

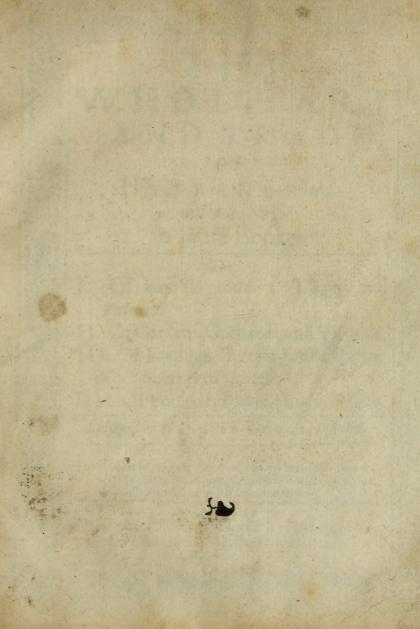






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S.	CONTAINED	
	In foure Bookes.	E
No.	Viz: I. Of Earable-ground, Tillage, and	200
600	Pasture.	
28	II. Of Gardens, Orchards, and VV oods.	200
	11 I. Of Feeding, Breeding, and Curing of all manner of Cattell.	S.
J	IIII. Of Poultrie, Fowle, Fish, and Bees.	
	Enlarged by BARNABY GOOGE, Esquire.	
	GENESIS. 2. 19.	
200	In the sweat of thy face shalt thou eate thy bread, till thou be turned againe into the ground, for out of it wast thou taken:	ZS
88	yea, dust thou art, and to dust shalt thou returne. LONDON:	S
	Printed by T. S. for Richard More, and are to be fould at his Shop in S. Dunstanes Church-	Castor and a state of the state
No.	yard in Fleetstreet. 1614.	ST.C.

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ANDTRADE

I. Of Earable-ground, Tillage, and Pafture.

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LONDON T. S. for Richard Office, and are to be fould at his Shop in S. Duallance Church-

TO THE RIGHT VVorschipfull, his very good friend, Sir William Fitz-Williams, Knight.



F fuch as have painefully and faithfully of long time ferued their Prince and Country abroad, doe most of all others deferue, befide their condigne reward, the benefit of a quiet and contented life at home, I know no man (good Sir William Fitz-Willi-

ams) that of right may better challenge it , then your (elfe : subo for the long time of your painefull Service, the truffse discharging of the Treasurership of Ireland, and your worthie gouermement, while it pleased her most excellent Maiestie to appoint you for the (ayd Realme her highnesse Deputie) have Jo behaued your selfe, as even your very enemies (whereof I know you had good store) have beene forced to give you, will shey nill they, your iust deserved commendation. I leave to remember your fundry and troublesome trauailes, your Gentlemanly minde , alwayes unwearied and unmated with what foener perill or hazard happened: I passe ouer (because I know you delight not in hearing your prayfes) that Honorable, and worthy for ever to be Chronicled, charge given upon the Oneale, at Monham, in the rescue of your misterably distressed and slaughsered companions, and Countrymen, of which there be lundry get remaining, that will attribute the bauing of their lines, (next 28 3

The Preface.

(next unto God) to the prosperous successe of your valiant enterprife: weither hach this your loyall feruise to your Prince and Countrie at any time beene accompanied without a feruent and zealous affection cowards the Almightie, the chiefest and onely beautie of all mans actions. Since thus (as I (ayd) your may instly challenge for the good service you have done in your youth, a place and time of rest and quietnesse in your greater yeeres, and that there is, in my fancie, no life so quiet, so acseptable to God, and pleafant to an honeft minde, as is the life of the Countrie, where a man, withdrawing himselfe from the miseries, vanities, and vexations of this fooligh and now too too much doting world, may give himselfe to the freet consemplation of God, and his workes, and the profit and reliefe of his poore diffreffed neighbour, to which two things we were ebiefely created, I thought it good to fend you bere (as a token and a seftimonie of my shankfull mind, for your fundry friend-(bips and curtefies (betted unto me) a rude draught of the order and manner of the faid Countrie life, which you may use (if it please you) for your recreation. And afterwards (if so yous shinke is meet) publish under your protection, to the commoditis and benefit of others. Fare you well: from Kingftonc.

Your affured louing friend,

BARHARY GOOSE



The Epistle to the Reader.



Haue thought it meet (good Reader) for thy further profit and pleasure, to put into English, these foure Bookes of Husbandry, collected and set forth, by Master *Conrade Heresbatch*, a great and a learned Counceller of the Duke of *Clenes*: not thinking it reason, though I have altered and increased his

worke, with mine owne readings and obfervations, ioyned with the experience of fundry my friends, to take from him (as ditters in the like cafe haue done) the honour and glory of his ownetrauaile : Neither is it my minde, that this either his doings, or mine, should deface, or any wayes darken the good enterprife, or painfull trauailes of fuch our Countrymen of England, as haue plentifully written of this matter: but alwayes haue, and do give them the reuerence and honour due to fo vertuous, and well disposed Genelemen, namely , Mafter Fitzherbert, and Mafter Tuffer : vvhofe workes may, in my fancie, without any prefumption, compare with any, either Varro, Columella, or Palladius of Rome, You haue here let downe befere you, not onely the rules and practifes of the olde auncient husbands, as well Greekes as Latines, whole very orders (for the most part) at this day wee observe, and from whom (if we will confeile the truth) wee haue borrowed the beft knowledge and skill, that our skilfulleft husbands haue : but alfo have ioyned heerewithall, the experience and husbandry of our owne husbands of England, as farre as eyther mine owne obferuations, or the experience of fundry my friends would fuffer mee. And although I have delt with many, both Graines, Plants, and Trees, that are yet strangers, and vnknowen vnto vs , I doe no whit doubt, but that with good diligence and Husbandry, they

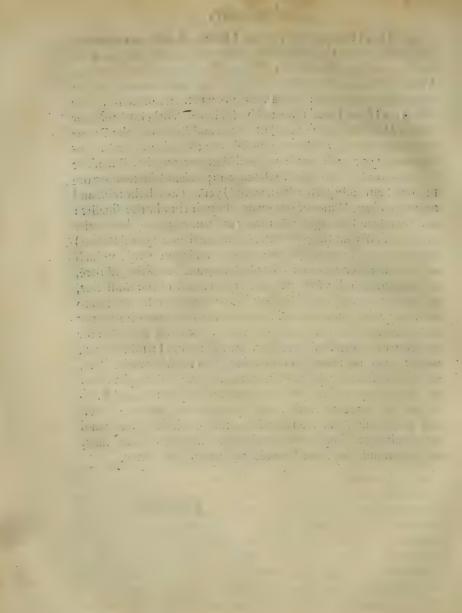
To the Reader.

they may in fhorttime fo be denized and made acquainted with our loyle, as they will profper as well as the old Inhabitants. It is not many ages agone, fince both the Peach, the Piflace, the Pine, the Cyprelle, the Walnut, the Almond, the Chery, the Figge, the Abricock, the Muske Role, and a great fort of others, both Trees and Plants, being fome Perfians, fome Scythians, fome Armenians, fome Italians, fome French, all ftrangers and aliants, were brought in as nouclties amonglt vs, that doe now molt of them as vvell. yea, and some of them better, being planted amongst vs in England, then if they were at home. I have also beene carefull about the planting and ordering of the Vine, (though fome of my friends would have had it omitted, as altogether impertinent to our countrie : because I am fully perswaded if diligence, and good hufbandrie might be vled) wee might haue a reafonable good Wine growing in many places of this Realme : as vndoubtedly we had immediately after the Conquest, till partly by flothfulnetie, not liking any thing long that is painefull, partly by Chull difcord long continuing it was left, and fo with time loft, as appeareth by a number of places in this Realme, that keepes still the name of Vineyards : and vpon many Cliffes and Hilles are yet to be feene the rootes, and olde remaines of Vines. There is belides Notingbam an auncient house called Chimell, in which house remaineth yet as an auncient monument in a great window of glaile, the whole order of planting, proyning, flamping, and preffing of Vines. Belides, there is yet allo growing an olde Vine that yeelds a Grape fufficient to make a right good Wine, as yvas lately proued by a Gentlewoman in the layd Houle. There hath moreouer good experience of late yeeres beene made, by two Noble and Honourable Barons of this Realme, the Lord Villiams of Tame, and the Lord Cobham, who both had growing about their houfes as good Vines, as are in many places of France. And if they answere not in all points every mans expectation, the fault is rather to be imputed to the malice & difdaine peraduenture of the Frenchmen that kept them then to any ill disposition, or fault of the foyle. For vyhere haue you in any place better, or pleafanter Wines, then about Backrach, Colin, Andernach, and divers other places of Germanic, that have in manner the felfe-fame latitude and difpofition

To the Reader.

fition of the Heauens that we have ? Belide, that the neareneffe to the South, is not altogether the caufer of good Wines, appeareth in that you have about Orleans, great flore of good and excellent Wine : whereas, if you goe to Burges , two dayes iourney farther to the South, you shall finde a Wine not worth the drinking. The like is (as I have heard reported by Master D. Dale, Emballadour for his Maieftie in these parts) of Paris, and Barleduke, the Towne being Southward, with noughtic Wines : the other a great waves farther to the North, with as good Wines as may be. But admit England would yeeld none fo ftrong and pleafant Winesas are defired (as I am fully perfwaded it would) yet is it worth the triall and travaile to have Wines of our owne, though they be the fmaller : and therefore I thought it not meet to leave out of my booke the ordering and trimming of Vines. It remaineth now (good Reader) that thou take in good part my trauaile and good will, which were chiefely employed to the pleafuring and benefiting of thee, and not to quarrell with mee, as is the manner of the most fore. for every fault and overfight that hath escaped my hands, nor to looke for any curious, or well meafured fule, vyherewith I am not able to fatisfie thee, and though I were, yet were it neither for the matter nor method necellary. And therefore I truft thou wile accept it as it is, fpecially confidering, that I neither had leifure, nor quietnetle at the doing of it, neither after the doing had ever any time to ouer looke it, but was driven to deliver it to the Printer, as I first wrote it : neither was I priny to the printing, till fuch time as it was finished. And therefore (though there be faults, and great faults in it) I am not to be charged with them, that if time. or opportunitie had ferued, would not have fuffered them.

Farewell.



A Table of all fuch principall matters and words as are contained in this Books, where m the first fide of the leafe is fignified by a. and the fecond by b.

A	en e te e	Amber.	105.b
		Auens, the vertues.	182.6
A Blaqueation of vines.	78.b	-	
Affrica, her fertilitie.	18.a	В	
Aglus indged happy by Apo	llo. 7.a	Bafyll.	62.6
Ambition to be moderated.	I.b	Barnacles growing out of tree	
Almond tree.	90.a	Bees delight in new hines.	172.2
Annise.	54.b	Bees lost, their repairing.	175.2
Angelica.	65.b	Beestame.	168.
Angelicasthe vertues.	181.a	Bees best to be bought, and ho	
Anthony the Saint, his answer	re. 4.a	Bees clustring, what betokenen	
Armaracia.	56.a	Bees bred of a Steere.	176.b
Abrecocks.	92.b	Bees how to be corried.	168.a
Aruncus, what.	136.b	Bees what angreth them.	173.b
Asse, her fouling.	118.b	Bees wilde.	168.a
Asse, the stallion.	119.b	Bees expelled by smoke.	168.b
Affe, his remedie for halting.	118.b	Bees Muses birds.	165.a
Affe, bis vfe.	118.a	Bees, plants pleasing them.	169.b
Asparagus, the berries.	51.b	Bees, plants burtfull to them.	170.a
Asparagus.	51.a	Beesto renine.	176.b
Axeltrees the best wood.	103.b	Bees if they breede not.	178.a
Ashes for doung.	19.b	Bees wilde, their taking.	168.a
Ashe groue.	98.a	Bees for chewers of weather.	166.a
Ashe tree.	ioi.a	Bees sit.	175.b
Apple trees, how to set.	83.b	Bees not to be removed in m	inter.
Apples, their kindes.	83.b		179.b
Apple lofts.	12.a	Bees in hollow trees.	168.b
Apples, their ripenesse.	84.b	Bees how to order.	178.b
		J 2	Bees,

Bees must stand neere the A	Aafter.	Bees harnest double.	174.a
2000 may june	169.a	Bees diseases, their preserving.	177.b
Bees, faire water.		Bees, when they begin to labour.	171.2
Bees attendance all the yeare.	178.6	Beesrest.	166.a
Bees hunted by hornets.	178.6	Bee the old master, what to doe.	176.a
Bees hurt by Eccho.	178.6	Beethe master, diners in one hin	e.172b
Bees, smoke good for them.		Bees, their pallaces.	165.a
Bees, to keepe from Butterflies.	179.a	Bees, their gouernment.	165.a
Bees, what hurts them.	169.a	Bees the Master, his making.	167.6
Bees, what doth them good.	178.b	Bees common wealth.	165.a
Bees, hurt Elme flowres.	177.b	Bee the Master restrained.	172.b
Bees, hurt by purge.	177.b	Beesto make.	175.a
Bees, better the Valley than th	e Hill.	Bees their standing.	166.b
	169.a	Bees removed for foode.	180.a
Bees to heale their difeases.	177.b	Boare and Bull common.	122.b
Bees their age.	176.a	Beets.	54.b
Bees clensing the hines.	178.b	Betony.	183.a
Bees sickenesse, the tokens.	177.b		183.a.b
Bees idle , their punishment.	166.b		\$ 101.a
Bees harnest or driving.	173.a	Bizontes.	130.2
Bees to drive, what smoake.	173.b	Borrage.	58.b
Bees meat.	169.b	Bullockes, their fatting.	123.6
Bees severall labours. 166.b.C			.a. & b.
Bees, the Master, where		Bullockes, their shape.	121.2
172.b.C		Buffes.	130.a
Bees swarming time.	188.b	Bullockes, their foode.	123.b
Bees hatching.	176.b	Bullockes halting, remedie.	126.b
Bees their watch.	166.a	Bullockes ill digestion.	125.b
Bees, the taking of the coames		Bullocks bitten with a mad do	
Bees, the drones,	167.a		.b.129.a
Bees, roming away, to restrain		Bullockes feuer, the cure.	126.b
Bees, roming away, the signes.	172.2		
Bees, their industrie.	165.2		123.4
Bees, how to finde.	168.b		
Bees their winter food.	171.6		126.2
Bees angry, to appeale.	174.2		123.a
Bees, the breeders.	167.a	- O.	127.a
			Bullockes

Bullockes fores mattring. 12;	.a, Cammelingendring with Bores. 120.a
Bullockes heele, hurt. 127	
Bullockes hoofe, hurt. 127	
Bullockes watring. 124	a Caution in buying of land. 44.a
Bullockes pasturing. 124	.a S. Tho. Chalener. 115.b
Bullocke, the taile. 120	a Courtiers, their gorgeous miserie. 7.2
Bullocke the Cough. 126	
Bullocke how to fetter. 123	1 0
Buliocke, the murrine. 124	b Chalke vsed for doung. 19.b
Bullockes lung-ficke. 128	.a Candels of trees. 104.a
Bullockes, the yellowes. 128	b Coales of wilde Oake. 103.a.
Bullockes liner ficke. 128	
Bullockes, the blaine. 129	.a Coales, what wood to be made of.
Bullockes the fprenges. 129	
Bullockes, the staggers and the dash	e. Carotes. 56.b
129	a Cheeje of huge bignesse. 139.0.
Bullockes piffing blood, the panteye	s, Cheese parmasin. 139.b
taynt, and gargife. 129	a Cheeje not to be made of beajtes that
Bullockes, for all discafes. 129.	
Blackthorne floures, the vertues, 180.	b Chestnuts. 90.b
Balme, the vertues. 180.	b Latoes answere touching breeding.
Buglosse. 58.	
Beane, the straw, and the offall. 31.	
Beech wheat. 29.	
Beech groue. 96.	
Beech. 97.	
Bull, common. 121.	0.01
Bull, his making. 121.	
Birdlime, the making. 105.	
Baytree. 89.	
C a link	
And the second second	Cypresse. 102.b
Cammell of Arabie. 120.	1
Cammellof Bactria. 120.	
Cammell, her foaling. 120.	
Cammelleopard. 120.	
Cammels ingender backward. 120.	Ta Gattell .
14	y 3 - Controls

Cattell keeping and tyllage, their f	Fellow- (Dogges, their kindes.	146.2
Ship.	106.a	Dogges kind to be regarded.	146.b
Cattell keeping, the antiquitie and	l mor-	Dog ges of wonderfull price.	145.b
thinesse. 106.b.1	107.a	Dog ges difeases, and remedies.	148.a
	12.6	Dog ges names.	147.b
0	103.a	Dog ges, their lytures.	147.a
Corke groue. 96.	16-b	Douehouse, building.	161.2
Corne-floore.	12.a	Dones, to keepe from the Haw	
	121.a	egar i seine an ei	161.b-
	121.a	Dones, their foode.	161.a
	121.a		.a & b
	122.a	Dones, their price.	159.b
	150.a	Dones, their kindes.	160.a
Cocke, a mooser to repentance.	150.a	Dones, to allure them to the	house.
	122.b	the state in the second second second	161.a
	153.a	Doues young, their feeding.	160.b
Cardiaca, his vertues.	183.a	Doung, the forts.	18.6
Cardus Benedictus, the vertues.	181.a	Doung new, best for meadowes.	19.a
Chickins hatched without the	Henne.	Doung old, best for Corne group	
	151.a	Doung best, the masters foote.	19.6
Chickins diseases, and remedies.	152.a	Doung for Vines.	19.a
Creffes.	55.a	Dounghill.	12.0
		Dwellinghouse.	10.2
D 6			
Datetrees.	93.a	s. e E	diam'r
Damsons.	92.a	Elme.	. 97.0
Dyll.	54.b	Elme, his vse.	104.a
	173.a	Eldar.	101.a
Dog ge the Starre, his rifing.	179.a	Elecampany.	61.b
Dog ges, toridde them of Tickes		Emperours of Neathards.	107.a
Dog ge for the house.	146.a	Endine.	53.a
Dogge for the fold.	146.a	Egges, their sorts.	153.b
Dog ge his age.	147.a	Eg ges, to be hatched.	150.b
Dog ges madde, the tokens.	148.a	Egges how to choose.	151.b
Dog ges tayle, the cutting.	147.a	Egges kept from thunder.	151.b
Dogges, their feeding.	147.6	Eye of the Master, fats the	
Dog ges colours.	146.b	and the second s	115.a
			· Flax

F		Graffing, diners forts.	69.2
Flax.	37.2		
Firre trees, their vfe. 98	3.b,101.a		71.a
Flowre gentle.	63.a	Gelliflowers.	63.b
Filbert.	\$9.a	Gourdes.	бо.а
Fruitfulne fe of diners country	ies. 18.a	H	
Figgetree.	102.b	Helecampany.	65.b
Fennell.	54.b		e. 16.2
Fenugreeke.	34.b		7.a
Fodder for Cattell.	35.a		mperours.
Fish delighting in mud.	164.a	A HAR E CALL	5.b
Fish delighting in grauell.	164.b	Husbandry, nurse of all other	· sciences.
Fishponds their fundry forts.	146.a	1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	6.a
Fishponds, where best.	163.b	Husbandry cosin-germane to 1	Wisdome.
Fishponds.	163.a	tinte Sherristan	6.b
Fry.	164.b	Husbandry, her nobilitie.	6.2
G		Husbandry, her antiquitie.	5.b
Garlicke.	. 57.b	Husbandry pleaseth God.	6.b
Galles.	105.a	Husbandry no base trade.	6.b
Garners.	40.b	Holly, the tree.	103.2
Goose pennes, their standing.	155.a	Hony coames, what fashion.	173.b
Goose liner of great bignesse.	156a	Hony coames.	166.b
Goose, her hatching.	155.b	Happy, who is.	7.b
Goose, their fatting.	156.a	Harnest for Oates.	39.a
Garden hearbes, the sowing.	50.a	Harnest of Hempe.	39.2
Garden the standing.	51.b	Harnest of Wheat.	39.a
Garden, what mould best.	49.a	Harnest of Rie.	39.a
Garden, dunging and digging.	49.b	Harusst of Rapeseed.	38.b
Gardens of great antiquitie.	45.b	Harnest of Winter Barley.	. 39.a
Garden a shambles.	46.a	Harnest of all other Corne and	l Pulje.
Garden without water.	47.0	and the second s	39.a
Garden ill, declares an euill h	uswife.	Hempe.	37.b
10 . 5 . 10 . 10 . 10 . 10 . 10 . 10 . 1		Hartichocks.	61:2
Garden, when to water.	47.b	Heaucus, their state for the grou	d.49.b
Graffing.	69.a	Heanens, their state for plantin	ng and
Graffing, the Season.	70.a	forving.	51.2
Graffing, a new way.	71.a	Horses age, how to know.	110.b
the state of the s	1	54	Horfe

Horse loneth troubled water.	114.b	Horses clothes.	115.b
Horfe his proportion.	- 114.a	Horse lesse hurt by drawing the	en bea-
Horse broken winded.	117.b	ring.	113.2
Horse forsaking his meate, the	remedy.	Horses wallowing, hole ome.	115.b
114	ha & b.	Horse hot, not to be watered.	116.b
Horse halting, the remedie.	116	Horse cold, to have.	115.a
Horses their colours.	IIO.a	Horse how to chose.	109.2
Horfes, the Cratches.	116.a	Horse suddenly sicke, the cure.	143.6
Horses foundring.	116.6	Hey making. 43	.a & b
Horses gald.	116.a	Hey making. 43 Hey sutting.	43.a
Horfe described by Virgill.	109.b	Hey, when to cut.	43.2
Horse windgals.	116.a	Husbands bestoreing of time.	2.b
Horseto be in health.	115.b	Husbandry commended.	5.2
Horse pronoked to stale.	115.a	Hog ge sicke, the signes.	143.a
Horsetyred, the remedie.	115.a	Hog ge mesled.	144.2
Horse having wormes, the sig	mes and	Hog ge sound, their tokens.	143.2
remedie.	117.a	Hogges their breaming and j	farrow-
Horse, to keepe from Flies.	117.2	ing.	142.3
Horse, when to be broken.	112.b	Hog ge sicke of the Quinsey,	and the
Horsesfeete, the cure.	116.b	Kernels.	143.2
Horse his rhume, the cure.	116.b	Hog ges, their gelding.	142.6
Horse mangie.	117.b	Hog ge, the fener.	143.2
Horse the vines.	116.b	Hogges, their herbes.	141.a
Horse pained in the belly.	117.a	Hogs difeases, & the remedies.	143.2
Horse, how long he lines.	III.a	Hogges lung-sicke, remedie.	143.2
Horse, holesome to tranaile.	.115.a	Hogges sicke of the milt.	143.a
Horsing of Mares, the time.	.111.a	Hog ges turne-sicke.	143.b
Horfes watring.	114.6	Hogges made to the horne.	141.b
Horses gelding.	113.2	Hedge dead.	48.a
Horses currying.	113.6	Hedge quicke preferd.	. 48.a
Horse, his ordering after tra	nuaile.	Hedge quicke, Sundry wayes	of ma-
	115:a	king.	48.b
Horfe his prouender.	· 114.a	Hennes for broode, their choise,	149.6
Horse his skowring.	113.6	Hennes how long in hatching.	
Horses generall remedies.	116.a	Hennes house, the standing.	154.a
	117.b	Hennes, how long in sitting.	
Horses stables.	1132	Hennes their feeding. 153	
	1.2		Hennes

Hennes how to fatte.	153.2		63.2
Hennes must have dust.	153.b		43.b
Hennes, what Egs to let unde	r.150.b	Land, neighbourhood to	beregarded.
Hennes to keepe from sitting.	150.b	A REAL OF A	44.2
Hennes the number to a Cock	c. 150.a	Land the degrees.	16.6
Hearbesfor pleasure & beau	tie.60.b	Land good, the tokens.	17.a
Hearbewhat for pastures.	42.b	Liquirize.	59.2
Hippomanes.	III.a	Letise.	52.a
Horda, what.	121.2	Lettuzins, a furname.	46.2
Hysope.	62.b	Lentiles.	33.a
Hony of the Heath.	174.b	Leekes.	57.2
Hony making.	175.b	Lyndtree.	104.2
Hony the kindes.	174.b	Lecheric, what hurt to the	ody. 137.2
Hony the best.	175.a	A seal of the second second second	
Hony how corrupted.	175.a	M	
Hill how to plow.	20.a	Maple.	103.a
Hines of Bees.	166.p	Maple bordes.	104.a
Hines the entry small.	167.a	Marioram.	62.b
Hines fedde with birdes.	179.a	Moowes for Corne.	12.b.
Hines their mouthes.	179.b	Mallow.	58.a
Hines decayed, their repairing.	175.a	Manna.	171.6
and the second	Prairie 1	Melcan.	140.2
1	12. 18	Mellones.	59.b
Implaistring.	71.2	Mellon pompeons.	59.b
Inoculation.	71.a	Medlar.	86.a
Instruments of Husbandry.	11.a	Mares, whether they should	becomered
Italy, why called the Orchard.	18.a	yeerely.	112.a
Italy, why so called.	121.2	Mares with Foale, how to a	ye. 112.b
Iuniper	102.0	Mares time of Foaling.	112.b
Ioab.	107.a	Mares conceasing by the wi	nde. 111.b
Impes their removing.	73.a	Mescelin.	31.2
Imagestbat sweat.	102.b	Meddow, new to make.	42.b
Imagestbat sweat. K.		Meddowes, why so called.	41.b
Kitchin,	II.b	Meddowes, their ordering.	42.a
King.	115.b	Mowles to catch and destro	y. 66.b
E. S. e. Aber.	editor !!	Mast; what.	97.a
Larsb.	101.b		97.a & b
61 C3	-		Maft,

Mast, the vse.	97.b	Of Horses.	108.a
Mastholme groue.	96.a	Of Colmortes.	53.a
Milke blacke.	138.6.		130.a
Milke, to trie.	138.5	Of Butter.	138.b
Milke, the ordering.	139.2;	Of Cammels,	120.a
Milke, the difference.	138.a	Of Dog ges.	145.6
Milke, the whey.	139.a1	Of Goates.	136.b
Milke to purge Melancholy,	and all,	Of Cheese.	139.a
other humours.	138.b	Of Wax.	175.a
Milke to purge the Dropfie.	138.6	Of Pigions.	159.6
Milke to purifie blood.	138.b	Of Cats.	148.b
Milke to loofe the belly.	138.b	Of Hennes.	149.b
Moone observed in sowing.	51.a	Of Pot hearbes.	.51.a
Moone observed in dounging.	43.a	Of Gardens.	49.b
Mynt.	62.b	Of Turkie-cockes.	158.a
Myllet.	31.a	Of Milke.	138.a
Mulbery tree.	88.a	Of Pulse.	·31.b
Mulbery the wifest tree.	88.a	Of Hony.	174.a
Moiles, their colonor.	.119.a	Of Harnest.	-38.b
Moiles doe breed.	119.a	Of Moyles.	119.2
Mile, to destroy.	66.b	Of Sheepe.	130.2
Mosse to destroy.	42.a	Of Shepheards.	144.b
Mustard seede.	55.b	Of Egges.	153.b
Myrtle tree.	63.a	Of Peacockes,	157.a
N	e statula	Of Blood letting.	118.a
Nauens.	56.b	Of Orchards.	66.b
Neatheards made Emperours.	107.a	Of fatting of Swine, salting,	and pre-
Neighbourhood. 8.b.e	5 44.b.	Serving of Bacon.	144.a
0	a mail	Of Seedes, and their sorts.	50.b
Of chusing of ground.	16.a	1 0 0	18.6
Of Corne ground.	16.b	Of Smine.	140.1
Of Duckes.	156.a	Of. Waods.	59.b
Of Bees.	165.a	Of good Ground.	17.2
Of Geese.	154.b	1	. 25.a
Of Plowing.	20.2		162.a
Of Affes.	118.a		1 3.a
Of Bullockes.	120.b	Of the Vine.	74.a
10.43		A second se	Orenge

Orenge alwayes bearing.	87.b	Plants, their dissersitie.	72.0
Orenges, their planting.	88.a	Planting, the time.	70.a
Oline grape.	81.b	Plane tree.	101.2
Oke groue, the planting.	96.b	Poplar groue.	98.5
Oke of a wonderfull bignesse.	97.a	Poplar his vse.	101.a
Oke his vse.	104.a	Poplar, white and blacke.	98.6
Oline tree. SI.ac	1.03.a	Piggessthirtie at one farrow.	142.a
Olime ripe, the tokens.	82.a	Purstane.	58.b
Oline wilde.	103.a	Plometrees, their kindes.	92.a
Oline gatherers law.	83.a	Plome tree.	92.a
Order, his commoditie.	11.b	Pifan.	27.b
Oysters.	164.b	Pullets.	150.a
Oyster ponds.	164.b	Pomegranate.	86.b
Oyle, the making.	83.a	Pomegranates have like num	her of
advantaria anton	in the	graines.	. 87.a
Per P et deg		Peares red.	85.a
Panicle.	30.b	Pears tree, his planting.	85.a
Par(nep.	56.b	Peares, how to keepe.	85.b
	107.2	Pearetree.	85.a
Plowing.	20.a	Penygrasse, his vertues.	181.6
Plowing, the season.	21.a	Pastures.	43.b
Plowing in the night.	21.b	Q	
Plow, his parts.	20.a	Quailes.	162.b
Poppey. 37.b.&	55b	Quince tree.	85.b
Peach tree.	92.2	Quinces, when to be gathered.	86.a
Peach with an Almond curnell.	69.b	Quinces, how to keepe them.	86.a
Pestilence in Cattell, whereof. 1	124.b	Quicksets, their planting.	48.a
Perfley.	54.b	Quickset.	48.a
Pitch tree. 98.b.	. 90.a	Quaile, mother.	166.6
Pimpernell.	62.b	R	
Pine tree.	98.b	Radish, his vse.	55.b
Pistaces.	89.a	Rammes, which to be bought.	130.b
Pitch.	98.6	Rape. 56	acb
Plants prospering with cursing.	52.a	Rape harnest.	38.6
Plants prospering by theft.	52.a	Rape of great bignesse.	28.b
Planting, the Moone observed.	70.a	Raperoote.	28.6
Plantes steeped.	72.b	Radifs of great bignesse.	55.b
		a same in the	Radify

Radifb roote.	55.b.	Sheepe, what number to be kept	
Remedie against Gnattes.	66.a	Sheepes tailes, of wonderfull b	ignesse.
Remedie against Wyuels.	41.2		130.6
Remedie against Catterpillers.	66.a	Sheepes legs broken, the cure	136.a
Rozin.	105.a	Sheepe yeerely to be drawen.	130.b
Reazins (mall.	59.a	Sheepe, their winde perished.	136.a
Romulus nurced by shepherds.	107.a	Sheepe having the fener.	135.b.
Rose.	64.a	Sheepe, their great encrease.	130.2
Rosemarie.	62.a	Sheepe, their forts.	130.b
Raspis.	59.a	Sheepe, to keepe in health.	135.b
Rew.	52.a	Sheepe, the fould.	135.b
Rennet for Cheefe.	139.a	Sheepe skabby chind.	135.b
Raking.	24.a	Sheepe their feeding. 131.	
Rye.	26.a	Sheepe, their lambing time.	131.b
Rye harnest.	39.a	Sheepe, the murrem.	136.a
Rich, how.	7.b	Sheepe skabby.	135.0
Ryce.	30.b	Sheepe coates.	133.6
S	-3	Sheepe shearing, the time.	134.b
	171.b	Shepheards refemblance with .	Princes.
Saffron.	61.b.	1.9 m	107.a
Sauorie.	62.b	Shepheards care in feeding.	133.2
Setterwort, and his vse. 65.b :	117.b.	Sluses for Fish.	163.b
	125.a	Sage.	162.a
Seruants their looking to.	14.a	Sow farrowing, her age.	142.a
Seruants health to be regarded.	14.a	Sommer seedes.	24.b
Sauine.	66.a	Seedes, their comming vp.	50.b
Sallets.	46.a	Seedes, what for every ground	
Sorell.	45.a	Seedes, the choife.	23.b
Sauce of Apples.	84.b	Sowing, the order.	23.b
Sauce of Peares.	85.a	Sowing, the season.	24.b
Sheepe pild.	134.b	Seminoyle.	31.a
Smalladge.	54.b	Sefamum.	31.a
Sellars.	12.4	Seruisetree.	· 86.b
Sellars and Larders.	12.a	Shippes, of what tymber.	103.a
Sheep ficke of the lungs, the cure	.136.a	Solitarie life, his vse.	2.2
Sheepes cough, the cure.	136.a	Spinage.	54.a
Sheepe, their time of bloffoming	131.b	Sponge.	51.b
0-0			Sperie.

Sperie.	36.	b Trees removed, their ft	mding och
Some, foure moneths with Pig	-	b Trees helped with vrine	anding. 94.b
Swine-sties, their standing.	142.	1	. 95.a
Shepheards of Switzerland.	145.	a Trees their fat.	
Sheepe delight in Musicke.	133.	Trees to Saue from Mist	104.b
Sheepe, few, and well fedde.	131.		
Sheepe, of what age, and how	-	. Trees, their flesh.	95.a
	130.1	Trees, the skinne.	104.b
Sheepe, kept abroad.	14.		104.b 67.a
Sheepe, when to buy.	131,8	Trees bearing fruit, their	Corte Gob
Sheepe couered.	134.t	Trees to ripe timely.	
Sheep having swallowed a Hor		Trees not bearing, the rea	95.a
his cure.	136.2	Trees, their distance in sta	nedie. 95.a
Scabious, the vertues.	181.b	, , , , , , , , , , , , , , , , , , , ,	inding. 94.a
		Trees standing Santyer n	g. 94.b' pife. 68.b
Т		Trees standing Checker w	ife. 68.b
Tymber for building.	103.6	Trees their bowes.	104.b
Tymber for pumpes, and water		Trees, their order for	reaffing and
103.b. G.		planting.	70.2
Trees, the North fide mosfy.	100.b	Trees, their blood.	104.
Trees of knowledge, why created		Trees launced.	49.b
Tree foreshewing his fall.		Trees, their seede plot.	. 72.b
Tree neuer without fruit.	86.a	Trees their kindes.	68.b.69.a
Tree the wileft.	88.a	Trees their dounging.	93.b
Tree neuer without fruit. Tree the wiseft. Trees best for tymber.	100.b	Trees their dropping.	68.b.94.b
Trees how to keepe from wormes.	. 85.a	Trees their lone.	92.b
Trees springing best of the seede.		Trees their remoning.	94.b
Trees soone growen, the fruit		Trees their veines.	104.b
not.	93.b	Trees their wennes.	103.2
Trees graffed in the stocke.	70.b	Trees their shadowes.	69.a.94.a
Trees graffed betwixt wood and		Tymber for Plowes.	103.b
0 11	69.a	Tymber for water workes.	104.2
Trees whereon to be graffed.	69.b	Tymber for bowes.	104.a.
Trees when to be proined.	94.b	Tymber for Bordes, for Ax	
Trees fpring flowly of the feed.	89.a	Haftes and Handles, for	
Trees alwayes greene.	67.b	Lances, for Tables , Shi	
Trees to be pulled.	99.b	gers , Sheathes , Pullies	
•			Beumes
			and the second se

T	he.	Ta	h	e.
	110	TN		

Beames. 103.a.c.b	104.2	W	
Tenants changing, not good,	Their	Wormewood.	65.b
labour more to be regarde	d then	Wood for Cuppes.	104.2
their rent, their ordering.		Winter graine the best.	27.2
Thrushes.	162.b	Wheat fijteene dayes in blade,	
v		in flowre, and fifteene in ripin	
		Willow groues.	99.a
Veronica, bis vertues.	182.2	Willow his vfe.	103.b
T'ernish.	105.b	Willow the kindes.	103.b
Vine plants, which, and how	to get,	Wood cutting, the feafon.	100.2
their keeping, their length. 77.		Woods coppised.	99.b
Ume plants, their planting.	77.a	Woods coppifed their severing.	100.2
Fine, bis easie busbandry.	78.b	Woods for Mast.	97.2
Dintage.	77.a		he Ra-
Vineyard Stony.	76.a	manes.	96.a
Vine the plucking of his leaves.	So.a	VFoods milde, their fruits.	96.a
Vine his propring.	80.a	VVbeat harnest.	39.a
Dine bis first plant.	74.a	Wheat the kindes.	25.b
Tine bis wonderfull encrease.	74.b	Wheat and the Vine flowrett	
Vines but late in Germanie.	75.a		° 26.a
Vines yoked.	75.b	Wine of Apples.	84.2
Fines guitered.	75.b	Wine of Peares.	85.b
Fines mingled, not to be planted	. 77.2	Walnut tree, his vie.	103.2
Vines how to frand.	76.b	Walnut tree for esperset b his fall	
Fines planted their ordering.	75.b	Wooles the best.	134.a
Vines how to be dunged.	78.b	Water Betony, his vertues.	183.a
Tines, his friend bip and hatr	ed with		
certaine trees.	75.b	Y	
Tine when to plant.	77.a	Yew tree, his vfe.	104.2
Vine his graffing.	.77.a		
Vine who fust found.	.74.b	Z	
Fine when he flowreth. 26.28		Zea.	27.b
	75.a	Ziziphos.	89.2

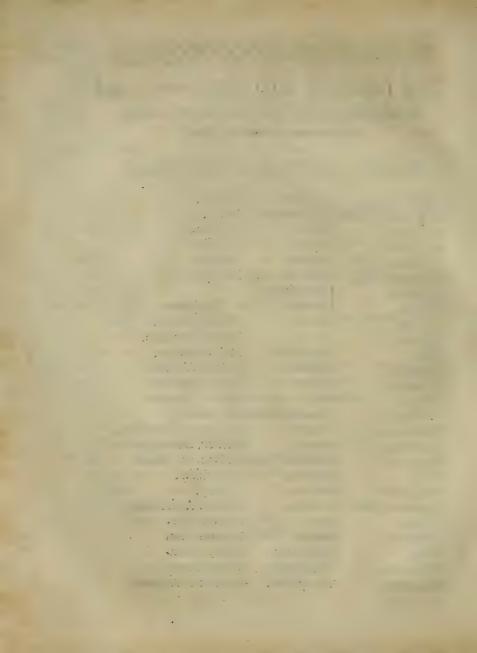
Finis Tabulæ.

Contraction Contractions

The names of such Authours, and Husbands, whole authorities and obseruations are vsed in this Booke.

The Bible, and Doctors of the Church.

	Hesiodus.	Tragus.
	s Hippocrates.	Varro,
Athenæus.	Homer.	Vegetius.
Anatolius.	Horace.	Virgill.
AlexanderAphroc		Vitrunius.
Alexander Neap.	Iulius Firmicu	s. Xenophon.
Appuleus.	Iulius Pollux.	
Ægineta.	Lucian.	Englishmen.
Elianus.	Macer.	S. Nich. Malbee.
Budaus.	Martiall.	M. Cap.Bingham.
Cato.	Mathiolus.	M. Iohn Somer.
Cardanus.	Nicander.	M. Nical.Yetzwert.
Caffianus.	Oppian.	M. Fitzherbert.
Celfus,	Ouid.	M. Will. Lambert.
Columella.	Petrus de Cresc	M. Tuffer.
Conflantine.	Plato.	M. Thom.Wherenhall.
Democritus.	Platina.	M. Rich, Deering.
Didymus.	Both the Plinic	s M. Hen. Brockhull.
Dio.	Plutarch.	M. Franklin.
Dioscorides.	Polibius,	H.King.
Diodorus Siculus.	Ruellius.	Richard Andrewes.
Faccius.	Solon.	Henry Denys.
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Heliodorus.	Theophrastus,	Phillip Partridge.
Herodotus.	Thucydides.	Kenworth Datforthe
	and the second se	***





The first Booke of Husbandry: Entreating of Earable-ground, Tillage and Pasture.

Cono. Rigo. Metella. Hermes.

CONO.



E thinketh I heare a neighing and trampling of Hoyles without, goe Hermes, go know what Arangers there are.

HERMES. Sir, if my fight faile me not, it is Rigo, the principall Secree tary.

METELLA. A godly matter fcarce you have bene two dayes at home, and now you muft be fent toz againe to the Court, perhaps to be fent abzoad on fome ems baffage.

CONO. Bod forbid : judge the belt, it map be be comes to for me of curtefie and friendship.

RICO. Ah maifter Cono, Jam glad J have found you in the mioft of your country pleasures: surely you are a happy man, that Chifting your felfe from the turmoiles of the Court, can picke out to quiet a life, and gluing ouer all, can fecretly he hid in the pleafant Countries, fuffering bs in the meane time to be tok with the cares and businesse of the common weale.

CONO. Surely I mult confelle I haue taken a happy way, if these awas of the Garth loould luffer me to enjoy such happis nelle, that have bequeathed the troublesome life of the Court to

The first Booke, entreating

to the bottome of the fea. But what : doe you intend, to being me againe to my old troubles, being thus happily difcharged.

R 1 G 0. Pothing leffe, though I would be bery glad pour fhould not to haffilly fostake the Court, nos ris your felfe from the affaires of the Common wealth. Pour know we are not bosne to live to our felues, nos at our owne pleasures: but fos our country, our Common-weale, & flate where to we are called. There cannot be a wosle thing then fos a man to suffer his Country fostaken, to come into the hands of billanous perfons, and to reioyce with himfelfe, that being out of Cuufhot, he hath left the harly burly of gonernement. And though Cato had no need of Rome, pet Rome and Cato his friends had neede of him.

CONO. I grant pop, as long as peres and frength will beare it, we are bound to ferue in our bocation: but as you your felfe are driven to confelle, there is fometime a reafonable caufe of misuing over. Luculius is highly commended, that while his body was firong a lufty, he applyed himfelfe wholy to the feruice of his country, a that after his honozable fernice both abroad and at home, in the end he got himfelfe quictly againe to his boke. And Scipio who after he had conquered both Carthage & Numidia, was content rather to leave of & reft himfelfe, then to bo as Marius . did, whe after to many bidories and atchined honeurs could not content bimfelfe when he was wel, but puft by with bnmeafures able defire of glozy & gouernment, would in his old age contend luith yong men : whereby he brought himfelfe at the length to moft miferable miferie. Surely Cicero toke a better way by much, when after the ouertizolo of Gatelins confpiracy, he rather contented himfelfe to live quietly at home, then by ambitious ine termeddling with the contentions of the Common-wealth, to being himfelf in danger of his life. The befire of bearing rule in a common-weale, is to be moderated with a beundeb modeffie, fuccially in this age of ours when Courts are fubica to fuch ene. uics, hatrets, flatteries, flanders, ceuctous & ambitious Belires, and where no place is left for vertuoulnes & Chriftian fimplicts ite. Thele are the things that droue Socrates & Plato from their rommon weales, a bolikelwife kepe me, being now of god yeres . and fickely, the Court forlaken, in this my page cottage at home. RIGO.

Lucullus.

Scipio.

Cicero.

of Earable-ground and Tillage.

RICO. Pea, but age is no fafficient excule for pouto leave the gouerning of your Country. Dou know, iera view Brief vepoy toy, the labour of pound men & the counfell of oid men.and how those common-weales are fafelielt alwayes guided, where old mens heads, and young mens armes are furring. Father Neftor got great commendation for his counfell at the fiege of Neftor, Troy, where as Pelcus and Lacrees were defpiled and accompte ted for bench-whiltlers at bome.

CONO. Some are tickled with glozy: fome with gaine. gifts. & rewards, retaine the cockrowen Courtiers, yea fuch as hane one of their feet already in the grave. Row if we would content our felues with this life, & giue our felues to the true & perfect life

In Princes Courts we fhould not gape nor gafe,

Nor ill succeile in futes should vexe our minde : No vaine nor fond deuse our eves should dafe.

Nor lewd affection should our fancie blinde. All fuch things fhould be left and layd alide. Now lines alas each out of order quite : And to our fhame the time away doth flide.

All fecke to liue, but none to liue vpright,

As the Doet crcellently well writeth in his Epigram, it were the part of a mad man.oz a corcombe, to run headlong without any profit into banger, when as he may live gooly & quictly at bome without all trouble, as our olde fathers were wont to boe.

RIGO. It is bery true: the Poet accompteth bim bleffed to whom this life can happen. But in the meane time you are alone and lead your life with beafts, lolots of the Jountry, and tres, that have fpent all your time before among wife and has nourable perfonages. Socrates affirmeth wifebome to be lear Socrates. ned in Cities, and not among bealts and tries.

CONO. Socrates his indgement, though 3 will not gainefay, pet it appeareth by his disputations with Ischomachus in Xenophon, that be did not difalow the Country mans life. And as for my living alone, it almost hapneth here to me as Cicero report teth Scipio to fay, that he was never leffe alone then when he was alone: for being alone, I have continual conference with the gras uelt a wileft mentifoz sither 3 apply mp feife wholp to the facred Diacles

The first Booke, entreating

Dracles of the Prophets and Apofiles, who teach the true mile Dome, by which both Bings rule, and Biners gouerne, and by which our foules (which we chiefely ought to regard) are feb. which allo how buto be the perfect way to that everlafting Court aboue: or luben I lift, I have the company of the great tof Painces and Monarchies of the World, with whom & cons. ferre of the doubtfull fate & gouernment of Common weales, in reading the Diffories and Chronicles of the world, travele ling as it were, throughout all nations, or reading the workes of fuch as write in hulbandrie, Foccupiemp minde in the behole ding the wonderfull workemanthip of God in Tries, Blants. and Beaffs, whereby in the Creature, Jacknowledge the Cree - atoz. And befides thele dumbe companions, my friends come fometimes to fie me, fometimes Gentlemen, fometime Pobles. men, fometime the Prince himfelfe bouchfafeth to bifit mee : fo that there is frarcely any day but that fome come buto me. fome for their pleasure, some for god-will, & some for their bulie nelle: for to my friends and my neighbours. I neither deny my counfel, noz my trauel. Therefoze it is bery erpedient that and choile be mape of Lawiers, & Difcret men for the Countrie, als wayes prouided, they give their counfell fre & without wages. Bany times belide, you from the Court lend me hither proceffe and arbitrements to be trice before me. Thus have 3 in the Countrie fweter and pleafanter company then you have either in the Court oz Citie.

R 1 G 0. Dell me then 3 belæch you, how you bestow your time, and how you are occupied all the day, foz 3 doubt not but you doe as much as in you lieth to spend the time as prostably as you map.

CONO. I will tell you throughly, and not diffemble with you, if you will give me the bearing, and to begin, I will ble the words and veries of the forefaid Poet, though in other his writings fearce honeff, yet in this speaking very grave & wile.

First serued on knees the Maiestie diuine,

My feruants next and ground I ouerlooke : To euery man his taske I doe affigne,

When this is done, I get me to my booke. .

The vse of a solutarie life,

of Earable-ground and Tillage.

I ble commonly to rife firft of all my felfe, fpecially in Some mer, when we loke the healthfullest & fwietest time with flugailmeffe. Ariftotle accounteth earch rifing the beft, both for health wealth, & Audie. In the winter if I be loath to rife, if eve ther the unleafonablenes of the weather, og fickenes caule me to keve my bed. T commit all to my Steward, whole faith & bilis acuce Tam fure of whom Thave fo well inftructed that T may fafely make him my deputie : I hauealfo Euriclia my maid, fo Isilfull in hufwifery, that the may well be my wines fuffragan. thefe twaine we appoint to fupply our places: but if the weather and timelerue. I play the workemafter my felfe. And though I have a baplife as fluifull as may be, vet remembring the old fave ing, that the best boung for the field is the Matters fot, the best The best provender for the horse the Datters eye, I play the overfær my doing for felfe. That it is hollome to rife carely, I am perfwaded both by ground is the counfel of the most grave Whilofophers, and by mine owne the maller experience. When my feruants are all fet to worke, and every foot. man as buffe as may be, I get me into my closet to ferue Bod. and to read the holy Scriptures: (for this order I alwaves here. to appoint my felfe every day my talke, in reading fome part eis ther of the old Teltament oz of the pelo:) that done. I write oz read fuch things as I thinke molt medful, or difpatch what bulie nelle fo ever I have in my house, or with futers abroad. A little before dinner I walke abroad if it be faire, either in my garden. or in the fields, if it be foule, in my galery: when I come in, I find an eage a chicke, a piece of kid, of a piece of beale, filh, butter, and fuch like as my foldes my yarde or my datey and filbyonds will pield: fometime a fallat, og fuch fruits as the garden og ogchard doth beare : which viduals without any charges my wife usouiboth me luher with I content nup felfe al wel as if I had the daine tielt dilh in Europe : I neuer lightly fit aboue one houre at my meat: after dinner 3 palle the time with talking with my wife, my fernants, or if I have any, with my abelis: I rife & walke as bout my ground, where I bielo my worke men, my Waltures, my Dedolves, my Come, and my Cattell. Wilhen I am in the Tountrie, I goe every day, if the weather be god, and no other areat bulinedle, about my ground: if not every day, at the leaff

Direc

3

The first Booke, entreating

once in floo or their daves as often as I come to the Cifie from the Countrie, I doe the like, to buder Band how my ground is hulbanded.and what is done, what budone: neither do 3 cuer go about it, but fome god commeth of my travaile. In the meane while I behald the wonterfull wifedome of Pature, and the incompachenfible working of the most mighty God in his creas fures. which as Cicero truly affirmeth, is the belicate & foo of the quell.lib 1. Soule. a the thing that maketh bs come niereft unto God. Here waich T with my felfe, the benefits and wonderfull weakes of Cod tubo beingeth forth graffe for the Cattell, & greene hearbe for the ble of man, that he may bring fod out of the carth accors bing to the Walaime. Dere he preacheth to me.

. The fruitfull Earth that tild in fundry wife, vnto the eyeher goodly fruits doth yeeld : The Violets sweet that each where thicke doe rife. and fraine with purple die the pleafant field, The field with hearbes, the hearbes with branchesb: zue, The glittering flowers that fhine like flarres of light, And fpringing falt disclose the grace they have.

Each hearbe with fundry flowre most fweet in fight. Withat workeman is there in the world, that is able to frame or counterfeit fuch heaueniv works. Who could of a flender graffe make Wheat or Bread, and of a tender thrigge bring forth to nos ble a licour as Wine: but only that mighty Lozd that hath creas fed al things bilible & inuicible ? With thele lights to I recreate my minde, and give thanks buto God the Creator and conferuer of all things, for his great and creeding godnes, I fing the long, To thee. DLord, belongeth praifes in Sion, oz, Braife theu the Lord Omy foule, te, befeching God to bleffe the gilts that he bath given is, through his bounteous liberalitie, to enrich the Ficios, and to profver the Come and the Graffe, and that he wil crowne the pure with his plenteoulizeffe, that we may enjoy the fruits of the earth with thankelgining, to the honour of him, and the predit of our neighbour. Then returning home, I goe to write ting or reaving, or fuch other bufines as 3 haue: but with fludy, or invention, I never meddle in their houres after I have dined. I suppe with a finall pittans, and after supper I cyther feldeme

Academ.

Pfal. 104.

4

or neuer waite or read, but rather palle the time fieing my fiene come home framthe fie.o, + my Dren dragging home the plow with weary necks, in beholding the pleafant pattures fination finel ing about my houle, or my heares of cattell lowing hard by me: fometime I lift to reft me buder an old Bolme.fometime boon & griene graffe, in the mean time p. ffeth by me the pleafant River, the Fream, staning from the lyings with a comfortable noife, oz elfe walking by the Kinerfide, oz in my garden, oz nereft paffures. I confer with my wife or fernants of huibander, ape pointing what I will have done : if my Bailiffe haur any thing to fay if any thing be to be bought or fo'd: for a god huf band , as Caro faith, mut rather be a feliar then a buyer. Somtimes (fpects A good ally in winter) after lupper, I make my Binifter to tel fomthing husband out of the holy Scripture, oz elfe fome pleafant flozy, fo that it multracher be honeft & godly, and fuch as may erifie. I wo or three houres af, be a tellar be honeit & gooly, and muy as may be me. I two of the bolies and then a fer supper I get me to bed, and commonly, as I faid before, the buyer. laft in the houle, ercept my Chambelaine and my Steward.

R 1 c 0. In the means time being farre from the Church, neither can you heave the Sermons, not be prefent with your wife and your houlehold at feruice : for your owne part, though ye may supply the matter with reading, yet your wife and your feruants can not so doe.

CONO. For my part (without baunt be it fpoken. 7 haue feruice every day at certaine appointed houres, where preacheth to me baily the Dophets, the Apolles. Balil, Chryfoltome, Nazianzen, Cyril, Cyprian, Ambrole, Auften, and other crcellent preachers, whom Jam fure. I beare with arcater profit.then if I hould heare your fir lohn lack-latines, and folify fellowes in your Thurches. By wife allo being given to reading, readeth the 15 ible, & certaine Plalmes, tranflated into our olune tonque, if there be any thing to hard or darke for her. I make her to bus Dertrand it: befides, fue hath private pravers of her ofwne that foe vleth: in the meane time Thave one that woon the holy daies (if the weather or our busines be furh as we can not go to church) readeth the Golpel, teacheth the Catechilme, and ministreth the Sacraments when time requires ; but in the Sommer time, if the weather be not burealonable, we goe alwayes byon the Sandaves 94

Sundaies and feftinall daves to our Parify Church, where the heare our Curate, and receaue the bleffed Communion : as for mp houschold, I being them to this order, that they alwaics forme Bab befoze their going to worke, s at their comming to meales. ing of faint It is Waitten of Anthonie the Grintiz, that being bemannbed of a certaine Philolopher how he could in the folutaric wilderneffe Anthony.

The fay-

without any bokes, occupie himfelfe in the fludie of Divinitie : he aufinered, that the whole world ferued him for Lokes, as a well furnished Library: in which be alwayes read the wonder. full workemanihip of God. which in every place flood before his eves. In the like fort have I my haufchold feruants well infrus acd in the chiefe arounds of true Religion. who leaning to their bocation and innocencie of their life, not caried away with the baine intifements and pleafures of Cities, to behald the Maies fic of Cod in his workes, and honor the Creatour in his Treas fures, not onely byon Sundaves, but curry day in the riere, where they may also heare the little birds, and other creatures. in their kindes, letting out the glozy and Maieffie of Gol.

RICO. Dou fame to tell me of a Schole of Divinitra not of a Bulband-mans cottage: this was the very order of the Bas triarkes, and the monafteries in the Primative Church.

CONO. Indete Chryfoltome would have all Chriftians. Homil. 56. maxied folkes and unmarico to lead their lines according to the vpon the rule and order of Monkes : but of fuch Monkes as lived in thefe 16. of Mat. dayes . not fuch god-feilolves as ours be now : for the profets and in otherplaces. fion of a Monke in that age, was no other but the life of the pus

reft and perfecteft Christians, which kinde of life the olde Patris arlies , as the Scripture due witneffe, did lead.

RIGO. J oftentimes wondied, that having to godly a houle and to well furnished in the citie as you have, what you meant to defire rather to divell in the Countrie : but now that I for the. god order of your life, I trane to wonder any longer.

CON Of. It is naturall to me, and left me by my parents, to delight in hufbant 29: for my Father, mp Grandlather. mp great Gandfather , and as farre is I can fetch mo petiare , all my Aunceftours were occupiers of hulbandyy, and were all borne and died in this house that you fie.

RIG: O.

RIGO. Fremenbernot long fince, being in bufinette with the Chauncelloz Hyplographus, a fober man, your neighbour. and one that delights in hulbandry, it was my chaunce to fe your father, furely a man would have taken him for old Lacrees in Homer, or vather for Abraham, or Ilaac, and as the Chancellor toid me, he was foure-fcore and ten vieres olde : but fo faire hie bare his age, as that I toke him to be fearce fiftie his memory and indgement firmed to ferue him wonderous well he would talke of the orders of the Countrie, of the antiquities there as bouts of the Rozies of the Scripture fo fluiting and elonuently. as I was wonderfully in love with him : heehad the Wauhets and the Guangeliffs at his fingers ends, fo that I faw the nobie men had him in effination, not without great caufe.

Cono. Indiebhetwhe fuch delight in the holy Scripfures. as no day paffed him without reading fome part of them: he bled to goe commonly every day to the next Parith Church, neither would be mille any Sermon that he could heare of, he brought both Breacher and Brieff into order . and cauled them to frame their lives according to the rule of the Golpell.

RIGO. Dou paint me here the patterne of a Bilhov. oz an ouerfer : inded the moft part of thele Wiefts had need of fuch overfærs to reftraine their couctonfneffe, the fpring of all their abulcs.

CONO. To returne to my quieines, n2 my Bulbandzy, from whence I digreffed: Doevou pet maruale how I can delighting feife with this to honeft and profitable a quietnes, then which in the judgement of the holicff & will ft men, there is nothing more honeft not better, neither is there belide any trade of life more The come miet for a Bentleman, nor trauale more acceptable to Gob, then mendation is the tilling of the ground. The people in the old time (as Cate. a of Hufman of great wifedome, fa teacher of hulbanday doth with (fe) wandry. as oft as they would give a man the name of an honeft man, they would call him a god hufband comprehenting in that name as much commencation, as they could give him : bead. smeff Emperours mighte hings and Emperozs were no whit alhanted to profess and Kings, this trade, as Xenophon reporteth of king Cirus: the ike writeth of Hul-Quintu. Cuttius of Abdolominus, Numa the king of the Romans bandry. bare.

bare a fingular affection to hufbander.for that hee thought there was no kind of life fo fit to maintaine cither peace of warres.oz for the provision of a mans life, being rather a giver of god life, then riches. Moresuer, Hiero, Philometor, Attalus, Arch laus, and a great number of Idiners more, were delighted with the profettion of hufbandap: this knowledge is also highly comment Ded by Homer, the very fountaine in his time of wildome, where, as hee deferibeth Alcinus the bing of the Phaces, whole belight in the planting & pleasures of his orchards was wonderful. And Lacrees the oldeman, that with his continual occupping of hule bandey, beought his mind better to beare the ablence of his fon. Heliodus in his work er i eyon xai nuteau gineth great praile to Aftres, that being banifhed the city, gave hunfelfe to the life of the countric: pea, the ground hath before time bin tilled by the hands of Emperozs, the Carth in the meane time, reiopcing to be tozne with a bidozers chare, and to be plowed with the hands of a tri umphant conquerer, either because they dealt with the like res gard in their fed, as in their warres, or bled fuch diligence in the come fields, as they did in the campe, or elfe becaufe all things handled with honeft and vertuous fingers profper the better, bee ing more carefully loked to. Serrarus inhen he was called to hos Sertanus. nour was found fowing of fird. The Dictators office thas brought Cincinatus by the purceuant to Cincinatus, being all naked & beimcared with fweat and duff. The purceuants had firft their name of calling Senators and Gouerness out of the Countrie to the Citie. In like fort had this name at the firff, the Fabij, the Pilons, the Curij, the Lentuli, the Ciceroes, the Pilumini, and other auncient houles. Horace telleth, that of hulbandmen have bene beed the bailanteft and worthieft fouldiers : affirming, that the hand that hath bene bled to the spade , proueth often of greateff value in the field. Homer reporteth agreat valiancie inVlifes his neat heard, in the flaughter of those fellowes that would have rauthed his mis Husband-Areffe. Bolt certaine it is, that a great number of Emperours men come haue fprung from the plow And to let others goe, it is knowne to be Emthat the Cinveross Galerius & Maximinus came both from pose Heardmen to the imperiall dignitie. The like is witten of lufine, Conftantianus, Probus, and Aurelianus. The ftozics report,

perours.

that

that M. Curius the Emperour was found in his house bopling of a rape rote, when he refuled the great fums of gold brought by the Samuits Emballadors. What fould I fpeake of the anti- The antiquitie of it the holy Scriptures beclace hulbanday to be the any quite of cienteft of all frades. And to begin foith the bery beginning of Husbanman, & that neither Oliris, noz Dionilius, were the first founders dry. of this knowledge, as the Paintins fable, but that the most might tie Lord himfelfe did firit ogdaine it: fog Adam and his fons were all hulbanomen, Noe was a planter of vines, Abraham, Ifaac, and The first au hutbanomen, Noe was a planter of ones, Abranan, nac, and planter of lacob, were thispheares, Saul from his Aftes, & Dauid from his .Vines. they, were called to the crowne, Elius & Amos of thepherds were made prophets. Ozias as we read, professed hulbandry. lefus the fonne of Syrach commending hufbanday aboue the reft faith, he cultomably bled himfelfe to hold the plot to drive the cart, a to kepe cattell:but what nicd we moze? Dur Sautour Chaift hims felfe glosieth to be the fon of a hufbandman, & frameth his paras bles of planting of bines, of thepe & thepheards: moreover, as it is in Luke, our Lozd fiemeth to be a teacher of hulbandzy, where he theweth, that tras are to be digged about & dunged, that they map profper the better. For fith this knowledge is of all other most innocent, & without which it is most plaine we are not able to line: the belt men have alwayes imbraced it, and the old Fathers have ever counted it very Tolen-German to wilcoome. Cicero calleth it the Mittris of Juffice, diligence, and theiftines : fome others call it the mother and nurse of all other arts. For dry the whereas we may live without the other, without this we are not mother se able to instaine our life: befides, the gaine that hereof arifeth, is nurse of molt gobly, and least fubicat to enup, for it hath to beale with the all other earth, that reftozeth with gaine luch things as is committed bn, Aris. to her, specially if it be furthered with the bleffing of God. The onely gentlemanly may of encrealing the house, is the trade of hulbandzy : and for this caule they were alwayes accounted the perfectelt Gentlemen , that, content with the living their Aunceftozs left them , lined in the Countrie of their Lands, The wornot medding with figging, chopping, and changing, no? fies thinefie of Husbanhing their lining by handicrafts. M. Varro in his time, layth, dry, there was great complaint made, that the Fathers forfahing the Plough and the Dickle, began to craye into the Tolune, and

and bulled themfelues rather with Pageants and Didfommers games, then with the Ainepard of the Field, whereas the Co. uernours of Rome to devided the være, as they alligned onely the ninth day for businelle of the Citie. ethereft of the time for the tillage of the Countrie, whereby being hardened with labor in peace, they might the better be able to abide the tranaile of warres. Which countrie veorle mere almaves referred before the people of the Citie, and more Poblity thought to be in them that till the ground abroad, then in those that lining idely within the walles, fpent their time buder the fbadow of the penthoufe: ercept a man will, with the common fost, thinks it more houseft to get his living with the blod and calamitie of poze foules, oz not daring to deale with the fluozd, to make his gains of mare chandize, and being a creature of the land, contrary to his kinde, give hunfelfe to the race of the Seas, and the pleasure of the Windes, wandering like a bird, from those to those, and country to countrie, or to follow this andly profession of bawling at a barre, for gaine to oven his falves at every bench. Surely, as I faid before, this onely bath bene ever counted the innecentele trade of life of all men, and in all ages, 15 p hufbandep were made rich the gooly Fathers, Abraham, Lot, Iacob, and Ioab, and molt. certaine it is that this profession a this gaine is most acceptable to Bod, when hee commanded Adam to till the ground, and to get his living with the fweat of his broines. Thus is hufbandry of fuch authority, as God with his open witheffe hath allowed it, and afterwards by his feruant Moles hath added his bleffing bue to it, faying, I will give the around my bleffing in the firt være, and it thall being forth the fruits of three piercs. And againe, If pon will kæpe my commaundements . I will fend you raine in due fealon, and the earth thall vield her increase, and your tries thall be loden with fruit, the threflying time thall lafte till the bintage, and the bintage thall endure till the folving time, & you shall eat your bread with plenteousnes. What can there be now more pleasant to a Chriftian man, than to get his living by fuch meanes as he knoweth deth please God, and to play the Philos fopher in the molt fivet contemplation of the benefits of God, and to acknowledge and reverence the wildome & power of the dinine

Genel.z.

Husbandry pleafing to God. Leuit.26.

Dinine Paieffie, and his bountcoulnelle to mankinde, to give thankes and praise for his godnelle, the very hearbes and creatures in the field in the meane time preaching but obs.

R 1 G O. Pou frame me here of a hulbandman a dinine, and almost bying mee in minde to become a hulbandman, who almaies hitherto with the common fost, accounted this hulbandrie to be a beauly and beggarly occupation.

CONO. What divinitie there is in it, and what a field of the acknowledged benefits of Bod, you have heard. That the common fort doe thinke it a beattly and beggerly kinde of life. it is no maruell. fith the common peopledo never induce a right. The common people doe wonder at the pompe of the Court. and judge them for the happielt men that deckt with gold and purple, are in greateft fauour with Painces, and Officers, and Councellozs to them. little knowing in the meane time what heapes of folowes lies hid buder that blaue & glittering milery. The common fort preferreth thamefull and beattly delicatie. bes fore hones & vertuous labour, joving to confume the night in dzunkennes, lechery, and billany, and the day in fleeve & valtime. thinking such happy as neither behold the rising not setting of the Sunne. But those that are of sounder judgement, account the hulbanoman molt happy, if they knew their owne felie citie, to whom the Carthin a farre quieter maner both minifter a fufficient liuing.

And though with gorgeous gates the building high, ...

With earthly greetings alwayes doe not flow, Nor feeling garnifht gay with imagrie,

Nor rich attire wee fee, nor coffly flow : Yet ftedfaft flate and life vnskild of guile,

With wealth ynough and Paftures wide at will, And people ftrong traind vp to paine and toile,

And youth with diet fmall contented ftill, Where Godly zeale and vertues all did dwell,

When luftice laft did bid the world farewell. :

As the Poet hath most grauely written in the praife of the Georg.2. hulbandman. Aglus Sophidius was indged happy by the Dracie of Apollo, because he occupied a small corner of Arcadia, but yet infficient

fufficient for his iinclod, where he spent his life without ener comming abroad: whose order of life sheweth, that he was netther vered with greedy defire, neither with any other trouble of minde, as Pliny with effeth. But I holde you to long with commendation of that which of it felfe is sufficiently commended. Hato, wile, I pray you let be goe to dinner.

METELLA. Pou thall fir by and by. God mozrow mailter Rigo, A thought Xenoplaus had beene here, who bleth to fetch my hulband alway, be hath by chance bene now at home a weake or twaine, which fome milliking, prefer him to most painefull and troublefome busines, procuring him to be fent in embastage beyond the pillers of Hercules, and (which they thould be loath to beare themfelues) they call all byon his backe, as a common pachhorfe, who being now old, reason would be would be fpared and fuffered to be in quiet, that being at the last free from the furmoiles of the world, he might give hunfelfe to his prayers, and prepare himfelfefor heaven.

RIGO. It were moze for the benefit of his Country, that mae fer Cono came oftner to the court, but he is the feldomer there, because he taketh such pleasure in his husbanday: howbeit, I came for no such purpose, but onely to visite him, being my ald friend.

CONO. Poumuft beare with a womans babling.

RICO. I pray you, fince it is not yet dinner time, let bs walke about, that I may view your house till dinner be readle.

CONO. If it please you, I will thew you my houle, where I have appointed my kingdome.

RIGO, pow furely you have as happy and as pleafant a kingdome as may be.

Who is happy.

Horace.

CONO. Indied I confeste my felfe happy in this, that contents ing my felf with my poze estate. I defire no moze: for as he faith.

The man that most doth here posselles, Thou canst not justly happy name,

But he whom God with gifts doth bleffe,

And well doth know to vie the fame :

Him maieft thou rather rightly call,

A happy man about them all.

burcly I, in this my kingdom, og rather pæze cottage, am moze happy

happy then a great fort of kings e princes of the world, that are lozos of many glarge dominions. Riches ace not to be measured by their multitude, but by the mind of the pollefor. And as Da- who is rich. uid faith, a little is better with the godlp, then the great riches of the michen. Cincinatus occupied only 4 acres of ground: Socrates hauing but 20. Darkes in all the world, was counted a rich man. So 7 with Virgill doe commend areat poffeffions, but had rather occupie little. Therefoze loke not to fæ here the houfe of Lucullus of Hyrcius, inhich is faid to be fold for 4000000.H S. fuch fately Divellings & marble flozes, as Cicero faith, 3 Defuile.

RIGO. Potwith Canding, bere is all things faire, and as it appeareth commodiou ap built ...

CONO. For my part, I build my houfe, as they fay, accord ping to my purle, agreable to my calling, s to my liuing. a will fiely you in order how I have call it, following the aduile of Ifcomachus in Xenophon, when Cicero both arcatly commend, And firft, the feat of my house bath mooned me to build it after Theorder of this fort. Cato would have a man long in Determination to building of a build, but to plant and folo out of hand. Dur fathers here bes house for the fore, obferned the fame, and famed to follow the councell of Countrie. Cato and Columella, with whom agrath allo Plinic, that the owner build his houle in and ozder lo as neither the houle be to areat for the land, nor the land to much for the houle. And heres in it is written, that L. Lucullus, and Qu. Sczuola, were both to blame: for one of them had a greater house then was answerable to his lining: the other, which was Sczuola, built a fmaller house then hislining required where both are buyzofitable to the mas fer: for the areat ruinous houle, not only is more chargeable in : building, but allo afketh greater coft in the maintaining. Again, . if the house be to litle, it will be a defruction a lotte of your come and fruit : therefoze it is greatly to purpole, in what fort we. - build & ordaine our house. Caro would have the house to leated, as the apre be good about it, and (if it may be) placed at the bot The feat of a t fome of a hill, loking directly South, a in a wholefome comer. house. Varros minde is, to have it places toward the Gaft, that it may have the Madow in Summer, & the Sunne in Winter : with : tohom Columella agreeth, faving, that if abilitie, ferue the feate 13

is to be withed in a holeforme place (for Caro, as thall hereafter be the wood, would have healthy flanding chiefely regarded) with a fruitful mould, fome part of it champion, fome hilly, lying Cafe or South, well watered and wooded and flanding not farre eff from fome haven, or navigable river, to the end he may carp and transport such things as him lifteth. Cornelius Tacius writeth that the Germans were wont to build their houfes, as the hill, the River, the Wood, or the Lake, would beft suffer them.

R 1 G 0. Hereof I thinke sprang at the first lo many surnames as are at this day derived from Pountaines, Rivers, Lakes, and Woods.

CONO. It may be, vet others Do counfaile, in no cale to fet your house nore a Barth, or a areat River : for the Fens and Barthes, in the heat of the vere. Do fend forth pettilent and Deadly dampes, and a great number of benomous creatures : which dying, for lacke of their olde moilfure, infecteth the agre, and biedeth fundig and frange difeafes. Homer affirmeth bern truly, that the apre which in the morning commeth from the River, is very unbollome and dangerous : and therefore if the houle nuft needs be built niere a River, they would have fuch hede taken, as the River rather fand on the backfide of the houle, then before it: and that the frunt of the houle be turned from the hurtfull & unholefome winds, and placed towards the healthieft quarters. Since all waters commonly with dampily bapours in Sommer, and finking cold mifts in Winter, ercept they be well purged with holefome Windes, do infect both man and bealt with peffilence: beff is it therefore in goo & healthy places, to let the house toward the Caft, or the South, 7 in fuspeated aires to place them against the Porth. From the Sea it is goo to beas far as may be, because the winds that blow from the leasare buholefome, and the spacelying betwirt you and it, poils allvaves a loathfome aire. Dou muft beivare beades, that you fet not your house by any great hie-way, left you be mole fed with pallengers, and troubled oftentines with more guels then you would have.

Neighbour-

RIGO. As far as I remember, o'd fellewes did measure the godnes of their dwelling, by the qualities of their neighbours.

CONO.

CONO. Bou lap bery well : inded Thad almost forgotten it, a froward knaue to a mans neighbour, is not one of the leaft milchiefes, as thatbe lavd in the end of this boke. I have knowne funder god men, befirous of quietnelle, that have forfaken god Dwellings, rather then they would abide the iniuries and treu. bles of fuch companions : wherefore Heliodus had fome reafon in faving :

As great a milchiefe is a froward knaue,

As is the ioy a neighbour good to have.

But vou maruell what I meane by fuch a long preamble, fures ly I am the longer in this matter, because you found buderfand the reason of building of my house. for whereas there are funs dep purpoles of building; fome build for pleasure, fome for wantonnelle, and some for necessitie, I thought it god to recite the minds of the old writers, concerning the building of a house. And when as every one will not fuffer fuch curiofitie as they require in the placing of a houle, fome building bpon rivers, fome withs out oz within the Marih wals, who cannot thun the neighbozhoo of the river of the fea, fome in lakes, fome in woos, & fome buils ding byon mountaines, are driven to supply the defect of nature with art & industrie: I my felfe, fith I can by no means auoid the nereneffe of the river, do fieke as much as in me lies, to turne as way the difcommodifics : and becaufe I fiele the difcommodifie of the riling of the flods, I have let my house in this place without the banks, & mounted it as high as I could: and left the rage of the water, and force of the ile Gould beare it alway, I have plans ted round about it great trees : and that I might thun the damps of the ground, and the blafts of buwhollome winds, I have turned my dozes and my windowes to the wholfomelt quarters.

RIGO. Surely, eicher pou, oz pour anceftazs haue both commodioully and handlomely placed this house, for the front is done ble, one part loking towards the Galf, the other towards the South, and to built with Galeries and Gables, as it both recciueth the Sunne in Minter, and the hadow in Summer : befides, you have a faire Porch as you enter in, that keyeth away the winde and the raine from the doze.

CONO. All the one fide, if you marke it, where the front is, lyeth

lieth South, receiving from the first corner, the rifing of the fun in Winter, declining fomewhat from the Caleff, whereby it is warme in winter, and not troubled with ouer-great heat in fommer: for this kinde of building hath an equal medly of the winter windes & fommer windes, fo that it received the cole winds in fommer, and is not fubicat to the bitter blaffs in winter.

R 1 G 0. Some part of the building, methinketh, is after the Italian manner.

 $C \circ N \circ$. Some part of it being ruinous, 3 built after my fantie, and such as J found found, 3 thought enough for mee to kkepe in reparations.

Rigo. I pray you, proceed to deferibing of the reft. This bale court femes to be after the Italian fathion, with two gates.

CONO. This Court 3 thus deuiled my feile. Here was a kind of Court before, but not to commodious : therefore 3 made a fquare wall here with a great gate, for the bringing in of my cariages, 7 a leffer for people to paffe in 7 out. In the boid place here befides the porch, 3 have made a litle walke, couered with a Mine, with divers feats in it for thadow, where 3 many times walke & talke with fuch futers as 3 have: 3 have in it a table of from to fup opon when 3 am disposed. Once against the gate, as you fie, at the fouth fide of the Court, there is a Bake-houle, 7 a Courtmill, with Duens for bread, 7 other baked meates, there is allo a Szewhoule, with an Daff for dry of malt to make here with.

RIGO, Surely, all bery handlome, and in bery god ogder.

CONO. These offices (for feare of fire) you lie, are all severe from the house: there is becaute adiopning a faire Usell, which besides the service here, doth also ferue my kitchin, and other houses of office : for within the house, I have neither Usell nor Fountaine, which is a great discommodity, such as I would give a great deale of money to remedie, both for health & colenes in fommer and for watering my Sardens & Orchards. Usater is one of the principal off things to be cared for, as the great chasse of health both in man & beaff: but this want is supplied partly by a god Usell without, a partly by Coffernes, receiving the raine water that fals in certaine Conduits and Pipes, which water is most wholefome for the body; and beside, the river is not far off.

RIGO.

R 1 G 0. Come on J pray you, let bs fie this back-houle, J beare that you have a new fathioned Hull, of your owne drutte.

Co No. Pou thall fæit. When as in a great heafe, there is great næd of Come milles, and the common Pilles, being farre off, the way foule, and I at mine own libertie to grind at home, or where I lift, thinking to make a Pill here at home, when neither place nor authoritie will ferue mæ to build either a water mill or a wind mill, and a Querne, or a hand mill, both but a litle gæd: and to build a horfe-mill were more troublefome. When I fain the whæles that they ble to draw water with, turned with Affes or men, I thought in the like fort the whele of a mil might be turned, after this lort deuifed I this engine, which a couple of Affes, guided by a bsy, doe eafily turne, and make very fine meale, fufficient for mine owne house, and most times for my neighbours, whom I fuffer to arinde toll fræ.

R 1 G 0. Surely I like well your denice. What will not the diligence of man being to pails ?

CONO. I finde it profitable but o me, but because it is not the spinies way of grinding, I have belide a horse-mill, which it need require, is turned about with a Jade 02 two.

R 1 C O. Lo, here is a great lead placed handlomly in a brick furnace in the corner, which I thinke ferueth to brew withall.

C O N O. Inded, to that end it is most occupied, but it ferueth other turnes belide.

R 1 G 0. There is a Hopper (me thinketh) over the top of the Daft: where to ferueth it ?

CONO. It ferueth to conucy downe the Halt, after it is was tered buto the hairceloth, where it is dayed.

RIGO. Witherefore ferueth that great Tunne ?

CONO. To water the Barley in, when nied is, otherwife it ferueth for a math fat. Hereby is a bake-houle, and a pattrie with two Duens, one ferving for houlehold bread, the other for manchet for mine owne table, and for tarts and fine bakemeats. Here are also troughs to kkepe meale in, and troughs to lay leauen in, and there is a faire table to mouid upon.

R 1 G 0. All is handlome : but what meanes this building about your Court ?

25 2

CONO,

fieds, Dunnes, & Cleffels, for Coline, 13 dere, and Water, Bives, Donnels, and such like, shall likewife be themed pou, luben vou come to the Brewhoule, a cal incfeller: with Colerakes, Siucs, Sercers, 15oultingstubs, 15oulters, that you thal fein the Backs house, and infirmments for all other varvoles, laid by enery one in his place, till they be to be occupied: for it is bery necellary to have of every fort two, as the number of your feruants and new ceffitie requires, that if one be lofe or broken, veu be not driven to goe a borrowing, or to leave vour works, where by your men chalbe idle. While your twies be a faching : for to runne curry day to get new, is not for a hulbands profit. Befive in the mean time your feruants lotter, and lofe more then the value of their todes.

RIGO. Eruely they be all placed in god ozder.

CONO. J place first by themselves, fuch as are most in ble, that they may be the readier, a next to them, fuch as be occupied once a moneth.oz in a pere: 3 give the keping of them all by tale.to my feward or my barliffe, that they may beliver them out as need is, and lay them by againe, and charge them in any cafe to loke to them every moneth, that they may mend what is amille in them.

RIGO. Dider is a folly follow, and no godifer a thing in a man, then to do every thing orderly, and to lay by every thing in fuch order, as it may readily be found : of which, a fingular cram, ple both Ilcomachus fiein in Xenophon, in his Bhinician barke, tuberein a wonder it is to lie what a deale of fuffe hee had bes Rowed in to fmall a beffell: he carried with him all the furniture that a man Gould ned, and enery thing in luch order placed, as they were at hand when need was, without any trouble.

CONO. I my felfe haue an inuentozy of all my hufbandav inta plements, and fo hath my Baily and his mife: my Steward hath the key of the Aozehouse, and deliners out and receives as I told pou, what every man neds : for 7 willingly neither borrolu noz lend: I have a neighbor or twaine of whom fometime I borolog and lend againe : but ercept them, to none, as Caro teacheth me. R 1 G O. The fame Cato alfo, as 3 remember, teacheth to know a mans hulbandry by his toics, a therfore by your great number of twies, a man may gueffe von have a great deale of occupying. Cono. The double number of them makes the muffer the aucater : : 64

greater : otherwile, if there were but to ferie the turne they would not fieme fomany.

RIGO. 3 play you goe folloard with your description.

C O N O. Poin he a voyo rome before the Mitchin, which is an entrie both to the Mitchin, to the Folkes chamber, and to the Ope-houses, so that if any misiortune happen to the cattell in the night, my men may speedly helpe them.

R 1 G O. The laitchin is very well handled, in that you have The Kitfo well pargetted the roffe.

CONO. It is because I have a great number of servants, inhich soz lacks of other come, doe sine and sup here: belide, the pargetting or swing, is a god fasctic against fire.

R 1 G O. Here is a god handfome role by the chimney, well fored with red Herring, Bacon, and Hartilmas bute, there is also a handfome Spinche by the Kitchin.

CONO. This lettiled wall that you fe, iopneth to my Bars liffes chamber, to that hee may the what is done in the Bitchin, and about the houle. Decreanto is also iopned my Larder, a bault Larder. with their romes, one ferning for Butter and Bilke, the other for Beere and Willine, the third for to keepe fleth in : here have I no windowes to the South, not to the Wieff, but all to the Porth, and to the Caff, becaufe thefe quarters are leaft fubiect to corruption, and will longeft preferue any thing, Aboue in the loft vonder, doe J lay my come, byen a faire floze, closely fenced Corneloft, and fieled against Bile, receiving the light by Lattille windowes from the Porth. Hard by, is another loft very close, with like Appleloft. windowes toward the poth, ferming for my fruit : for that quarter is cold, and not movil, whereby it preferies belt, both Deat, Come, and Fruit. Pow if you will goe through this bors, pou may behold the back-fide of my houle : loe here a faire thee= thing floie, whereuvon my come is fundey times theefled, fans ned, and winnowed, and many other things done, chiefly in the winter mounings, though 3 have befide a threshing place in my barne. On each fide are lodgings for my Servants, and other romes and lofts for Stralu and Fodder for my Cattell : and there by the Stables, are also Servants lodge ings on enery fide, and my Daides chamber neve the kitchin,.

113 4

and

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and the walking houle. Dou lie this foreftail closed round about. to the end that the cattell, when they be watred and put forth. while their houles be made cleane, may be in fafety. And here I haveallo Oxfe, Duckes, Deacoches, Turkicoches, t other pouls trev. It is as you fie. to enclosed with fables, barnes, and other houses, that nothing can get out. Varro will in any case have tive Courts an inner court with a little pond in it of fanding water. or running water, in manner of a filipond, and there he would have Horle and Dren, comming from the field, or fable, to be fuatered and walhed, & to ferue likelvile for Shave, S wine, and Sele. In the otter Court would hee have a lake to caft in whieles, flaues, and pieces of timber, for inftruments of hufban, dep, that they might there be fealoned. This Court he would have often frawed with fraw, and chaffe, that being trampled with cattell, it may forue to lay byon the ground. Dou fie in this court a double dounabill one of them newly theowen out of the Rables, an other old, and ferning for the field : for new doung is nothing to god as the old, for manuring of the ground.

R 1 G 0. What meanes these twigges, bowes, and frames, cafe byon the boung ?

CONO. This preferences the boung, that the inyree that the ground requires, be not fucked out of the funne: and hither alfo runs the water from the Launday to moiff it the better. Varro would have here alfo a lodging for feruants: But leaft we tarcy to long among the dounghils, let us goe fie the other buildings about the Court. These great romes that you fie, be Barnes to lay Coane in : infome places they ble houses, in others againe, ftackes, let by on props, which they call mowes : but the houses are a great deale better. Pert to the Barnes, are the Stables, ftanding arow round about the court. And because Virgil would have the ftable frand toward the South, and Vircuius, neare the fire, T have followed their order in building my ftables. And firff

have I fet here my fable for my cart-horfe. I have another fable nere my owne lodging, for my horfes of fervice, and hackneies. R 1 G 0. That femeth to be bery handfomely built.

CONO. The nert are houles for my thepe, f nert them for hine, calues, and heyfers. There is a hoghie with two romes, one

fo2

Barnes,

Stables:

for my farrolung fow s, the other for Hogs, and boarcs. There is allo a third flic.not farre from the wallhoule.foz the fatting of mp Dorkes: enery kinde hath their kapers lying nore them, that they may be at hand what sever chaunceth. Laft of all, there Rands my Baybarne, which hath in the bover romes my Bay. # beneath, luaines.carts.carres.waggons.coaches.harrolus.ficos. plowes, rowiers, wheeles, naues, vokes, rakes, plowbeames, and fuch like, which are there fafe from wet, and from vilferers.

RIGO. J pray you, who doth loke to all this geare, and keveth enery man to his worke ?

CONO. Dy Bailiffe, as I tolo you before, ouerfeth both my worke and my workemen : belides, I haue a Steward that los keth to the receauing of my revenues and commodities.

RIGO. Dour bailiffe had need to be a fkilful and truffp man.

CONO. Dou fav true for as Xenophon faith the chovie of a Bailiffe and a Philition ought to be one : you must chose such a one as being a very erpert hulbandman, map wel be able to take The the charge, and not to be ignozant of thole things himfelfe, that he Bailife of a commandeth others to do, for nothing is well taught or learned, husbandry without example. For as Caro faith of a hulband of the old Kampe, it goeth ill with that maker whom the 15 ayliffe muft feach. As Iscomachus being demannded of Socrates, whether he would buye a 1Bapliffe, as he would hire a fmith, oz rather teach bin himfelfe at home ? De aufwered, he would have him of his owne teaching.

RIGO. But this is after the old world, wherein no man was bufailfull : but it is a wonder, how you that have alwayes beene brought by in vrinces affaires.could in thele daves (when very felo, ercept plowmen, and fuch as hane no other trade of life, have any fkill in it) apply your mind to buto it, as a man would thinke you had never minded any other profession.

CONO Surely, I think he that never have a god Balliffe, that is not able himfelfe to indge fkilfully of him : noz let him cuer thinke to have his worke well done, that knoweth not how, nor which way things ought to be done, but mult be faine to learne of his man: for there is none can indge of a worke, but a worke man. Therefore in the choyle of a Balliffe, I would have foure things

What things. oughtto be in a Bailiffe of

things chiefly confidered: that he be louing, biligent, meet to rule, and truffic.s if von will aboe a fift, Tam well contented that is, that he be not given to Dounkenneffe: for a Dounken man lofeth with his memory, the regard of his dutie. 3 do not enquire wher husbandry ther hee haue bene breught op civilly og baintely, but 3 would baue him a hard fellow, beought by from his childhad to labour, and one that were throughly well fuilled, of a meane age, that he be not unwilling to worke for pouth, nor unable to traualle for age. I would have him have fome failt in carpontrie, that if there hannen to be any thing broken about his Stables, his Carts, or any other his inframents, he might forebilly mend them, & that he could mend Telals and Dedaes. I would have him also not . bufkilfuil in the difeates of Cattell : fuch a one as bath beene brought op with fulfull hofbands , will proue meteff to have charge. For there be a great number, that though they be failfuil enough in their profettion, vet have they not government in them: but exther bling to much tharpenetic, or to much gentlenes to. wards fuch as be bnoer them, doe hinder the profit of their mas ffer: and therefore 7 would have a Bailiffe well tried before he be taken : neither is it onely to be fought, whether he be fkilfull in this crafe, but lohether be be truffie and louing to his Baffer, without which, he is not worth arulh, though his full be never to great. And chiefely he mus be failfull in this, to know what worke is metelt for enery man: for fome works require frength. moze then fkill, and others, otherwife. And therefore in appoint: ting of thefe.be ought to have great judgement & god Diffection. which hee cannot have, except he have good full. Therefore a-25 ailiffe is as well to be taught, as a Smith, or a Carpenter : and the knowledge of hufoander is greater a of more difficultie: Wherefore & merualic, that in this fonecellary an occupation. there are found to few Mafters and Deentices.

R 1 G 0. Derhaps the teriousnelle and hardnelle thereof die neththem away:

Cono. Wahr haue not Deators bene likeluife defuen as may ? for as Cicero faith, there hath bin no perfed Drator found. Rico. Of whom would pou have your 15ailiffe to be taught? Cono. Pour quellion is god, I will thew you, though bery. fein

few have taught what belongeth to a bufband in all things, neither thall you finde many fkilfuil in enery poput. Therefore he that thall be a 13 ailiffe, muft be taught by Degres, he muft fielt begin when he is a childe, with keeping of Shepe of Swine, and The may-ning of a when he is clocr, with doorrs of Cattell, and keeping of Posfe: Ballife. he mult learne next to bigge, to theelin to fet, to folue, to hedge, to build, to mend fuch things as are broken, to play the butcher, to cine drinkes and medicines to ficke Cattell, and fuch other like things. And thus mult be proceede from one to another.

RIGO. Dou fiet ince wonderfull Bhilofophie.

CONO. As I faid at the firft, his beft age is betwirt thirtie and thre core: for the flames of lufty vouth beginning to abate. he will not be to bot in his waing: for whiles he followes that name, he will have no minde but of his minion, neither fhall and reward be fo welcome buto him, as the fruit of his fancie, noz any ariefe to areat to him, as the failing of his defire. Af he once paffe theefcore, he wareth flothfuil e bnable to labour : for 3 had rather have the worke of a painefull & diligent Bailiffe, then the fervice of a great number of flothfull lubbers: as he that had ras ther have a Lion captaine over Barts, then a Bart captaine over Lions. This mult chiefly be loked buto (fince earely going to worke is a great matter) that the 15 ailiffe be a god rifer, a that, fupplying his Hafters place, he may be firft by in the mouning, and the laft that goeth to bed. a that he fie the boozes faft locked. and every man in bed, that the cattell have meat enough, a be well littured, that he fet forward, according to the time of the peere, fuch as do lopter in their laboz, that he himfelfe go luftily befoze, that he luffer no man, after it is day, to lag behind, but that they follow the Balliffe luftily with a courage, as if he were their capa taine in afkirmilly: and that he ble funder denifes to chore them by in their laboz, fometime to helpe him that fainteth, to take his toole out of his hand, & labour luffiv before him. And as a carce full fixpheard, earely carrying out his fiepe, z bringing them home late, looketh that he leave none of his flocke behinde him: to like wife ought a good 15 ailiffe to carry out his men, t to have good regard over them. If any of them be hurt or ficke, let him looke to the dreffing of them, and if they be very ficke, to carry 11 . them

them to the ficke folies lodging, a to fit that they be well order red: and to that ble have I built vonder house that you fe remoned from the other buildings, that the ficke may be had thither a loked buto, fyccially if their difeales be contagious, leaft other fould be inferted. It is the Mailters dutie to have luch regard of the health of his feruants, that their fickenes may be preuen, ted by god medicines & god loking to: as to lie that their meate and deinke be wholeforme & and, and ginen in due feafon : befide, that the Bayliffe eate his meat with them, and not by himfelfe, whereby it mall be the better ordered. And because Whilitians are not alwayes at hand in the country, it behoueth to ble fuch remedics, as experience hath taught. a fuch as have holven others of like difcales. Those that labour in the Sunne (because the Sunne hurteth the body & baines) their diet muft be the thinner. that they make not to great meales, but cate litle and often: this order kæpeth them in health, & helpeth digeftion. Some bo ble to give Wormelund- Wine, or pottage made of Wormelund. It is very necellary for them fomtimes to recreate themfelues, to that in the meane while they give not them clues to naughtis nelle. There mult be hed taken, that they dainke not when they be hot.noz lye byon the cold ground : if their water benot goo, it mult be well purifico. It is very god allo to let them drinke barley water. Wennuft remember that feruants be men : be, Ades, fuch and loking to, will bied a greater and will & dutie. and lightly they will ferue the faithfuller and better when they haue their health, which have had god cherriching in their fickes nelle: and belides (which is not well observed in greater gowers nozs) the Bailiffe muft beware that he deale not to cruelly.noz to gently with them, that he alwayes make much of those that be biligent & painefull, that he be not to halfie with the worler fort, that they may rather reverence him for his feveritie, then hate him for his crueltie, which he thall ealely bring to paste, if he rather beware that they offend not, then after their offence. to late, to punify them. For there is none fo good a bridle for an cuill desposed person, as to let him alwayes be occupied. So that Catoes laping heerein is molt true, that men in boing nothing, learne to doe euill. Let them have their allowance, and their meat

meate induc leafon, let them alwayes fied together in one place, and the Bailiffe with them, that he may be an crample to them of all theiftines. If he finde any of them to have laboured paince fully and truly, let him give them a good countenance, and en= courage them with rewards, to make them the willinger to bae their Dutie : belide, let him looke that they bee rather well clos theo, then curioully apparelled, that their garments may kieps them from the colde & the raine : let their wages be well paied them, that the want thereof beno excuse for them to loyter in their labour. And as meat and apparell is necellary for them, fo likewife is correction. For the wife man faith, giue a Horle the inhip, an Alle the lnaffie, and a Foole the rod. And againe, he that deales too gently with his feruants, fhall make them in the end ftubborne and froward. Aboue all things let him fie that they feare Goo, let him in no wife fuffer them to fweare, og to blafpheme, not to ble filthy of bugodly fpich : but let him prouide that they bee inftended in the Catechilme, that they ble prayer, that they goe to Sermons byon the holy dayes, and receive the Sacraments at times appointed, that they be not hunters of Alehonfes oz cuill company. Foz,as the Poet fayth, it is law. full to be well occupied, euen on the Feltivall Daics. When they haue ferued God, & dined, let them walke abroad in the ground, let them looke there be no Cattell in the Come, and fop fuch gaps as they finde open, and looke that their Cattell be in fafety abroad. To be thost, the Bailiffe muft in all thefe matters be, as it were a Bilbop, oz a Malter of the workes, fo thall every man the better doe the worke that belongeth buto him. The Bailiffe must neuer be from their hieles, least in his absence they fall to logtering , neither must hæ fuffer them any time to be idle: hæ himfelfe muft not be given to brinking or gaming, nor to hunting oz filhing, ercept foz his mafters profit: let him bery feldome en. tertaine any guefts, ercept they be of his mafters retinew : let fin not beftow his mafters money about his owne merchandize, for such kinde of bargaining makes him the flacker in his dutie, and maketh his accompts feldome fail out ruft. Aboue all things this is to be willed in the Bailiffe. that he do not thinke himfelfe wifer then his matter, of suppose himselfe to have more sail then he

he bath, & that he alwaies leke to learne luch things as he is las norant of. for as it is bery profitable to bo any thing failfully. fo is it more hurtful to ba it bntowardly. Columella had rather have a Bailiffe that could neither read nor write, fo that his memory be and : for fuch a Bailiffe (faith he) will oftner bring his mais ffer mony, then a boke : because (not able to write) becannot fo TheBay- eafily frame a falle account. The Bayliffes wife muft alivaies liffes wife. he with him, that the map key him from running at rouers and may helve him in his labours : her age muft be luch alfo, as we required in the Bavliffe befoze. We muft be vainful, bealthy.carce full a honeft, the muft not be to ill fauozed, left the be loathfome buto him, nog to beautifull, left hie boat to much byon her, and kepe home when he thould be abroad. She mult in the means time loke to the Bitchin, and to other works at home, course the Maides, and keepe them at their worke, loke to their neces faries, and give them their allowance.

> R 1 G 0. Pou firme to me here, to make the Bayliffe a Hals fer, and the Mailter a Bayliffe.

CONO. This age of ours, quite corrupted with delicacie and daintines. litle regardeth the honeft a profitable orders of our force fathers: for in thole daies the Maifters themfelues plaid the buls bands, & thought it not to goe well with that Mailter that mult he taught by his Bayliffe.as Cato Initnelleth. & Varro allo coma plaineth, that the hulbands in his daies had forlaken the ploin s the fithe. & gotten themselves within the walls, and spent their time rather in maygames & midfummer fights, then with tilling the ground, or planting of Uines. Therefore Caro & the old wais ters, do attribute many things to the Mailter, that we aligne to the Bailife. And J. though I feme to put the charge of the bouls hold in the hands of my Bayliffe, yet wil I my felfe be overfeer, and have enery thing done as Tappoint.entreating gently (as 3 taught the Baplife afoze) both the Baflife a my labourers, regars bing more their labour then my gaines. But 7 carry you about to long being falting. I pray you let bs age to binner: you shall not dine at Court to day neither meant I to thew you as you fe. the palace of Lucullus, but the porc cotage of Cincinatus, Abdolominus. oz Laertes. Dere vou la the rames for my hufbandmen. Leuered

feuered from mine own house, but yet so, as I may easily fie what they doe. Here I and my wife, with our household fernants lie.

R 1 G 0. All very excellently well as may be, there is nothing wanting that is to be withed for. Pitriffe Merella, you trouble your felfe to much, like Marcha, about the prouiding of your dinner.

METELLA. Pot a whit Sir, you must be contented with Countrey fare, you shall neither have red Dière, Parchpaine, noz Sturgion, noz any Courtiers fare : but an Égge, and a Sallet, a Pullet, oz a piece of Lambe.

RIGO. This diet contenteth me aboue all other.

CONO. Fall to it then, and tell me how you like our couns trey Wine.

RIGO, Surely it pasteth either wine of Dileans, og Aniow: 3 did not thinke to have found to god a cup of wine in these quarters.

CONO. The hulbandy, and good lealon of the piere doth pield the fame.

R 1 G 0. Well, we fit too long at dinner : the weather being fofaire and fo pleafant abzoad, it is a fhame to fit any longer, but to walke out and loke upon your ground.

C o N o. The weather being faire, you bying a hoste to the field(as they lay) when you speake to me of going abroad: for a my felle, if the weather or business to not let me, am energe day, according to Caroes countel, abroad in my ground: \neq if it please you, a will carry you abroad and thew you my ground. Pour must not look to let the great countries of Merellus, or Lucullus, but the possessions of a pore country man, that contented with his state would be as he is, \neq would not change lives with the Emperour.

R 1 G 0. I pray you let me heare your opinion of the field and Of the tilthe tilture thereof : for I fix you are a perfect hulband, and no- ling and thing bulkilfull. I have a great defire to heare foms rules, and husbanfuch as ferue our turne beft.

Cono. If it bee a chame for an apprentife at the Law, and a ground, pleader of caules, to be ignorant of the law wherein he dealeth, a greater chame is it for a profector of hulbandry, to be buffailfull in the ground whereon his whole trade lyeth. How is he able to iudge byrightly in hulbandry, that knowes not which way to tail

his

The first Booke, entreating his land? The profess of all other arts, bo commonly kepe fo

themfelues, fuch things as be the chiefempfteries of their knows

The good nature of the huf-

ledge. Contractivile, the hulbandman rejoyceth to have every bandman, body made print to his fkill, & being demaunted in what fort he doth this and that, he gladly declareth his whole dealing in cuerp point: fuch god natured men doth this knowledge make. Thane ordered mp ground here, according to the diligence of the old fra thers, rather then for the wantonnes of thefe times. Therefore I will first their you their opinions, and afterwards mine of me The degrees and fancie. Firft, Cato appointed nine Dearces of the land in Italy. The firft, the Uinevard, that veldeth much and good wine: the forts of ground. nert the well watered Garden: the third, the Willow Groue: the fourth, the Dlive tries : the fift, for Deddolu: the firt, Come ground : the feauenth, for Copie ground : the cight, for Timber tres : the laft for Daft. But thele vegres, as Varro fauth, are not generally allowed of neither have we the ble of them all in these countries : but make most account of such land, as serveth for Garden or Dichard ground, Coine, or filhponds. Df Coine ground 7 will firft entreat. and afterwards of Walture. Bedow. Of Corne Wood-land, and Willow Groues.

ground.

RIGO. I pray you then take the values to thew the nature of it, and which way the belt ground map be knowen.

CONO. Caro counteth that the belt ground, that lieth at the foote of a mountaine, being leuell, and lying toward the Sunne, as the whole countrie of Italie lieth. In colde and Portherly countries, it is good to have the land lying Gaft and South, leaft these two quarters, being bard off by any hill, the land be frozen with colde : but in hot countries it is better to have the around ive Porth, both for pleasure and health.

RIGO. They fav it is niedfull to know the conditions of euce ry ground.

CONO. It is to, and fooner fhall you doe it, then the conti tions of a man: for being well tilled, it will not deceive you, but How to know the deale iuffly with you. To know the nature of every ground. goodneffe Ifcomacus in Xenophon, both will you to marke well the plants of the and the vilo of the Countrie, ercept you will loofe your labour ground. or fight with God. Varro counfels you to looke whether there

be

be in the land either Stone, Marble, Sand, Ezauell, Kabbell, Chalke, Ciap, Breble, or Carbuncle, that is, around over heaten and parched with the fume, which will burne the rotes of whats focuer commeth in it. Alfo if it be wet or incoming ground, 52 fue ted buto other inconveniences, and fuch around alfo, according to the nature of the foile, is good or cuill. In fome Countries fonie around is altorether barren, fpecially for Come and Fruit: The other places againe, they ble fones in the manuring and better ring of their land, as in certaine places of Arden is to be fone. Theophrastus writeth, that the Corinths Did caft alway all the fonce out of the fields of Sarragola, e there by made the around the worfe, when, the fones being away, a the country hot, there toas no fuccour left to befend the ground from the extreame heat of the funne. In other places in ftonie and hilly ground, Dtes do profper well. In like fort allo, in all Countries we much reaard the lavee of the Countrie, and the nature of the fied that ine folic: for Grauell in fome places, is call boon the around in fead of Dung, a fome things profeer beft in grauelly grounds. In Barbary (as Columella both witheffe) the very rotten fands creedany os ther ground in fruitfulneffe. It is also fomething to the purpole, uhether the gravell be white red, or vellow: belides, lome ground both deceive both with colour and quality. In some Countries the blacke mould is onely effermed : in others, the fat red mould is thought beft. In England, the chalkie ground beareth god come. and paffures bery well. In fome places the thicke and the clams mie ground is most fruitfull. In all these it is to be learned, what is beft for the hilly ground, what for the vally, what for the tilled. what for the lay ground, what the moil leggie ground requires, and what the day and barren. Allo in planting, what ground is beft for Aines, what for other tries, what delights in drie ground, what in moiff ground. Virgil commendeth a mellow ground that is fat, and will some be resolued, for such ground is tilled with fmalleft charge and labour : the next, that which is fat and fliffe, which greatly recompenceth the hulbandman his tranaile and charges : the world is, that which is drye, leane, and fiffe : for both it is tilled with great labour: and belide, neither answereth in his crope the hulbandmans trauaile, neither ferneth it for god meddolo or palfure any time after, and therefore fuch ground is

C

not

Signes of not to be meddled withall. Allo, the gooneffe of the ground is ground.

the good- cafily perceived by perfect tokens: for a clod fprinkled with a little nes of the water, if in working with the hand it be clammy, and cleuing, and Aicheth to the fingers like pitch, when it is handled, as the Boet farth, and breaketh not in falling to the ground, this Welweth a naturall fatnelle and richnelle to be in it : belides, pou may know the mould that is god for Come if it beare Bulruthes, Thiffies, Thireleauco graffe, Danwoot, Brambles, Blackethome, and fuch like, as never grow but in good ground: as on the other five, lothiome and ill fauoured wedes, declare a leane and a bitter ground: ferne, and withered plants, a cold ground, fad and heas nie coloured, a moift and a wet ground: a raddel & a ftony ground, is differned by the epe, a fiffeand a tough clay, by the labour and totic of the Dren. A good token is it also of good ground, where the Crowcs & Pies follow in areat number the Plow, fcraving in the fleps of the Blowman The goodneffe is like wile knowen, fat the Sun letting, after a Kainebow, and in a fhologe of raine, foilowing a great drought, it vieldeth a pleafant fauour: alfo in falte it will appeare: if taffing a clod that hath bene watered in an earthen beffell, you fince it fivet it is a figne of rich ground, if bits ter, a great token of barren ground if it be faltich, it is to be thun. ined, and not to be bled byon the bounghill. Dau muft remember allo, that ground will fometimes change, and of fruitfull become barren, lubich hath bene fæne, as Plinie reporteth, in the old time in Thelfalie, and in our time, in funder places ef our Countrep. Belide, one kind of ground, though it be neuer fo fertill, will not The differ beare all things as the Doct milely noteth. Ne ferues one ground for every crop. Mozeover, the dispolition of the Beauens is a

Ground will change,

fition of the hear ucas to be observed.

great matter, a'l Countries have not the weather and appealike : wherefore it is the part of a good hufband to know the nature and propertie of his ground, and to marke the diloofition of it for eucs ry part of the pere: he mult allo confider what crop is best for euce ro laver. Some ground ferueth foz Coune, foine foz Eines, foine for Diues, fome for Dedoin, fome for Baffure, neither may all things wei be fowen in rich ground inoz nothing in barren ground. Such things as ned not much moifture, are beft fowen in light ground, as the great Caluer, Sperie, Chich, and the other pulles. that are pulled and not cut. Those that require more fuffenance,

arefolme in richer ground, as Pot-hearbs, Wiheat, Kye, Barly, Lin-læd. Some of them doe good to the ground the yere following, as Lupines that are bled to be fowen for the bettering of the ground. There is eifference allo to be put betwirt fruits for pleafare, and fuch as be for profit : as fruit trees and flowers, and fuch things as yeld both pleafure and fuffenance, and are allo profitable to the ground. Pou must chole for Willowers, Digres, and Kedes, a wet and a marrilly ground, and contrary where you will have Come & Pulfe, that delights in drie ground: Sperage and fuch like, must be fowen in thadowy places, and other ground for Quackfets, Timber, Patt, and Fewell: yea, fuch ground as is very grauelly and barren, hath his vfe, where you may plant Birch, and fuch like, and watry grounds where you may fet Albers, Browne, and Bolruthes.

Rico. Surely the temperature of the agge, doth much in the fruitfulnes of the ground, for I have oftentimes marked, that ons hind of ground is more fruitful in one Countrey then in mother.

CONO. In Venchri, the grauell ground beares Dlines beff. where as about Granado, they require the richelt ground that may be. Withen in other places the Uline both not profper berg well in flony grounds, about the Uhine the very ragged rockes doe pielo as fcuitfull Mines as map be fiene. Plinie both withelle, that in some places the Unics doe grow even in the Fennes and Marthes, fuch a ferret fosce is there in nature. About Chalcia, an Iland about the Rodes, it is faid there is a piece of ground to fruitfull, that they moto their barley being foined in his fcalon, and their Croppe, fow it agains, and gather it with their other araine. The Albanoyles receive the fruit of their land angera Has avheora butilled and bulowen, and being once lowen, it pick beth his croppe that veres together. Homer calleth Phages άμπελοέαςou, f Argos πολύποgoy. Hedorotus witeth, that Babilon is fo fruitfall, as the ground vielbeth increase two hundred & three hundzed fold. Plinie affirmeth, the increase in his time to be fiftie, e to god hulbands an hundred fold. About Monte Gibello, it is reposted by credible perfons, to be an hundsed fold. Italy is fo fruit, Italy, the full, that Varro calleth it the garden of the world, becaufe it is fo the world. fertile & wel planted in enerp place. Campania, being nil of come: Apulia, plentcous with wine: and Venefri, abounding with Dyle.

C 2

RIGO.

RICO. I have beard fav, that Germany & France have not hene in times pall bery fertill, and that they have benealtogether without Clines, a now we fiend country more fruitfull, that year beth greater abundance of all things. Where can you finde better wince, then about Bauace and the Rhine ? A lycake not of their The fruit - areat fare of graine, Bines of gald filner iron, and lead. In the fole fie of countrie of Thurin in Oermany, it is layd, that after lubeat once Gemanie folgen, the ground will pield Mie of it felfe tivo reves together.

CONO. Dea, and in our Countric here lue have ground that will beare Witheate enery pare. Rave ford being once fowen with. us, both oftentimes vield his Crov two vieres together, without fowing or labouring.

R 1 5 0. Clader the Porthren Pole, it is reported, the ground is to fertill, as they folive in the Mouning, and reave at Rome. In The fruit- Barbary where the ground is low, they plant buder the Date trie funcfie of the Diine, under the Dline the Figge trie, under the Figge the Barbary. Domegranate, buder it the Cline, buder the Cline they lowe TTheat, and buder wheat Pulle, all profpering one buder the o.

thers hadow, and reiding their fruit the lame perc.

CONO. That made me to fav, that the ground followes the disposition of the heanens.

RIGO. 15ut fith in all places the ground is not of like goods nelle, what if we chance buon a leane and a barren ground, as beathy, builty, and grauelly ground: may thele be made fruitfull, and mended bo Art ?

CONO. Clercip well, there is no countrep that the molt grav tious Lord bath left without fufficient yeld if labour and trauch benotrefuled.

RIGO. Thatfkill 7 would gladly underfand.

Of dung-CONO. It is brought to palle diners wapes, principally by counging and difigent labour : and to this end ferue those heaves of doung that I lately fuelued peu.

RIGO. I pray you let me instu tohat doung both mote enrich the ground.

The forts

CONO. Varro and Columella his follower, appoint the fosts of doung. of dounds: the first of foultry, the next of Den, the third of Cate tell. Of the firft fort, the beft is that which is had out of Douce houles, the nert is of Pulline, fall other fowle, except Ocile and

Duckes.

ing of ground.

Duckes which is hurtful. The people in the old age had fuch fore of Poultry and Fowle, as the doung of them fuffiled for the manus ring of their ground. The next to this, is mans ordure, if it be mired with other rubbilh of the houle : foz of it felfe it is to hot. and burnes the ground. Mans vine, being fire moneths kept, and Vrine. powed byon the rotes of Apple tras and Ulines, beingeth great fruitfulnelle to the tries, and giueth a plealant talte to the fruit. In the third blace is the doang of Cattell. whereof the beff is the boung of Affes, becaufe this bealt both chain with molt leafure. whereby his meate being well digefted, is made the profitabler douna. Dert to this is the doung of Sheve nert of Goates then of Oren, and Dorles: the work of all of Swine, very hurtfull to Come, but bled in fome places for Gardens, forlacke of other Doung, but is a great breder of novfome weds : pet Pline femeth to allow it, as the filth of a filthie creature. The doung of Borles likeinife where the Horles are fed with 15 arley. Doth bred great Hore of weds. The Lupine before he beare his cod is molt come mended, being turned by with the Plow or Dattocke, and lavd in bundels about the rotes of Tras or Ulines. Where they have no floze of Cattell, they ble to mend their ground with fraw and Ferne, & with the Kalkes of Lupines, and the branches lavo toace ther in some Ditch : hereunto you may call Alhes , the filth of finkes and privies, and fraw, with duft and other things raked tos gether: but in the midit, you must lay fome found matter against the breding of Adders & Snakes: allo Bemlockes, Walmort, and the wedes growing about willow Trees and Ferne, with other fuch rotten wedes, vou may gather and lay buder your Sheve. They that owel in Brauely and Deathy grounds, doe take the Turnes of the Earth and the Beath, and laving them in heaves poludzed with a little doung, luffer them to ive and rot, and after lap it bpon barren ground, but specially where they keye great Hore of Shape they call into their folds fuch Turnes pared from the ground, Columella counts them but cuill hufbands, that haue of every one of the leffer kinde of Cattel, leffe then a Cartload of Old dung boing in 300. dayes a each of the greater fort ten load, belior the belt for filth and durt of the yard. This is also to be noted, that the dung Corne, that hath line a pere, is beft for Come, for it both is of fufficient doing for Erengeh, and bicodeth leffe webes, but upon Beddolo and Bas Meddors.

A 2

Auren

Withen you worke, your Oren muft be poked euen together, that they may beato more handfourly with their heads at libertic and leffe hurt to their neckes. This kind of poaking is better liked of This draw. many, then to be voked by the homes: for the Catteli malbe able ing with to draw better with the necke and the breff, then they thall with the head. their heads: and this way they put to the force of their whole bes is yled in the vpper dies, whereas the other way (being reffrained by the poke on parts of their heads) they are fogricued, as they fearcely race the byper Fraunce & Spaine, part of the earth. Withere houles may be bled, their ble is moze . commedious for the Plow, and the femer of them the better: for many horles draw to halfily, a make to large Furrowcs, which is not god ; whereby wee fie the ground to be creellently well plowed in Gelderland, & about Coleyne, where they plow alwairs. The like with two horles, going very loftly. An Fraunce, and other places, is yled with vs in where they plow with Oren, they make their furrowes rather ... Norfolke, Depe then broad. Where the ground is ftiffe, the coulter mut be and Linthe greater & the Gronger, that it may goe the deper: fog if the colnihire. cruft of the earth be turned by bery broad it remaineth ftil whole, whereby neither the wedes are killed, not the ground can be wel harrowed. The furrow ought not to excited one hundzed & twens to fot in length, for if it doe, as Columella faith, it is hurtfull to the bealts, because they are to much mearied withall: but this rule. where the fields are large, is not in many places regarded, as in the Countrie of Gulicke, where the fields are great, their fur. rowes are drawne bery long. Dou muft not plow in wet wea. ther, not wet ground, not when after a long drought a little raine falling hathbut wet the byper part, a not gone dape. If it be to wet when it is plowed, it both no and that pare. Dou muft there = fore have a regard to the temperature of your leafon, that it be neither to dip not to inet: for, to much moifure maketh it to dur. tie and to areat dyoneffe maketh that it will never mosks well : for evther the hardnes of the Carth reufeth the Blow.o: if it Do enter, it breakes it not finall enough, but turneth bp great flakes, hurtfull to the nert plowing. For though the land be as rich as . mould .: may be, yet if you goe any depth, you thall have it barren, which is turned bp in thele great cloddes , whereby it happeneth that the badde mould, mired with the good, ycildeth the worler Come.

Dead

Telhere

Wahere you have ploined in a dy featon, it is god to have fome. molfure in your fecond firring, which molfining the ground, fall make your labour the lighter. Tabere the ground is rich, and hath long borne water, it is to be firred again when the weather war, eth warme, and when the wedes are full growne, and have their. fiedes in their toppe, inhich being plowed to thicke, as you can fcarle fe where the Coulter bath gone, btterly killeth & Deltrops eth the wedes : belides, through many firrings, your fallow is brought to fo fine a mould as it that need bery little or no barrow, ing at all when you fow it : for the old komans, as Columella witneffeth, would fap that the ground was ill hufbanded, that after folying had need of the harrow. Descouer the good hufband mult Trialles trie whether it be well plowed of no, g not onely truft your eyes, good which (the balks being couered with mould) may cafily be deceis plowing. ned, but trie it with your hand, (which is a certeiner yaufe) by thuilting downe a rod into the furrow, which if it vierce a like in enery place, it theweth that the ground is well plowed. If it be Iballow in one place, & depe in another, it declares the ground to be cuil handled in the plowing. If you are to plow byon a hill, you The plownuit plow overthwart, anot by and bowne: for thereby the incon, ing of a hill nenience of the ftepnes is met with, and the labour of both man and Cattell is lightned : But herein you mult beware, that you ploto not alwaics one way, but fointime higher, foinctime lower, morthing allope as you hall fie caufe. Touching the featon of your The beft plowing; it muft be chiefly in the fpring, as the Poet wel teacheth: time of When as the pleafant fpring,&c. For in Summer the ground is to hard and churlifh, and in Winter to foule and dirtie : but in the Spring the ground being mellow is cally to be wrought and the wedes are then belt turned in , which both do god for the enrichs ing of the ground, and plucked by by the rotes before they have . fieded, will never spring againe. And therefore with bs, we ble to begin to ploto about the middelt of March: but in landy and light ground, they ble to plot in the middelt of winter, if the fealon wil fuffer. Plinic is of opinion, that fiffe ground allo thould then be firred. A flender and levell ground, fubica to water, would be firft plowed in the end of August a firred againe in September, and prepared for folwing about the twelfth of March. The light billy ground, is not to be broken bp in Summer, but about the Balends

10 m

plowing.

Ralends of September: for if it be broken op afore, being barren and without ingee, it is burnt op with the Sonne, and hath no gwonelle remayning in it. Alet ground, fome would have broken op after the Joes of Aprill, which being plowed at that time, thouto be threed againe about the tenth of June, and after againe, about the balends of September, according to Columellaes minde. But those that are skilfull in hulbandry, agræ that after the tenth of June, without great flore of raine, you shall not plow: for if the pare be wet, there is nothing to the contrary but you may plow in July. In the meane time, beware that you deale not with ground oner-wet, as I gaue you warning before.

RIGO. Bay I plow in the night, if Flift?

Plowing in the Night, 1 1

CONO. Bea. very well, in Summer time, and in hot count trics you may begin in the evening, and continue till the Sunne rife, that the molfaire and fatnelle of the ground, may remaine Chando wed boder the clod : and that the Cattell through overmuch heate of the Sunne, benot difealed noz hurt. How oft pen thall plow the ground that you meane to fow, partly the nature of the loyle, and partly the condition of his lede will teach you. as when we come to it, 3 will tell you : for it is not nebfull to fir a gravelly and a light ground, to often as the fliffe ground : pet we finde, that land, the offner it is firred, the better it beares. So that for fome fode, you muft not onely twyfallow, and the fallow your ground, but allo fourefalloin it, as they ble in the fruitfulleft places of Italyand Germanie. In Milnia and Auftria they plow but twile. Stiffe ground, as they commonly doe in Italy, is beft to be folwed upon the fift firring : in Tulcan, upon the ninth. Thus hath every Countrie, both in this, and other matters, his falbion, according to the nature of the ground.

R 1 G 0. But may I not folde one pæce of ground euery pære without refting ?

CONO. There are fome grounds you may fow perely, as in Italy, and in Aufria, t likewife in fome parts here about the Risuer, that are fruitful either by nature, or by ouerflowing. In other places you must observe the old laying of the husband, Take not too much of your ground. Virgill would have ground reff euery other pares inhich if you have flore of ground, out of all boubt is beff. Dereof had the ground that is followed cuery pare, his name

In

in the old time : but commonly even the beff around remireth reff the third, the fourth or (at the farthelt) the fift perce ... Varro Insiteth, that in Olynchia the land beareth every pere and every third være moft plentifully. But if pour will do well, pan muft let it lue every other viere according to the nature of the forle. or elie toine it with lighter live, that loketh out leffe the fubitance of the ground, as Lupines & others, that we will thostly intreat of. It is allo much to be confidered, whether the ground that you vioin be lay ground parely fowne, of fallow: If you break by nein ground. if it he rich, heavy, and prepared for fied, it fufficeth to plow it once. and to fow it immediately, and harrow it. If it be light & granelly ground, you mult thepfallow it, fpecially at the first breaking by.

RIGO. Dere you speake of divers tearmes belonging to this frade, I play you make me buderfand them, befoze you proceede any farther.

CONO. This Art, (as likewife all other) hath certaine words peculiar, and belonging to it felfe: and because funday men of god words belearning haue herein biene veceined, left my matter Would be longing to marced with parke and frange trarmes. Twill Diclare the words husbandry as playne as F can, digreffing a while from my former furth.

in a constance of

RIGO. A befæch vou heartily.

CONO, Wie take Agrum, a. Field in our fpiech, not foz, a. Jus Agri Veca, rifoidion, a Diocelle, oz a Shire, as the old lawiers take it, but with Iabolenus & Florentinus, we count it a parceil of around, either cas rable of paffure. Ager, Arous, of Aroum, be call carable ground that is to be plowed and fowne. Varro would rather haue it called Aratum, and not Satum. The field that is called Reflibilis, is that which is renued, and every piere fotone, called of the Greekes παλομφιής becaufe his fruttfulneffe continueth to the next pære. and veloeth his croppe enery vere. Ager Nouslis, is called of Varro, the ground that hathbane fotone and fallowed : of Plinic counted to be folune cuery other piere : with the Lawyers it is counted ground new plowed, that hath lyen a vere: we according to the bulgar speech (for we muft speak with the moft and Judge with the fewelt), doe call Nouale Agrum, that which is new broken by, and hath not before beine plowed, whereof commeth Noualium Decima, the Tithes of new broken-boland: pet 3 know there are fome learned that count it that, which after his

Diners Latine interpreted.

22

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trop lies lap. Veruactum is of Varro taken for that around, that in the fuing time is furned op, and hath bene for a while fparco. Dftentimes is this allo called Nouale, both the field that hath lie en a vore, and that which is broken bp the first fpring : for thus faith Varro : There is great difference whether you fow in bne tilled around, or in that which is parely folone, and is called Re-Ribilis, or in that which hathlien awhile, and is broken bp in the fpring. Doteouer, both Columella and Plinie Do ble.not feloome. Veruaction, for ground new broken up in the fpring, taking their reafon of the time. The field is faid to be plowed, to be flirred with the plow, when it is turned bp. It is broken up when it is first plotved, tying in great clobs. The fecond plotving is called Offringere Agrum, by Trerare, to plow againe : Terriare, to thufals low it. Ager iteratus, and tertiatus, be binall words with Columella and Plinic. Nouare, is to change the ground, well hulbans bed before, and to plot if and prepare if for the folving. Occare, to harrow it as Varro faith, is to to breake it, as there remaine no sion. The harrow is an inftroment croffe lettufed, to breake the clods withall, and to couler the feedes. Cratice is likewife bled in the fame fignification. Atrare is, when that which is folune and come to fome growth, is turned in with the plow. Plinie calleth Ararare, as it were Aratrare, to plow often that which is fowne. Sarrire, is to purge with the rake. Runcare, is to wave out of the ground notiome wads, for which is allo bled Auerruncare, # Deruncare : and of Columella, Exherbare, Paltinare, and Repaltinare, is to digge about the Aines. Paltinum, is a forked inframent be fed in the planting of Unes. Lirare and Occare, are almost one. where we plow to as me leave betwirt two furrowes a kidge, for the drie kieping of the graine, like a garden bed. And hereof is the frace called Lira, a Ridge, which the hufbanomen cal Porcas, becaule the place being valled high, defendeth the come from the Dater, and Lira Hortenlis, abed in a garden. Scamnum, a balle, is the groffe earth that hath fcaped the plow. Plinic willeth, that there be no balke made, not great clobs remaining, meaning the great turffe that is turned by at the first plowing. Scamnatus ager, is called of Vibius Vrbicus, that land which runneth all in length from Welt to Call, which if it be more of length then broth and ivety open the forth, is called Strigatus. The land it felfers allo called

called groke and raw, that is not well mellowed, which hath need to be leafoned with the heat of the Summer, and the cold of Elimter, and to be plowed in the Spring. It is also called rich, fruitfull, fertill : and that which is nought, and pellos not his fruit, is called leane, barren, hungry, so beinifh : also falt, bitter, formilh, where the water full continues : Elect, that fometime lies drie: Carbunkled, that is burnt with the Sunne, votten and mollie. It is also called pleafant ground, fixed, blacke, rotten, and mellowed, which are the fignes of god ground : but hereof I thinke I have now fpoken fufficiently.

R 160. That you may continue your spoch, I pray you goe to pour former matter againe.

CONO. TThen you have broken by your ground, if it be Novalis, as I faid, and not tilled before, you may follow it prefently, and harrow it, and if niede bie, rake it. The ground that is yierely folune, and that hath lyen spare, is to be plowed thrife, according to the nature of the foyle, and the field that you meane to follow.

RIGO. Pow you have told me how to order my land for lide, I pray you let me buderstand the losts of lide, and in what lost they must be folved.

· CONO. That mult Tose : The fiele that commeth of that Of Scede, which the Latines call Fruges, as Bulle, and Come, we here Doe and their call Fruges, all fosts of harucit graine : which the Germans call diverticy. which and appairo, because they are gathered in their beautic, and their riveneffe. Iulian the Lawier, calleth Fruges, all things where with a man is led. The ancient weiters doe bederftand it moze largely for all the fruits of the earth. Plinie denides it into fluo kindes: into Corne that arolues on care, as Galius the Lawier Des fines it : the other, that beareth cobs, as all kinte of Bulle, oz Peoware. Df the first kinde, is Wieate, Rie, Barloy, Bigge, Dates, Biechinheat, oz Buck, oz if pou will in Szielte Dwyonvees, Rife, and Lenten Wheate, though all kindes grow not in all plas ces, not have in every place all one name. In foure places von have not Lenten Wilcate, chieffp where there is plenty of 15ig. In other places they ble neyther Dates noz Backe. Of the kinds of Pulle are thele; Beance, Peafon, Lentiles, Thickes, Tares, Lintels, Lupines, and fuch like. And though there be funday forts Old Seede offæde, and enery Country hath his kinde, and folves fuch as beft forme. aarms

acres with their nature : pet generally this is to be regarded. that you fowe none that are old and daped, but the newelt : for old for both oftentimes, as they write, change their nature: as the fed of Colworts, that being fowne, turneth to Kaves ; and Kave led likelnife into Colworts. The fied of the firft pere is beft. of tino viere old worle, and of thie, work of all, thereft is barren and naught. The belt feo alfo is that inhich is waptielt, and weth in the bottome, and fuch as is full, and being broken, bath a god cos lour: fuch as is incinckled, and thin in the earch is to be theatme as may. There is also another neceffary note, to have the fed from firance ground, e from the insile to the better, and not the contrarie.noz from cold Countries into hot.noz from the foziward to the flow, & to be ware that it be not bitten with Birts, Bifc.oz Ants : and to profver the better. forinkle them before they be fown, with the jupce of Boulleke. If you mingle with your graine the fed of Bearfot, flow it about your ground, you that laue it from the any The order novance of birds. Doumuft foin your Kidges with an equall hand, of fowing. xai oualas, and all alike in enery place, letting your fote (fpecially vour right fot) and pour hand goe together: Wie, Barley,

Dtcs, t other, chiefly fuch as bear ccos, as Melium & Panicum, mult be fotone with a full hand, but Hape fix o onely with this fingers.

RIGO. A man muft ble his hand I perceiue, as the Barper, both, to makeit perfect.

CONO. Bemuft inded. And as we put more water to frons ger Wine, then we doe to finall, and lay the greater burden bpon the fironger man, and fome fomacke requires the fironger fod, fo fome ground may beare much feb, and fome alway with leffe : neither can it be certainely appointed, how much fied is generally to be call boon an Acre : though 3 know the old writers appoint ted a certaine quantitie to enery Acre, which perhaps might ferue mith them: but ine thould foalely deceive our felues. if we thould obferue the like in every place : firft, becaufe fome ground res ouireth more lede then other, as the ground is of fiffenelle or lightneffe : for the Riffer ground (as in Holland niere the Lahine) requires much læde. where lighter ground requireth lette. The timely folding, the thinner : and the later , as Columella faith, the thicker. Secondly , their measures and Acres differ, as the thing that at this day is not throughly agree byon, But now pou

you thall heare what fiele enery ground requireth. R 1 G 0. That I long to heare.

CONO. After long reft,oz the firft dunging,epther Barley oz mate is to be foune : but Mabeate , though it require god ground, yet if the ground bis to rich where it is fowen, it will groly to ranke, and lye leadge byon the ground. And there fore byon fuch ground, it is beft to fow your Wheat after a crop of Barley, Beafe.or Bucke, and after pour Wheat crop, to folge it with Rie: and then againe (if the ground ware not voze) with Barley. In very rich ground, immediatly after the gathering of Rape fied, plow it prefently for Bucke, whereby you may have two croppes in one piere. In the like manner Cabegged rape fomen after Rie, maketh tivo haruchs in one pere. Peafe, Beancs, Tares, and Fitches, and almost all Bulle elfe, requis rethrich ground, which afterwards may pierely ferue foz Waheat, Milium, and Rape. Plinic would not have Rapes folwen , but in hery well dunged ground: but we finde by erperience, that after a Crop of Rie, in meane ground, you fhal have the fame vere great Rapes. Sandie and grauelly ground, mult reft every third pare, for two or this vieres, that being then well dounged, you may folde Rie, or Buck, safter Dates. In god Balfure ground nelo broken by, you may folve Dates after the firft plowing, after that, Have fied, then Barlov, after that Wheat, or Rie, and at laff Dates, og Bie, if the nature of the Countrie be fog it. Withen this ts done, you mult eyther doung it. oz let it lye lay. 3f the ground be mellow after Barley, in fome places they fowe Millie, then Kabilh, after that Barley, and Wilhcat, as in Campania: and fuch around is fufficiently plowed, when it is fowen in fome place where Lenten Wheate is fowne, it refts their moneths, & after is fowen with Beance in the Spring, in no other wife map you tharge indifferent ground. If after tivo fealons of Come, you fold Buile or Bedware, the barrener ground muft reft three veres. Some will in no safe have pou fowe wheat, or Barley, in ground Harrow. that lies fallow. After ye have thus fowen your liede in ground ing. thrice plowed & weil prepared, then mult von ftraightwaies hars row it, which is done with a lettuced inframent full of tith, Drawen upon the ground, whereby the clods are broken, a the field sougred; in some places it is done with a boad to go to the Biola. which

lubich they call in latine Livare, Sometime raking is nedfoll. Raking. which in the Spring. lofeth the earth, made clunged with the cold of winter, and letteth in the frew warmeth. It is beff to rake Wheate, Barley, and Beanes twife. Dozesuer, they breake Rowling. alunder with the Rowler the greater and Riffer closs. Wabing is when the Come is knotted, the noughtic wats being plucked The time by delinereth the rotes of the Come, and foucreth it. To forake for forwing of the feation of Dowing, it is agreed bpon of all men, that there qualt to be no folging in Winter: for the Winter come, when it is folved before winter, appeareth above the ground fometimes within a leaven-night after, which if it bie follood after winter is begun,it fcarcely appearethin forty Daves after. Some bery fond, ly thinkeit better to foipe in the Spring, then in Autumne, Plinic Switteth that in Trevers the Barueft being in they have folged in the coldeff of winter, and caking their ground in the Spring, have had an excellent god crop after. Amongit our harneft feedes, there are fome harder, that are able to abide the winter, which are fowne in hot Countries, as Virgill faith, about the fetting of the feauen farres, which Columella underftandeth to be about one and thirtie daves after the Autumne Acquinoctiall, that is, the 9. Balends of Pouember, and in France and Germanie in Seve tember, and the beginning of Doober, as Rape fas, Wheat, Rie, Winter Barley, that are nourified in the blade all Winter, and grow by towards earing in the Spring. Some there be that will you to fowe before, onely in dry ground and hot Countries.

Some againe would have you to folve in cold Countries after Late for- the Autumne Acquinoctiall, in hot Countries later, left they ing alwaies foodlo flouriff before ininter, and be deftroped of wormes, or blas fayleth. fteb. Some on the other fide make hafte, faving, That foone fowing lometimes deceives, but late lowing ever. It is and reafon to folge timely in wet grounds, that the fade rot not with ouermuch moiffure : and later in dip grounds left lping long a not fprows ting, it come to nought. Allo, in timely folving, to folve thicker, because it is dow in coting: and in later folying thinner, left with the thicknelle it be choaked. Summer febrs, which are folwed be-Summer fore the riling of the feauen farres, & in the Spring, are Beanes, graine. Deale, and luch, Pulle, Millet, Panicum, Selamum, Summer, Barley, Flare, Bennye, Dates, Bucke, Sporia, and fuch other,

are

are fewed in the Spaing time. In Alia and Greece they foine all as they fay at the fetting of the feauen Carves. Poin, although there be certaine precepts of the time of folunny, and how much feede is mete for every quantity of ground, furchy, they might as 3 have lais before, for their owne Countrep and nature of their around, gine a kinde of guelle, but to betermine any thing herein certainely, there is no man that can bee it, but the ground and cuery mans owne pradile is herein the belt Mafter. One ancis A generall ent generall rule of huf bandy there is, wherein we are marned tule. in colo Countries to folve late, in temperate Countries foner, and in one hote Regions fonet of all. Eratofthenes faith, that India is fubied to much raines in Summer, and that then they fow Flar, Selamum, Rice, and Millet : and in Winter, Wihcat, Barley, Dede ipare, and other fruits that we have not. Heliodus, the Prince in his time of hul bandap, wils be to fow according to the cultome of Greece, his naturall Countrep. Virgil, Cato, Varro, Columella, and Plinic, appoint their rules for Italy, whole mindes if you will have followed in all other places, you thall but fiete to couer euce ry pot with one couer. But to come to the matter, ath the fedes of funder natures require funder times of folving, and divers foets of ordering, and that herein enery Countrep hath his guile, I will here (observing such customes as are most generall to them all) Leuerally thew you of eucry feet by himfelfe, and to Declare buto you the order of their fowing. And first, amonast all the fruits and graine that the earth both pield for our fuffenance, the chiefeft place is rightly given buto wheat, called in Grake me's in Itas lian Grano, in Spanish Trigo, in Dutch Weyls, in French Four- Wheate. ment, as a graine moft neofull for a man and therefore moft fruits ful, because God hath ozdained it to nourith man withal. It is wonderfull what pelo it hath bene of in fome Countries. Augustus his Deputie lent him from Bilaice in Africa of one graine of inheat foure hundeed beanches. And Plunie witneffeth, that in the fame place, one bufbell hath veloed abundred and fiftie bufbels.

R 1 G 0. There are that hold opinion, that this which the common people call Wheat, the Germaines Weyls, and the Pollanders Terve, is not the true Wheat, but a kinde of Ric, and that the true Wheat which the Italians call Grane, groweth onely in Italy and in Spaine.

CONO.

25

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CONO. That which growes in Italy and Cicill at this day. differeth not from ours in fathion, colour, not flowe, though the arsine there be fomeluhat great, and the flowze moze clammie, which maketh it that it cannot be long kept, specially about Rome. And whereas our Wheate is either bearded or pollard. firins is altegether polo : we call it polo of pollars that hath no Aanes opon the cares. And that we call the Aane, which grows stip out of the care, like a long pricke or a Dart, whereby the care is befended from the danger of Bires. With Virgill the Aane is. bled for the come, as the parke for the wheat. Gluma is the bufke of the come whole top is the Ame. Frit is the fmall graine leffer. then the come that arolives in the top of the rive care. To returne to the wheat, I graunt there are some that doubt of this wheat of ours, fuch hath biene the iniury of the time (as all things almos forgotten) we fearfely know how to name the fore that we daily fiete of For my part, I will follow common ble, as a Wiftris in fpeach. The old writers have written of fundry forts of inheate. whereof they have thought that molt neveral to be fowne, which they called Robus, as the fayzeft and waightieft. The fecond called Siligo, they bled in their fineft cheate. The third, they called Trimeftre, becaufe it would be ripe in thie moneths after the fowing. Though Columella alow no fuch kinde, yet was it most aunch. ent with the Breekes, and called Trimenon, growing onely in. the cold countries, In Thracia, they have a kinde that is rive in. tivo moneths, and is coucred with a number of hulks, against the retreame co'd of the countrey. In our Countries allo we have Wilheat and Rie, that we fow with our Summer graine, as we likely fe doe kave fiede, but to no great commoditie : for the wins. fer fieles to farre creive them; and being nourified in the earth. ali winter, they proue, as Theophrastus faith, of more substance and prefit. Among all these forts, Plinic recounter the inheat of Italie to be the beft, both for beautie and weight. Wie ble with bs onely two forts, differing in this, that the one hath finothe. eares without any beards, the other with long beards of Aanes. berp rough and tharpe, not much bulike to Winter Barley : in all other properties they are both alike. It is fownein Seps. for wheat tember, the featon being faire, the ground thrice plowed and well raked or harrowed, aithough you may fow it very well after.

Thetime

fowing.

once

26

once plowing upon ground where Weafe, Tares, og Bucke hath bene new's had of in a good loyle. Plinie & Columcila would have von fow of Talbeat and Rie, fue bulbeis boon an acre : but as I faid before, this measure is to be measured with reason. The at this day foin not to much inheat byon an acre, as rie, not to much rie, as barten. It is beff, if the winter be like to be cold, to fow the foner : if warme, the later. Wheat delighteth in a levell, rich. marme, and a dev around : a Madolved, wedv, and a hilly around, it loucth not though Plinic fay the bill pieldeth barder fuheat, but no areat fore. Afterit is fowne, it putteth out a great company of imail rotes, and appeareth at the first top or blade : it hath fun-Day falks, but fuch as cannot beanch all the winter, as other wins ter comeis, it is nourified in blade : when the Spring draweth on.it beginneth to spinole: byon the third or fourth isput thereof, commeth out the care, which firft appeareth inclosed in the blade, it flowzeth the fourth oz fifth day after: if it grow to ranke at the firft it is eaten downe with cattell, oz in fome place mowed: it is after weded : it flowces about the 10.0f June, foner or later, as the viere falles out, euch at one time almost with the Une : thoo noble flowzes, with comfostable fauour flourithing at once. Varro affirmeth, that the wheat lyeth 15. dayes in the blade. flourifieth 15. and riveth 15. After it hath flowzed it wareth greater, and as Theophraltus faith, is within fortie daies after full rive, wheres with the lateft they reape in the eight moneth. Dther fay in fire and thirtie daics, and reaped in the ninth moneth. It never cares, fill all his joynts of knots be growne. There are foure joynts in wheat, as Plinic faith, and eight in barley : but in our country and our Daies, both Wilheat, Kie, Barlev, & Dtes, haue but foure, and not that alwaies. Wefore the full number of the logats, there is no appearing of the care : which when it commeth, beginneth to dowze within foure or five dayes, and fo many, or little more, it fabeth. When the flowze is gone, the graine begins to fwell, and infoure or fine daves after, to rive. The blade of the wheate is fomething like a Sedae, but narrolver then the barley : the fpins Die, Maike, or Frame thereof, is imotherand gentler, and not fo brittle as Barley. It is closed in many coates. The falke that beareth the care is higher then that of barlep : the care groweth. more byright, and farther from the blade, the chaffe is lefter, Avieter.

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finiter, and more full of inpre, the care of wheate is out of order and buenen, as well of the Bollard, as of the bearded, whereas 25 ariep hath his care of juft number, and in perfect order. In Bactria, it is faid a graine of wheat is equall in quantitie to an care of our wheat. In Babylon, the blades both of wheat and barley. as Herodorus reporteth, are foure inches broad. Tabeat, as Columella writethafter the third folving changeth to Rie, which hath. bane knowne in Germanie, as I faid before in many places. Of wheat is made Amyl, the making whercof, Cato and Diolcorides teacheth. After wheat we fow with bs vie. There are that thinks it to be that which the Gickes call shows though Homer take chupay, for a kinde of fode for horles : fome others take it for a kinde of wheat. Herodotus laith, bacab was made afit. Of Laurentius it is called Far. Of Gafa, Siligo. Diuers learned men call it Secale, and take it for Plinies farrago. The French men call it Segle. The Dutchmen Rock, The Italians, almost as the Latines Sagala : the graine is fomething blacke, and maketh blackifh bread, But to paffe over all controverfice, I follow the Country speech, e take Siligo for our common Rie, which is fowed immediately afe ter wheat, about the end of Deptember, or in the beginning of De= tober in god ground : in fandy and grauelly ground, it is fowed in February, g called Summer wheat:it requireth the beft ground, warme, + faft, and refnfeth not light ground # grauellp, foit be hels ped with cong : it loueth wet ground as ill as wheate, then both require to be folnen in a deve mould and a plaine foile : but Rie is lowed a little after wheat, in the folwing whereof, you mult occupie a third part more then of Wheat : it prospereth lightly in . any ground, and many times with the yold of a hundled for one. It mult be folwed after the third plowing, as Wheat, and harrowed much after the fame fort, the falk or feale thereof, is fmaller then the Wheate Galke, taller, and Gronger, his eare hangeth downes mards, and therefore more fubled to blaffing, becaufe it receiveth and kozeth the water that fais while it flowzeth, and fuffereth the biolence of mills and freits : the frain thereof is gentle and flerible, feruing for Times and coucrings of houles. Low followeth Barley, accounted in the clos generations among the weathick fort of graine, and not of finall effimation at this day. The Itas lians call it Beade of Beaue, of Orza : the Spaniares Ceuada :

Barley.

the Dutch men Gerlt: the French men Orge: the Grecians Holding and though it be bled in Giece and Italie, and fuch warme and fruitfull Countries for Cattels fod as Homer alfo witheffeth.vet in the Portherne Countries it supplies the place both of breed and wine. There are of it two forts, Hexaftichon and Polyflichum, whole eares are their, foure, and fometimes fire fauare, and divers earcs foringing from one graphe, cuery eare contaming about fourefcore graphes, fo wonderfull are the gifts and bleffings of Bod. The other fort is called Dillichon, having in the care but two ranchs or orders onely. Againe, there is one kinde of it to be fowed in winter, another fog fummer. The winter Barley is of better pield, but it is some burt, specially with much wet a froffs following. There is nothing moze hurtfull to winter Come. for. cially Barley, Hape febe, and Rie, then the wet of winter, nipped with often frofts, and after a warme thaw, to be prefently frosen againe : both the forts of Barley require ground that is bery rich, Winter Barley, after two oz thze plowings, is to be fowed in September : Summer Barley in Darch oz Apzillafter twife plowing; and many times, necellitie forcing, after once plowing : in the foluing, you muft occupy moze fabe by halfe, then in foluing of wheate : it requireth a mellow and a fat ground, and therefore is belt fowed, where the ground is molt manured. The winter fede flowzeth in Day, and is ripe in June at the furtheft. This kinde was not wont to be fowed in thele parts, but great nums bers. now moued by my example, do ble and receive great gaines by it. The fummer Barley in many Countries is rive and ready in their moneths after the folding. In Aragon, as Plinie writeth, it maketh double harueffs euerp piere. The feuenth dap after it is folone, it commeth bp, and one end of the fede runneth downe in rote : the other, the foner fpringeth, & commeth by in blade: the greater end of the gravne maketh the rote, and the flenderer the flowe. In other gravne the rote and the blade fpring both from one part, the blades of both kindes are rough. It must be gathered with more spied then other graines, for the fraw of it is very brite tle. Df Barley is made, as Diofcorides witteth, both Bare & Ale.

R 1 G 0. F like your Biere you have ercellently well, F pray you tell me in what fort you make it ?

CON O. I will not hide my cunning in this matter. By Barly

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15

27

is firit flieved in a Cefferne of inater a day or tino. if if be winter fade it is harder hulled, and requireth the longer watring. The Summer graine is thinner, and requireth a leffer time. When it is watred. I div it byon a flore or a hele, till it fivell and breake, putting out as it were little berds or threas, if it be land. thin, it will in fummer, fpecially in Darch, Dip & breake of it feife without any fire. Dou mult take god had, that in spesiving it e. pen not to much, and lole his floinge. This being done, 3 grinde it, and put the Deale into a Dalk- fat, whereunto I put my licour fodden, and after let it fothe this of foure times, adding buto it, both for wholefommes and talke, the flow e of the Dop: after this, 3 put on Daff. and let ita working, and then cleanfe it. The more it is cleanled, the wholfomer & clearer it is : that which commeth of the fourging, is kept both for 15 relating and Baking: the drinke will be the better, it you put to it a fourth part. oz a firt part of wheat : the more Come you lay on, the pleafanter and better coloured will vour Bere be. Dour greateft care muft be to fe it well fodden, well cleanled, and well hopped, otherwife Balt of it felfe will fone corrupt. Obferuing this order, your drinke thall be both wholesome & pleasant: that endureth beft and longeft, that is breived in March. There is made of Barley Alica, a reafonable god meat, and Prilan. Dow they muff be made, you may read in Plinie: Pert to wheat and barley, followeth Zea, which the common people, both in Italy, Spaine, and Flanders, call Speles, the French call it Elpelica, with Homer is greativ commended, (ei Awees acong the fields that beareth the Zeam, being as Galen faith, the meane betwirt luheat and barley. for he hath the qualis litics of each of them, t is of two forts, the one in Ralke, iopnt, and . sare, like to inheat and carrieth in every hulse two lades, and therefore is called Rinounos, the other having both falke and ears Moster, and but one graine in every bulke, growing into ranchs, sin the too refembling Barly with his fharpe Sanes. In Italie, fpecially about Mirandula and Concordia, it is bled in prouender for Worles, it is not in thele countries in vie. I would fow it here, ath the ground will ferue for it, a that both bread a bunke might be made of it here well, but that it is fomething troubleforme to arino, becaule of the double hufhs. It defireth a moift ground, rich and god, it is fowed after the fame maner that wheat is fowed, . HT:

742.

in September o: October : it flowgeth in June, and is ripe in July, bery meete for colde Countries, becaufe it can abide froffs and farmes.

RIGO. There is(as Fremember)a kinde of wheat called Far, Far, A doauncient people called it Adoreum, that groweth in many Toun, reun. triss.

.28

CONO. Dou fay true, for with the olde fort, Far was a genes rall name to all come, as wheat Far, Barley Far, and Rie Far, and when mils werenot vet deuiled, they did beat their come in moza ters, wherof came, that the meale was called Farina: pet after, was the name of Far onelp given to Adoreum, though Columella called it alwaics Far Adoreum , mabing feure funday foats of it. The Frenchmen call it Brance, the Italians Sandala, the Spaniares Elcandia, the moft people of our Country call it Farro, the Dutch Keskorne, whole graine is very like wheate, but that it is thorter and thicker, and where wheat hath a clift, there hath it a tiling. It is heauter then barly, & lighter then wheat, it yoldeth moze meale then any other Come. The people of Rome as Plinic faith, lined with this Come at the first their hundred yores, it groweth in Egopt without Aane, with a greater care and a waightier: it hath in the falke feauen joints, and cannot be cleanfed ercept it be pars ched. France hath two losts thereof, one of a reddift colour, which the people call red wheate, the other whiter, which they call white wheate : the care is their fquare not whike to fpelt. In Stas lie they make pottage of it for their labourers. Far or Adorcum, Virgil would have fowne before the fetting of the feauen Harres, after the Aequinoctiall of Automne : but in foet and cold barren grounds, it is beft to fow it about the Balends of Detober, that it may take Diepermte before the fraging and cold in winter. It is folved in low ground, watrify, and chalky: after it is folwed it muft be harvolued, raked, and weded: the raking lofeth in the fping, the heany thades of winter. In raking or harrolving, you mult take hied, as I faid before, that you burt not the rotes : werding when it is knotted feuereth the Tome from all annovances. The French men fow it in hollow furrowes, because it is very fub. ied to blafting, thinking thereby to prefere it both from blaft and midely. To folv it in hie ground is difci mended, though it profe per there well inough, because cattell cannot away with it, for the Barve

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tharpnelle and ruffnes of the cares and becaule it require th great labour in getting off the hulks, which if it be not clario ef. is nois ther goo for mannor beaft : the buckeane chaffe both hurt with the Courth, the Cattels lungs. Amongft the winter febes, Kave foode boil: challence his place, which I take to be the fabe of the Rape, which Plinie maketh for his third kinde, and wilde, whole rote, like the Raddich, runneth in length, the leaves being ruffe. like the other kindes, and the falke bully and full of branches : the rate of it is god for nothing, but is onely fowed for the fiede, whereof they make Oyle, ferung for vore mens Bitchins, fafts. and lights, fuccially in Germanic, where they want the Dyle of Oliues whereby artifeth great gaines to the hulbandman. In the hot Countries where they have other Ovle inough, this fird is of no ble, but in fæding of Birds : it is fowed in the end of Auguff. o; the beginning of September: how be it. fometime it is fowne in Darch among the Summer fedes, but to nothing to great a profit : it is caft into very rich ground, or well manured, thrice plowed and well tilled, it muft bie fowed very thin : for being a berp fmall fied, it must not be folged with the full hand, as wheat is, but onely with their fingers : it flowzeth in Parch, oz thereabouts, as the piere is forward, and continueth his flowing a long time : the flowce is vellow, and bery fluct, wherein Biss doe much delight : as fone as it hath left flowing, it is prefently ripe : it groweth two cubits in height, bearing a plentifull fiede in little finall cots, it rendereth for one bufbell, a hundred bufbels of fode. Hitherto haue I fooben of Winter fodes, now muft 3 tell vou of luch as are fowne towards Summer.

R 1 G 0. Will you speake nothing of the Rape rote, which is greatly occupied of the hulbandman, and not to be despiled as a thing that groweth in great quantitie, and is mately good meateboth for man and beak z

CONO. The Kape is named of the Sziekes yeytide, in Italian Rapo, in Spanilly Nabo, in French Rauen. The ordering of which, though I twee it to belong to the Sarden, wherein you are able to fay more then I, yet because you require it, a that fometime the hufbandmen do plant them in their fields. I wil tell you as much as I know therein. There are 2. kinds of them, the first doth rote all in length like the Raddith, which in many places of Ermanie

Rape.

,29

Germanie is bled for a daintie meat: the other epther groweth in great roundneffe, og elle berp flat : thep are nourifhed with miffs, frofts, and cold, thic moneths together, and grow to an ercieding greatneffe. Plinie wetteth, that hee hath fiene Rotes of them that have weighed fortie pound. Some lay, they have fiene of them that have weighed an hundzed pound. It is wonder. full, that of fo little a fied thould come fo great a rot. The Gres cians make two kindes of them, the male & the female, both com. ming of one feed, the male when it is fowed thicke, and the female when it is folved thin. There are two featons for the folving of it , opther in Barch, which will be ripe about the tenth of June, oz in July, oz Auguft, after the first ploiving, commonly byon the ground where Hie a winter Barley have bene newly had of. It is thought they are the flucter by lying in the ground all winter, when as the encrease is not in the leafe, but in the rote. They are allo lowed (as Plinic writeth) in hot and moil Countries in the Spring, and will the better encreale if they be fowed with chaffe, who would allo have the fower naked, and in calling the fiede, to will and lucke to himfelfe, and to his neighbours. They are preferued from the Caterpiller, which commonly confumeth the young leaves, by mingling the fed with Sote, og fixping them all a night in the invec of Boudieke: Columella affirmeth, that be himselfe hath feneit proued.

RICO. Polo procade (Jpray pou) with your Sommer lads. CONO. The Sommer fiedes are almost all fuchas are ripe within this moneths, or foure at the ottermost after they are fowen , and fome of them fonce, if the ground and the weather be god. Among the Sommer feedes we will firft talke of graine, and after of pulle. Of the graine, Dates are the first that are Oates. fowed, though Virgill count them barten, & Plinie counteth them rather woos then come, affirming, that Barley when it profucs reth not, will many times turne to Dates : yet the Frenchnicn e the Germanes count (it at this day) the beft prouender for Dor fes, and foo for Cattell. Plinie alfo witneffeth, that the Gere manes bled to make vottage of Dates. And Diolcorides maketh mention of Daten pottage, πόλτος in Beaus yinna, pottage of gruell is made of Dates, it is called of the Briekes Beaus, in Italian Vena, in Spanich Auena, in French Auoine, in Dutch Hauer.

Haver , which though it grow not commonly in Itale, vet boon Monte Ficelto, and in the kingtome of Daples about Siponto it is found. Thee have among tos two kindes of them, one full and lucightic, feruing in Dere pieres, to make bread and brinks of, specially if it be medied with a little Barley, and this kinde malvereth in rich and new broken by ground ercedingly. The other kinde is lighter, which the common people call Clock and Brumhauer, it is very light, and vældeth but little flowre noz fode: it groweth byon fandy and barren grounds, and ferueth mell for Cattell and for Horle: both the kindes have bufby toes. from whence hangeth the fiede in like wife refembling the graffes honver: the flow 20 of it is white. + from one graine, there foring geth divers falkes: with Diofcoridos. Bromos, is a kinde of Dats that refembleth wheat in the falke and the blade, foroweth like inilge inheat. Theophrastus calleth it anyuhora. The Dat is not Dangerous in the choyle of his ground, but groweth like a god-fels low in euery place, where no fiede elfe will grow. Dfthe like di. fuofition almost is Buck of Bachloheat, onknowne to our old fae thers. It is called payonveou 15 echweat, or ushaunveou, 15 lack Inheat, though ushaupen fignifieth another graine. I had rather call it 15 wehinheat, because the graine thereof is the weomerd, not bulike the Beechmaft both in colour & forme differing only in the finalneffe. The falke is berv great, & fraked like to the greater fearne: it hath many branches, with a bully top, a great lost of white flowers in a knop, like the flowers of Cloer : it flowseth long together, a after appeareth the graine, firft white and grass nift, in fape thaccornerd: after they be rive the colour chaungeth to blacke or brownilly, like a Theffnut. This graine hath not long fince bene brought from Kuffia the Portheen parts in Cermas nie: now it is become common, and bled for fatting of Hogs, and ferueth the common people in Deare featons, to make bread and Drinke withal. It may be fowed in any ground, and is fowen in A. puill, May, and in June, after the reaping of Rate fied. Dou muft fowe leffe of it byon an Acre by a fourth part then of Wheat or Rie: it is much bled to be fowed boon the ground where lages grow, whereby the ground both vield a double crop in one viere. When it is fowen, it commeth by, if it be moit weather, within foure of five daves after, having two leaves at the first appearing, not

Buck.

not much bulike to Durflaine. Amonalt the fommer febrs is alfo received fommer Barley, which frem the Sunnes entring into Sommer the Aquinochall, till the end of March & Auzill, is folven, and is Barley. reaved againe for the most part in three moneths, or at the utter. moffoure. It requireth (as winter Warley both) a rich and a mellow ground, to be folved after twice plowing, though fomes time for necelliticit is fowed after the first plowing. And though it vield not to and not to perfect a graine as the winter Corne Doth luhole graine as Theophraftus writeth, is farre more pers fect and of fronger fubitance, bringing greater frain and incide tier cares, vet becaufe it is harder hulked, and the Summerfeed more fine and gentle, is therefore of molt men befired, and count ted to pield moze flowse then the winter graine : fome againe Millet. meferre the other Miller, called in Latine, Millium, in Orete neyxeon, in Italian Milio, or Miglio, having as it were, a thous fand graines in a care, as Feltus fometh to anow, in Spanifh Mijo, in French Miller , and in Dutch Hyers, where they make pottage of it and bread. The Ruffians and Bulcouians are chiefe ly nourified with this kinde of pottage, which they make with the flowe mingled with milke, and the blod that they let from their houles. The men of Ind, as Plinie fauth, know no other graine but Barley and Dillet, which grew in his time plentio fulleft in Campania, it is the beft leanen that may be made, nels ther is there any graine comparable to it for waight, that more increaseth in baking: foz of one bulhell hath bin dzainen threescoze pound of bread, & a bulhell of lodden meat, made of three quartes inct and bulod. It is folwed at this day in every place, though very little in the low Countries: it groweth with a falke full of fornts a cubit high, a leafe like a rede, a round and a fmall feede hanging downe in long vinunes with many tops : it groweth fometime feuen fote high, it delighteth in a watrifh mozy ground, and in grauell, fo it be now and then overflowne, it hateth Dife and chalkie grounds. Some giue counfeil to fome it firft in a cold and foet ground, and then in a hot ground : befoze the Spring pou must not fome it, for it delighteth much in warmth. A little febe of it, is fufficient fora great deale of ground: if it be folued thicke ; it comes to nought : a great handfull will ferue a whole Sire, wherefore in raking, you must rake out what is more then

30

then nedfull : an acre beareth fourtie buthels, if it be wellfolwed. every fede vieldeth about a vottell. At is forbidden to be fowne as mong Mines of fruit Tres, and muft continually be weeded and raked. When the care is full growne, it must be gathered with the hand, and ozved in the Sunne, left the bot weather thatter the fiedes. This graine map bery long be preferued, for being well layo by where the winde cannot come, it will well laft an hundzed pære. There is another like graine that they call Ins dian Dillet. with a great graine, and a blacke and big reedy falke. which was first brought into Italie in the raigne of Nero, which (as Plinic faith) fuas called Loba, whereas Loba are rather the Cods of all Bulle, and Phoba, the manes and toppes of Millet. as it appeareth by Theophraftus. Panicum is called of the Giels Elunoc, of the Dutch Plennich, 92 Heidengreifis, of the Italis ans Pannacho, the Spaniaros Panizo, the Frenchmen Paniz. fo called of the little Bannicles, wherein the feed lieth. It commeth by like Millet, with many leaues, and flippes, glittering with a reddilb bulbie top, full of fædes,like Multard læde, fame pellow. purple, blacke, and white : it mult be ordered in all things almost as Millet : being fowed in Sommer, it is rive in forty dayes ab ter : in other places folved in May in wet ground. it is to be gas thered in September. The haruelt, and the ble of it, is almost all one with Millet . neither can it, as Millet, be fined without pare ching: when it beginnes to fpindle, it mut be well weded, leaft the wedes overgrow it : being well dzelt with Chefill and Milke, it maketh indifferent and meat: in bread it is not to much bled as Millet, for the bread is very drie, and crumbleth like Sand oz Alhes, being altogether without moilture oz cleauing: but the common people remedying that with Larde oz Dple. do makea thift with it as well as they can. They that dired about Pontus, are fago to effeme it aboue all other fode, asthe people of Navare doe at this day. An many countryes it is bled onely to fade Pigeons withall.

Pannicle.

Rife.

Dt the number of outlandify graine, is Kile, in thape as Theophrastus fayth, like Darnell, having a buthie toppe like Pillet or Pannicle, but no eare : his grayne is like the kinde of Barley, called Zea, the leaves are thicke like the leaves of Lekes, but hyoader, the talke a cubit high, the floure purple. This graine is

but

but gealon in Fraunce and Ocrmanie, but in Italie and Lume bardie common, where it is called Elvilo, and Menestro Delvilo, the French men leaving the first letter, doe call it Rison, the Orækes Equix, the Spaniards call it Arrols. Plinic suppose it to be engendred of the water Sedge. There is made of it Furmentie, as Horace calles it, Kile Furmentie. It is sowen in Parch, as Pillet and Pannicle is. The Indians (they fay) doe brule it before they soweit, to make it the lighter of digestion. And as Scrabo reporteth, they make drinke of it.

R 1 G 0. Withat fay you to Sclamum, that was greatly in ble in the olde time ?

CONO. Selamum is named with the Brokes onoa woy, the Selamum. AtaliansSelamo, the Spaniards Aionioli, the Frenchmen lugiolin. In times pafe, it hath beine more bled and areatly commended, both of Columella and Plinic. At this day it is knowen to a very few, as a great fort of fodes elfe are. in fo much as the very come that we daily feed of, we fcarcely know what it is. Some reckon ft in the number of Graine, and fome of Pulfe: the Kalke theres of is not like Millet or Pannicle, full of iounts, but playne and smoth, like a riede, the leaves thereof ruddy, the fied white, not fo bigge as Linfe), and is contained in little knows like Boppie : it is fowen before the rifing of the feanen farres, after the mans ner of Italy. Columella fayth, that he hath feine it in Cilicia and Syria folwed in June & Julp, and reaped in Autumne. It requires a mellow blacke mould, though it will grow byon good fandy around, & forced around, raine is hurtfull unto it after it is fowed, where as it both and to all other Braine : no arcat Cattell noz Acrimine will meddle with it, it hurteth ground berp much , becaule of the areat quantitie and thickeneffe of the falke, and the number of the rotes. Plinie writeth, that it was brought sut of India ; and bled both for meate and ovic. 13ut to returne to fuch graine as we are acquainted with. Amongle the fommer fiedes is Milcelin to be reckoned. The hulbandmen Doe fome, time make a medley of funday foats of fields, and fowe them partly for Cattell, and partly for hope that though fome of them faile, pet fome will growe. 15ut here must pou beware, left pou mingle not winter Come and formmer Come together, for that were a great oucrfight, and one of them must neves perify. Some

Some barley may well be mingled with Dates of Buck, as well for brewing, as for fæding of Cattell: and Dares or other like Pulle may be mingled with Dates, as very god for bealts. They are to be found in time and place as I have tolde before, in my feuerall entreating of them.

R 1 G 0. Nou haue well fatilfied mee for Graine and Come, pou may now (if it pleafe you) doe as much in Pulfe.

Of Pulle.

CONO. Bulle of Dedware, is called of the Griekes compia. the other parts of the fruites of the ground : of these there are funder fortes, as pou have fiene of Corne: fonte put Billet. Bans nicle, and Selamium, to this kinde, becaufe Columella fometimes. puts them in the number of Graine, and fometime of Bulle: but I following Plinic herein, doe put them among & the kindes of Graine, accounting those to be Bulle, whole fiedes are contained in coodes, as Beanes, Beale, Lentiles, Tares, Chyches, Fitches, and fuch like which all are to be fowen in the foring. Dfall kinde of Pulle, the greatest honour is due to the 15cane, as Plinic witneffeth.as to a Bulle that is most commodious for man and bealt. In Broke it is called nuapos, in Italian and Latine Faba. in Spanilh Haua, in French Feue. in Dutch Bonen. This amongit all other Bulle groweth in height without any flay, it hath a thicke leafe, a created flowie of divers colours, spotted white and blacke, inhich Varro calles the lamentable letters : it hath a long codde, his fruit within broad, like the naple of a man, of dis uers colours, it appeareth at the first with many leaves like a Weafe and not with one alone like Wheat. It is fowed first of all other Bullein the fpring time, as Virgill will haueit, and timely, because of Fabalia, which is the offall of the Beanes, for both the cods and the Malke, is a fode that cattell much delights in. Columella reporteth how he heard a fhilfull busbandman fap, that he had rather have the offall of Beanes timely fowed, then the errsy of that which is rive in their moneths, you mult foice them in the encrease of the Mone, and after once plowing. It is faid, that if they bee enclosed in Goates downg and foined, they will wield great encrease, and the parts that are eaten or guainne, in the encreale of the Done will fill by againe. If they be folued nere to the rotes of Tras, they will kill them. Some holde opis mion, that if they be freped in Cavons blod, they will be fafe from all

Beancs.

all hurtfull webes, a that laved in water a day of two before they be fowen, they will grow the foner. The Beane Delighteth inrich & well bunged ground, as all other Bulle both: wet and low around it both not refule, though all the rell defire drie around it. fugieth not webing, being able to overgrow them. Df all other Bulfe it oneip furingeth with an buright falke full of knots, and hollow. And whereas al other Bullcare long in flowse, this flows reth longeft. flowzing fortie Dayes together, one falke beginning fuhen others end, & not all at one time as wheat, they coo in fune Dry dayes the lowelt part of the falke flowing firft. & to bulward ftill in ozder. So fruitful are thep infome places as you thall find one faike to beare a hundred beanes. The Beanes flicke ciofe to their Toos: the blacke in their tops, the Latines call Hilum, the cons Valuuli, the wormes that bred in them, Mida, Lomentum is the meale which the people in olde time did ble for the fmothing of their finns, Frela Faba was the beane that was but fmally bios ken, and hulled in the Mill. Refrina was that which they bled to offer in factifice for god lucke with their Corne. It is god to fixe vour Beaues in the water of Saltpeter, a day before you foin them, vou thal kep them from Mpuels, as (Palladius faith)if vou aather them in the ware of the Mone, & cherifh them, a lay them by before the encreals. Beanes, and all other Bulle doe mend the around that they are fowen in. The next to beares in weithines and folving, is Deale, called in Greeke wirog, in Italian Pile, and Peale. Pifelie, in Spanily Arvera, in french Pele, in Dutch Errettem, a Dulle that groweth with hollow stalkes and full of beanches. w ing byon the ground, many leaves and long, the cods round, containing in them round fiedes and white: though Plinie write, that they be cornerd as Chych, of which fort me have fome at this cap blewill, with flowes in thape like the Butterflie, purple coloured toward the milt. There are two forts of yeale, the one fort cos neteth to climbe aloft, & runneth by byon flickes, which with little winders he bindeth himfelte, s is for the most part only fowen in nardens: the other fort groweth low, screepeth byon the ground : both kindes are very goo to be eaten, specially when they be yong. and tender, they mult be folune in warme ground, for they can in no inite away with cold, they are fowed cyther byon fallowes, oz ratherin rich and parcely bearing ground once plowed, and as : all

32

all other pulle, in a gentle and a mellow mould, the featon being iparme and movif. Columella favth, that ground is made bery rich with them, if they be prefently plowed, and the coulter torne in, and couer that which the Doke hath newly left. They are folved among lummer Come, commonly with the firth. Firth Beanes, Deale, and Lentiles, then Tares and Dates, as is faid before. Deale and Sares muft be lowen in Barch and Aprill. and in the mane of the Bone, left they grow to ranke, and flowe out of order inhereas the beft forming for all other pulle & graine. is in the encreale of the Bone. There are that count Deale to be the Pulle that the Oreckes call deoles, the Latines Eruum; the Italians Eruo, the Spaniards Yeruo, the Dutchmen Eruen, of which there are two kindes, the one white, the other red. The latter is inide, and groweth in hedges and come fields : it is a Imall plant, having his leaves narrow and fiender, his flowe epther white.or medled with purple. arolning nere together like Deale, there is no great bufineffe about it it delighteth in a leane barren ground not movil, for it will be fuilt with to much ranches nelle : it mult be fowed before March, with which moneth it as greeth not, because it is then hurtfull onto Cattell. Eruilia is a pulle like Imail beanes, fome white. fome blacke, and others frece kled, it bath a falke like peale, and climbeth like a Boppe, the Coddes are fmoth like Bealcots. The leaves longer then the leaues of Beanes: the fioluze is a plealant fode to 15 cs. In France and Lumbardie it is called Dora, oz Dorella. Phafeolus in Latine.in Grecke ound 93 unmain, garden Smalar, fome call it Falielum, # Dolichium, among the Italians fome call it Fagiuoli, fome Smilace, de glihorri, others Faginulo Turcheles, others Lafanio, the Spaniards call it Frifoles, the Frenchmen Falioles, and Fales Pinccos, the Dutchmen Facelen, or Wilde bonen. It is a kinde of Bulle, whereof there are white, redde, and pellow, and fome foeckled with blacke fpots, the leaves are like Juie leaves, but some thing tenderer, the falke is flender, winding with classes about fuch plants as are next him, running by foliah, as you may make Arbours buder him : the coddes are longer then Fennigreke, the Graines withindiners coloured, and fafrioned like kidneyes: it prospereth in a fat and a vericly bearing ground, in Gardens, or where you will : and because it climeth aloft, there

33

there must be fet by them pairs of thurs, from the running tot's stops, it climbeth by on tracs, forming well for the fladowing of Arbours and Sommer honics. It is fewen of dimersfrom the Ides of October to the kalendes of Ponember in fome places, and with by in Barch, it flowseth in Sommer, the meat of them is but indifferent, the ingrenot bery god, the cods and the grams are eaten together, or like Sperage. The Jewes fell them at Nome, preferued, to be eaten rawe. Lens and Lennicula, in Greike Lyndes. φ_{xhi} , and φ_{axh} , in Italian Lendi is bon manaftre, in Spaniff Lenteza, in French Lenniff, in Dutch Linfen, is a pulle very thick and buffie, with leanes like the Tare, with their or four very finall graines in every cod, of all Pulles the leaft, they are foft and flat. The white ones for their pleafantneffe are the beff, and fuch as are apteff to fieth 4 confirme moft water in their boyling.

It is folune with bs in Germanie, in Darch and in Apzill, the Done encreafing, in mellow ground, being rich, and dave : vet Plinie would rather have the ground leane then rich, and the feas fon drie:it flowreth in Julp, at which time by ouermuch ranchings and mouffure, it some corrupteth. Therefore to caufe it quickely to furing and well to profeer, it mult be minaled with dry boung befoze it be fowen, and when it hath lyen fo mingled foure of five daves, it must be calf into the ground. It groweth high (as they (ap) when it is wet in warme water and faltpeter, before it be folven, and will never corrupt being sprinckled with 15 enawing and Elineger. Varro willeth, that you low it from the flue and twentie day of the Moone to the thirtieth. fo Challit be fafe from Snaples. And Columella affirmeth, that if it be mingled with albes, it will be fafe from all annopance. Cicer in Latine, in Gieke eeeBiv. 905. in Italian Ceci, Cicere Rollo, and Cicere biance. in Suge nift Garuangos, in French Chiche, and in Dutch Cicererbs, is a Ciche. bulhic kinde of Bulle, having a round Cod, & therein a couple of the cornerd fiedes, whereof there are that make the kindes, luhite, red, and black, differing onely in the colour of their flower: the beft kinde hath a flickie falke, croked, little leaves indented, a white, a purple, or a blacke flowre. And whereas other pulle have their Cods long and broad, according to their fiebe, this bear reth them round : it delighteth in a black and a rich mould. it is a great spopler of land, and therefore not good for new broken bp around : æ

ground: it may be fowen at any time in Darch, in rainie weather. and in very rich ground : the fed muft be fteved in water a day before it be fowen, to the end it may furing the foner: it flowreth in June and July, and then falleth to fiede : it flowseth a herv long while, and is gathered the fourth day, being rive in a bery hozt time : when it is in flowce, of all other pulle it receiveth harme by raine: when it is ripe it muft be gathered out of hand. for it feattereth very fone, and lieth hid when it is fallen. In the. Chich there neuer breedeth any worme contrary to all Bulle elfe: and becaufe it drineth alway Catervillers, it is counted god to be Cicercula, fet in gardens, Cicercula in Latine, in Griehe Aoi Jueos, in Itas lian Cicerle, in Spanif Cizerche, it Differeth from the Chich, only in that it is somewhat blacker, which Plinic accounteth to have. bucken corners, as yeafe bath: and in many places about bs, they bie them in fixed of Peale, efficining themfarre aboue pealon : for they both vield more flowre then peafe, & is lighter of digeffis on, and not fo fubica to wormes. Columella counts it rather in the Tares and number offodder for Cattell, then of pulfe for man: in which nums. fodder for ber are thele that follow. And firft, Vicia in Latine, in Grieke. Cattell. Binenov, in Dutch Wycken, in french Vellac, fo called, as Vario. thinks of winding, because it hath tendeels or claspes, as the Cline hath, inhereby it slimbeth boon fuch falkes as grow nert it : it grolveth halfe a pard high, isaued like Tintare, lauing that they be fomething narrower, the flower like the flower of Beafe, has ung little blacke febes in cods, not altogether round, but broad like the Lintell : it require th a dipe ground, though it will also grow well enough in thadowy places, or in any ground, with final. labour, being not troublefome to the hufbandman : it requireth. but once plowing, and loketh for neither harvolving nor bunging. but enricheth the land of it feife. specially if the around be ploived Inhen the crop is of, to that the faltes may be turned in: for others wife the rotes and falkes remaining, do fucke out the godneffe of the ground: pet Caro would have it fowen in graffie ground, not watrilb, & innew broken-by ground, after the dealy be gone,. and the moisture dried by with the Summe & the winde, Dou muft beware that you folve no more , then you may well couer the. fame Dan: for the leaft deale in the world both fpople it. peither . mult pou fow them before the Dome be twentic-foure dates olde,. others

34

otherwile the Smaile will deuoure it : his time of folwing is, as Plinie writeth, at the fetting of the farre called the Berward that if may forue to fied in December: the fecond fowing is in gamas rie : the laft in Darch. In Germanie thep ble to fow them in abarch oz Avzill, chiefely foz fodder foz their Cattell. En isto Tares, as Plunie faith Beanes in not broken bp around without laffe.is a great piece of bufbander: they flower in Ame, at which sime they are very god to fcowe Doefes : it is god to lay them by in the cod, s to kepe them to ferue cattell withall. Tares and Dates make a god melline folved together. Lupinus in Lafine, in Lupines." Bicke Reude nuceos, in Italian & French, almoft as in latine, in Suanifh Altramuz, in Dutch Roomlche Boonen, is a Bulle has ming one onely falke, the leafe tagged in five divisions like a farre, the flow re fubite, the cods tagged, & indented about, having within them five or fire fades hard, broad, & red, the leaves theraf Do fall. This Dulle requireth leaft trouble, gis of fmall price, and yet most helpeth the ground of any thing that is folune : for there can be no better manuring for barraine Ainepards & Come fields then this, which either boon barraine ground profvereth.oz, kept in the Garner, endureth a wonderfull while: being fedden & laid in mater, it fedeth Dren in winter bery well : # in time of dearth (as Columella faith) ferneth men to affwage their bunger:it pros forreth in fandy & gravelly grounds, in the world land that may be : neither loueth it to have any labour beffolued byon it, no2 waigheth the goones of the ground. So fruitfull it is, as if it be caft among Bulles & Bziers.vet will it rote and vzofver : if ree fuleth both harrowing and raking, & is not annoved with wiedes, but killeth the wedes about it. If dung be wanting to mend the ground withall, this forues the turne about all other; for being fowed, and turned in with the plow, it feructh the turne in ficad of dunging : it is faired timelicit of all other. and reaved laft : it is fowed before all other Buile.a little after Barueff: couer it how flenderly you will, it careth not (an creellent god fiede for an cuill husband) pet defireth it the warmth of Autumne, that it may be well roted before winter come. for other wife the cold is hurtfull unto it. It flowzeth theile, firft in Day, then againe in June, and laft in July : after enery flowing it beareth bis cotde. 15efoge it foluzeth, they bie to put in cattell: for where as they will face **b**pon

byon all other graffe or wordes, onely this for the bitternes there of while it is greene, they leave butouched. 15eing dried, it ferneth for fuffenance both of man and beaff, to cattell it is given medice with chaffe, and for bread for mans ble, it is mingled with inbeat flowie . oz barly flowze : it is bery god to kape it in a fmeky loaft, for if it lye any thing morth, it is caten of little wormes. and thereby fuovied. The leafe kepeth a certaine courfe and fure neth with the Sunne, whereby it theweth ever to the hulband, Fenugreek man, even in cloudy weather, what time of the day it is. Fenum grecum in Latine, in French Fenegres, and Fenigrent.in Italian Fægigræco, in Spanily Alholuas, in Dutch fometime by the Latine name, and commonly Rohorne, and Lockshorne: commeth by with a small stalke, the leafe like a theilcaued graffe, it is folved well in a flender barren around, you muft take hed you plow it thicke, and not very deepe, for if the fied be couce red aboue foure fingers thicke, it will bery hardly grow. Theres fore the ground muft be tild with small Plowes and the fied wace fently concred with Kakes. There are two losts of it, the one called of the common people Siliqua or Todde, which they fow foz Fodder in September the other in Fannary.oz the beginning of February: when they fow it for fococ. it flowzeth in June and July, when allo it beareth his Codde, but the fiede is not rive till August: it is decled to be eaten after the order of Lupins, with bineger, luater, and fait, fome put to a little ople : it is bled both for fodder, and divers other bles. Furthermore, of Pulle called of Gellius, Legamenta, we have thele generali rules, that they all beare cods, & have finale rotes energone, ercept the Beane, the Thich growing beyoff. The Malke of the beane & the Lupine is. alfo fingle, the others are all full of branches and flender flips, and all holiow. All Bulle for the molt part, are to be fowed in the foring, and require bery rich ground, creeve the Luvine, that cares not where belies, they are all fowen in the energale of the Mone, succept Deale: if they be watered before their folding, they profper the better: they are fyeddip to be gathered when they be rive, for they fuddenly foster, they will endure longeft, being gathered in the change of the Done. It is much to be regarded whether you will keepe of fell them, for the feeds in the encrease of the Mons doe ware areater: there are that preferue them in carthen beffels, Trawing - - -

35

Frawing albes buder them, and sprinckling them with Uneger: fome ble alles alone, others ble to fozinckle them with Bernee mine bineger.as I hauc faid of the lentill. Dozeouer, the Oreches have willed to mingle with the dung a little faltveter when you fow them, whereby they thall the better fieth and be the tenderer. and if they be not prefently tender, they will to caft into the pot a little Muftard fed, which will make them fraightway well. Theophralius addeth biners things belide, which were to long to fell.

RICO. Is it needfull for every hulbandman to fow all thefe Braine and Dulle in his ground ?

CONO. 10 : but as 3 lapo befoze, in speaking of around and fed, you muft chiefely fow fuch as belt agree with the nature of your ground : howbeit, there are fome of them that refuse no around. There are certaine of them, as Varro layth, that are not folico for prefent necellitic, but for other afterturnes. And others againe that are of necellitie to be fowen, as Lone for man, and Fodder foz Cattell : of which mult fpeciall care be had, that there be no want of them, without which wee can not line : as Rie. Dates, and Buck. Lupines, and certaine Bulle elle, for fodder, refule no ground, though it be never fo barren. Befides, when as Fodder the hulbandman must not onely have a care of proutding fuch for Catas ferne for the fulkenance of man, but alfo for fuch as ferue for tell. the feding of poze Cattell, without which the ground cannot be hulbanded : therefore mult be foine Bulle for the ble of man and beatt.and Fodder in moze abundance for the fullenance of beatts. Among & all forts of Fodder, that is counted for the chiefe and the belt, which the people of olde time, & the Italians at this day call Medica, fome call it Trefvile, the Frenchmen call it Grandtreffe, Medica? the Spaniards Alfalfa, others call it Burgundie-graffe, becaufe it was brought in by the Burgundians, it is now allo come into Bermanie, and there called Welcholken. Plinie writeth, that it was brought by the Romanes, out of Media into Italy, differing almost nothing from Tryfolly, oz thzeleaued graffe : but that it is greater, higher, and ranker, foz in Kalke, leafe, and flowze it is all one: it groweth altogether bulhing in leaves. In the toppe of the Calke it putteth forth Chort coddes, writhen like hornes inden. ted about, and having as it were, little prickles, wherein is the lied

C 3

fiede fraved like a Mone, and growing to the Cod in blowes as the lentill, which being chalved, tafteth like Deale: euerp cod hath his fiele, it requirets a fat ground without fonce, full of inver and rich in many places it commeth not by in others it foringeth berp thicke. Verro giueth charge, that it benot fowed in to biv a ground of tickle, but in goo and well lealoned. Plinic would have the ground be dave and very rich. Columella blodeth, that the field, where this Medica thall be fowed, thould be broken bu about Ocober, and fo to lie mellowing all the winter, and then to firreit in February , & the fones cafe out, to harrow it well, and after in March to order it garden-wile, calling it into beds; enery bed ten fote broad, and fiftie in length, fo that they may be eafly watred, and of every fide well weded : then laving on god old doung, let it lie till Avail, and at the end of Availl folwe it in fuch viovoztian, as every handfull of fied may occupic fuc fotein bredth, and ten in length, and couer the fied out of band, raking them with woden rakes, for the Summe will fone burne them. After it is fowen, that it come bp an inch in height, vou muft bee ware you touch not the ground with any pron inftrument, but erther with your fingers, or with Rakes of Wood: wede it well from all other novfome things, otherwife it will grow wilde and turns to paffure. Let the firft barueft be long deferred. to the endhe may fomelohat thed his fodes: at other times you may molo it as some as you will, and give it to your Cattell. Such as are ftilfull in hulbandep, doe fay, that if you mingle Dates with the fied of Medica, and foin them, they will caufe them to flock bery well: it is folwed in Aprill, or later, in May, to fcape the fcoffs, and the fid is call in like fort as wheat is ... When it beginneth to branch, all other waves muff be waved away, and being thus or. dered pou man moweit fire times a være. It folweth fire times. or at the leak fue times lo it be not cut. When you have moles it, water it well, as it fpringeth, incede it againe. And thus as . Flapd, you may molu it fire times a vare, and it thall thus contist nue ten peres together. it enricheth the graund all pose and feble . Cattell are foone brought by with it, it likewife healeth Cattell that are difealed, but when it first fpringeth, till cattel be acquaine feo with it, you must give them but little at once, least the stranges Helle of the foode burt them, for it maketh them to fwell. and bress

Deth .

36

Deth great abundance of blood. Columella writeth, that one acre of it will weil finde this Bogles a piere. In fome Countries this hearbe both arow in great plentie in cuery Deodow, epther of the nature of the greund, or through the disposition of the Beauens. and fometime the relickes of that which bath bene long ages foiven both vierely fpring of the fade that falleth, & ouerarowen with Graffe and wedes , doth change into Beddow. I fie no caufe but that it map grow of it felfe , but that verhars fuch Blants as are brought out of ftrange Countries require fowing and decling: it is belt to be mowed when it beginneth to flowe. for it muft not be fuffered to fied, whereby the fooder thall be the better: which being well lapd bp, will continue in goodnelle thie perces, to the great profit of the graffer, for as I have lapd before, there can be no better Fodder Deutled for Cattell, where with they will better fiede, and fooner rife. The nert in goodnes to this Medica is Cytifus, wonderfully as Plinie ingiteth, commens Cytifus, bed of Ariftomachus, and as Virgill farth, a good fodder foz Shepe, and being bale, a delightfull food to Sivine : it may bie mowed landry times in the piece, to the great commoditie of the hulbanoman : a little whereof both foone fat by cattell, neither is there any other gralle that veldeth epther moze abundance oz better Bilke, the molt foueraiene medicine for the fickenelle of Cattell that map be: befide the Bhilofophers promife, that 15 es will never faile that have this graffe growing nere them: there. fore it is necellary to have your ground fored with it, as the thing that belt forueth for Boultric and Cattell : the leaves and fiedes are to be given to leane and drouping Bullen : fome call it Telinen, fome Trefoile, fome great Delilot, the Romanes call it Trifolumaius, great tralle, it is a plant all hairy and whitilh, as Rhamnus is, hauing branches halfe a parb long a more, inhercupon groweth leanes like buto Fenigrieke oz Clauer, but fomcthing leffe, having a riling creft in the midft of them. This plant was firth found in the Fland Cythno, and from thence fuscad through out the Cyclads , and to to Greece , whereby the flore of Thele came to be great: neither is there any countrep at this day, where they may not have great plenty (as Columella faith) of this thaub. In Italy it groweth about the encloffers of binevaros, it fyinketh meither for heat, cold, fre & nor fnow: it require th good ground, if the Iveather.

E 4.

weather be very bay, it muft be watred, and when it firft fygings well harrowed: after thie veres, you may cut it downe, and give it pour Cattell, Varro would have it fowen in well ozozed ground. as the face of Colemosts found be and after remoused and feta fot and a halfe alonder, or elfe to be fet of the flirs. The time of fowing of Cytilus is either in Automne, of in the figling, in ground well violved and lavd out in beds : if you want the fed. you map take the flipe. to that you fet them foure fort alunder, and a banche saft about them with earth well dounged: you may also let them befoze September, when they will very well grow and abide the colde in winter , it lafteth but thic piere. Columella hath ting. kindes of Cytifus one wilde, the other of the garten. The wilde both with his clafvers face berp well : it windeth about, and hils his neighbours as the Juie doth: it is found in Comefields, fper cially amongst Barley, the flowze thereof is like the flowze of Deale, the leafe, if it be bruiled, imelicth like rocket, and being champed in the mouth, it talteth like Chiche, or Beale. There is an other kinde of Fodder among the plants, buknewen to the olde waiters, berp and to fed both Cattell and Boultrie. 7 knole not whether it be knowen in other Countries befice Germanie. the common people call it Spurie, og Sperie : it hath a falke a fote in beight or more, bulkes forth in many branches, it hath a white flow se without any leafe: the flow se endeth in little knops. as Flare bath containing in them a bery little fedlike Hapeled. They are much deceived that take it for Cycifus, when that (as Dioscorides faith) hath leaves like Fenuarake, and this is altos gether without leaves : neither is the fied any thing like, though the bie be almoft one. The beft milke and butter in Germanic. commeth of this feding : wherefoze it is cfiemed almost as and as Barley.oz other graine: the fraw is better then any Dev: the chaffe fiedethas well as any graines: the feb fedeth Bigcons and Doultrie in winter palling well : it is fower in fandie and light arounds all the Sommer long, and fome folge it in Syzing time with Dates, for the feede fake: in Aurumne and Barurft time it is. fowed to fiede Cattell : it is profitable for Bulbandmen that dwell in fandy and gravelly Countries, wherefore they thould neuer bee without good forc of it, for Bennes, Bas, Goates, Shiepe, Oren, and all kinde of Cattell deiight bery much in

Sperie.

In it : now remaineth the folwing of Flare and Pempe.

Rigo. Hloke foz it.

Con o. Thefe, although they be not to be received in the num, ber of Come nos Bulle, Fodder nos Bearbs, pet is there great account to be made of them with the hulbandmans things, withe out mbich no houle can be furniched, noz man well apparrelled : which being beaten to a foftneffe, ferueth for webs of linnen, and twilling of Cozds : and moze, of this to little a fiede both fpzing that, which (as Plinic faith) carrieth the whole would hither and thether, that beingeth Egypt to Italy, & carrieth bs from Cales to Oftia in 7. Daies. Linum in Latine: in Bricke, ywov in Italian and Spanith, Lino: in French Dulin: in Dutch almoft like, fauing that they call the fied Lin. And the plant Flaxe, is a bery common Flaxe. hearbe, where with women are fet a worke : it hath a flender Halte, not much bulike to Spery, but that it groweth bigher a little, and bigger, with narrow leaves, and long blew flowces in the top, which falling away, leaueth behind them litle round knops as big as a yeafs, wherin are enclosed vellow fieds : it delighteth in rich ground, & fomewhat moil: fome fow it in barraine ground, after once plowing, it is fowed in the fpling, and gathered in fum= mer. In Gelderland and Gulicke. where there is great fore of it: they fow it about the beginning of May: there are againe that ob. ferue their featons for folwing of it, as the weather thall fall out, for it require thraine & moisture : the rivenesse of it is perceiued by the waring yellow, & fivelling of the knops that hold the fed, being then plucked by, and made in litle bundles, it is dayed in the Sunne, the rotes fanding volvard, that the fiede may fall out. Some ble againe to card off the knops with an your combe & days ing them in the funne to gather the fed. The bundles afterloards. are laid in water heated with the funne, with fome waight byout them to kave them downe, the rinde waring lose, the weth when they have bene fteped enough. Then the bundles bulwfed and daped in the fun, are beaten with betles, when as the outer rinde is pilled off, and combed & hacked byon an yzon combe : the moze wrong it fuffereth, the better both it prove : the towe is fenered from the flare, and appointed for his ble, fo are they fourrally foun byon the diffaste, made by in bottomes, and fent to the weas uers, whereof are wouen webs, to the areat commoditie of all menti

27

men. Last of all, the web is laid out in the hot Sunne, and fyzincheled with water, whereby it is brought in a passing whitenesse. It may be remembred, that not long fince the women of Germanie knew no cossier attyre. The best flare that is at this day, is brought from Pulcouia, Liuonia, and those Countries, far ercelling ours in height and godnesse, encept there be great encrease of it, and plentie in the Countrey where you dwell. Columella would not have you meddle with the folwing of it, for it is most hurtfull to the ground, as Virgill hath noted.

Flaxe, where it growes doth burne the Field.

The like doth Oates and Poppey yeeld.

And therefore (but that women must have fome things to occure their hands withall)it were more profit to fow the ground with Come and to buy linnen abroad, especially if you waigh the hurt of your around, & the charges of the making, Hempe, in latine is Cannabis, in Ozeke nevva Gis in Meeos, in Italian, Canabe, in Spaa nith Cannamo, in French Chamura, and in Dutch Haucph, is a plant of the Radiff kinde, having a very frong fauour : it groins eth with a fingle falk, a many times to fuch a beight, that it mate cheth with indifferent tres : it is of great necellitie for the ble of man, and ferueth both for making of Canuas, & framing of roves: the stalk hath many knots, out of which proceedeth branches with narrow leaves indented a tharve. Diolcorides deferibeth both the wilde Hempe, the garden Hempe to have leaves like the Albe, hollow falks, a flinking favour, & round fed. There are flookinds of it, the Male, that is without flowze, & beareth a fiede of fundzy colours : and the Female, that, to recompence her barrennelle, doth vield a white floluze. It is folwed in Bardens, Dzchards, oz other god ground, (as Plinic would have it) after a Southweft winde, with voit is folme in the end of Aprill, for it cannot alway with cold : fome fow it at the rifing of the ftar, called the Berward, which is at the end of February, or the beginning of March : it loueth rich ground. well dunged & watred. and depe plowed: it is naughtie folving of it in ravnie weather, the thicker you fow its the tenderer it will be, and therfore many times it is fowne thalfe, though fome there be that appoint to every fot finare fire fields. The Female, of firble Dempe is firft pulled bp, afterivard the Male,02 the carle, when his fiede is rive, is plucked by, and made

Hempe.

made op in bundels, layd in the Sunne for three or foure dayes, and after is call into the water, with weight laive byon him for sight or tenne dayes, till he be fufficiently watered, and as Flare, till the rinde ware lofe : then taken out, it is dried with the Sun and after broken in the brake, and then combed and hacked for Parne and Ropes. Of Pemp, are made Cables, Cords, Pets, and Sailes for Shippes, garments for Labourers, Shirts, and Shirts : the Gales or stalkes ferue for heating of Duens, or kindling of fires.

R 1 G 0. In the Countrey of Gulicke, and some parts of Fraunce, I remember an hearbe planted of the common people with great diligence, that serveth as they faid for Diars:

CON O. Doulay true, that hearbe, Celar in his Commentas ries of the warres of Fraunce, calleth Glaftum, in Brieke ioaris Woade. ingeos, in Italian Gnado, in Spanith Paltel, in French Gudum, and Guelde, in Dutch Weyt : the Diars Doe ble it, and with them it is greatly efferned, & great gaine arifeth thereof buto the people of Gelderland, Julies and Turin, & divers Countries elfe: the leaves as Plinic writeth, are like buto Dock teaves. Diolcorides witteth of two kindes, the wilde, and the Barden Woade, faying, that the Barben Wloade which Diars ble, haue leanes like Plane tine, but fomething thicker, and the wilde leaves like Lentill, with pellow flowers : with this hearbe Cefar, faith the people of Engs land, were wont to paint their faces and bodies, to fieme more terrible to their enemics : it requirety like folying and foile as Wheate both : but it is a great foker of the ground, and much burteth it : it would have a bery rich and a fat ground , and well bigged : for the ground mere better to be turned by with fpades then with Plowes for the foling of this plant, & it must be very wel weded. It is folwed in Gelderland in Apail, and after the common peoples rule, in Gafter wak: at the firft fallowing they marle the ground, after folwe it : you muft be very hebefull in the wies bing of it. Talben it is growen a handfull hye and more, they fuffer it not to Bowze, but with an inftrument for the purpofe, they sut it close by the rote, walk it, and carry it to the Still, and luffes ring it to grow againe, they cut it the of foure times, and to leave it to fiese. The greene hearbe they grinde in Milles like Apple Mis, pretting it til they get out al the fuice therof, then roule they ft bn-

39

for with their hands in round balles, and fo lay it boon borbed Smies to be Daped.

R I G O. Don haue greatly delighted me.in pelcibing onto me. the order of folving offads, without which, not onely the yearle of the Countrep, but allo the Courtier and Citisen are not able to live : my defire is now to underftand the order of harueft , the Country mans long loked-for-time, & the remard of all his tople. CONO. I will proceede in the accomplithing of pour requeff. When the come is rive, before it be fcorched with the great heat of the funne (which is molt extreame at the rifing of the leffer dog) it is to be cut downe out of hand : for delay herein is dangerous. First, because that birds, and other bermine will deuque it: and againe, both the Graine and the Care the toppe and the frain being brittle and over day, will fone fall to the ground: if forme or tempet chance to arile the greatelt part therof wil to the ground, and therfoze it mult not be linared, but when it both loke vellom in every place, and before that the Graine be thorow hard, when they come to loke reddiff, you muft then have it in, that it may rather mare in the barne, then in the field. Erperience teacheth, that if it be cut downe in due time, the fade will grow in fulnes as it lyeth in the barne : for the Done increaling, the Come grolves greater : at the change you mult gather fuch febe as you would thould be leaft faultie. Varro faith, that the beft time foz Barueft, is betwirt the Sunne flay, and the Dogge daves : for the Come they lay, both lie in the blade fifteene daies, flotus reth fiftene dapes, and riveth in fiftene daies. Amonaft Graine Rape Har. and Bulle, the firt that is to be gathered, is Rape lade. And bes cause the fiede, when the cod beginneth to ware vellow, declareth ripenelle, it mult be gathered out of hand : and lith the fiede will safily fratter, it must be lavd eyther in plaine fmoth places in the field, og bpon Canualfe : and if it be prefently to be carried the Wavne oz Cart muft be lined with thetes, left with jogging and trotting of the carriage, the fiede fall thosein. Dou muft take goo have as well har ein, as in all other Bulle, that you recuent the rayne, for the rayne falling, the cods doe open. As fone as your Rape liebe is off, if the ground be plowed, vou may fow Bucke, of 152anke, as they call it : fo that of one voice of ground in one pore, you map make two Baruelts. fert onto Kave haruelt in

thele

Harneft.

ticft.

thefe Countries, followeth the harneft of Winter Barley, which Harneft is to bedifpatched befaze the feede (the Gares being ouer Dated) do for Winfall, for they have not hulaes to containe them as Wheate bath, ter Barley. and the cares being brittell, will fone fall : pet fome thinke it beft to let the Barley lie a while in the field, whereby they thinke the Graine will ware the greater. Then followeth the Dempe hars Hemp harueft. But firft (as I faid befoge) the Fimble og the Female, is uch. vulled, and is dried a while in the Sunne, then (bound by in buns bels) it is throwne into the mater , and kept bowne with fome weight , that it fwimme not aboue. After intewife the Bale, the firde declaring his ripeneffe is pulled by, and the fiede being threathed out, it is caft into the water, till the Calke be foft : als fer, being bried in the Sume, it is made by in bundels to be knockt and chaled in Winter evenings. Kpe is to be malwed in Rie and June of July, and after that, Wilheate. po better rule, then before V Vheat the Graine he hard and the hard the barreft. the Graine be hard, and when it hath changed colour. An old 3020nerbe (as Plinie faith) it is better to hauein harueft two daves to fone, then their dayes to late. In Rie there is not fuch feare in feattering as in Wilheate, which as fonc as it is ripe, wilf feo with enery winde. Wherefore and hede muft be taken, that you linger not with Wheate after it is rive : although Plinic af. firmeth, that Wheat will have greater yald inhen it fands long: but furely deferring of it is dangerous, as well for the denouring of birds and vermine, as for mattering and failing of the fiede through forme and weather : as the profe was frene in the great windes that were in the piere of our redemption, 1 567. Then The harfolloweth the harnett of Peale, Beancs, Tares, and Lentils, ac, ueft of all sozding as they are timely folved, wherein you must take hede, as other corn and pulfe. I warned you before in Kape fied, that they lie not abroad in the raine : fog if they doe, they will open and lofe their feed. Laft of all commeth the Baruelt of the other Summer fiebe , as of 13ars lep, Pannicle, Milet, and Dates. It is found by experience, that raine is god for Dates after they be dolune : for it caufeth them to flucil and to be fuller, and to that end they are left in the field many times two of their weaks after they be bolune.

RIGO. Withat order haue vou in your reaping ?

CONO. There are divers forts of reaping, according to the Divers manner of every Country. Some with Sythes, which differ also forts of an reaping.

39

as the worke requires. In this Countrey we ble the forts of come Sithes, for either we hauea Sithelikea Sickle, which hole Den in the right hand, they cut the frain close by the ground, and haue in the left hand a long hoke, where with they pull together that that they have sut, and lay it in heapes : and in this fort Wheat and Rie, and fuch Graine as hath the furdieft fraw, is reaved. In other places as in Iulis, where the ground being very rich, the Come groweth higher and rancher, there they hold their left hand full of Come, and with the right hand with tothed Sichles they cut it, leauing the fraw under their hands long, to helpe the ground withall. In other places they ble a greater Sithe with a long Swath, and fenced with a croked frame of flickes, where with with both their hands they cut downe the Corne, and lav it in Swathes as they doe Graffe when they molve it, and with that they mow the higher forts of Corne. Varro and Columella, and other, doe tell offunder other forts of reaping. Palladius teacheth, belide the labour of men, a thoster way to be done with an Dre, that thall in thost time cut downe all that groweth, which was wont to be bled in Fraunce. The deuile was, a low kinds of Carre with a couple of lohales, and the Frunt armed with tharpe fickles, which forced by the beaft through the Corne. Did sut downe all befoze it. This tricke might be bled in levell and champion Countries: but with bs it would make but ill-favoured worke. In reaving, you muff regard to goe with the winde : for if you worke against the winde, it will be hurtfull, as Xenophon faith, both to your eies and your hand. If the fraw be but fort, pou muft goe nerer the ground, if it be long, pou may put your Sichles to the middelt to difpatch it the foner, & to make it theely the better : and the Aubble boon the ground muft either according to Virgils rule be burnt, or rot byon the ground, for the bettering of the land. Some preferue that which is longeft, to thatch Barns, Stables, & Countrey Cottages withall. And where Bay is fcant, it ferueth for foddring of Cattell : for Barley firaw is a food that Bullocks love well, and beside, all kinde of Graw is god to litter withall. When the Come is downe, it is prefently to be bound in fheaues : although Barley, Dates, and other Come and Bulle is made by in Cops and Rickes, but not without hurt and hazard. The Comebeing cut, is not to be had into the Barne prefentip, but

but to be let day, according to the nature of energ Grapne and Pulle: for if it be carried in before it be through day, it corrup, tethand rotteth. Dates and Buckc, are longest left abroad, as alfo Lentiles, Pease and Pulle, because they are longest in daying. Wheat may somest be carryed, if it be not mingled with two many wiedes, that hinder the daying of it. When Paruest is in, the Plowing ground must out of hand be plowed, both to kill the weedes, and after Harto make it the meter for the next sowing. The Corne cut downe usst. and drie, is to be laterither in Barnes, Pouels, or Stacks : and after in Winter , to be troce out with Beasts, or threshed out with Flailes, and to be cleanled with Fannes.

R 1 G 0. In Italy they ble to tread out their Come with Cate fell : the like reporteth Xenophon of the Grakes.

C O N O. I have time it my felfe, where they rather take House then Dren: and that time they also winnow their Coune, thinking the Southwell winde to be belt for that purpole: but to flay for that, Columella thinketh but the part of a finall husband.

R 1 G 0. F fé you have very large Barnes, what order obs ferne you in the building of them ?

CONO. Pou mult fo fet your Barne, that the Come may TheBasne be well brought into it, and fie it be very close on enery five, leas uing open a space for two dores, a fore dore, and a backe dore, but fo, as neither of them open to the Welt, but rather Porthand Caff, and at both fides of the flore believ your Come in feuerall taffes and mows, fo that you may easily come to enery one at your pleasure. And though the Come be layd byon battes in the flores, yet let there be a space left in the middly, that may be open to the very top, that you may fetch what fort you lift to be three they hopfe by the Come to the very rafters of the houle. In Holland they have a close Barnes, but all Houels and Stacks, fo placed with hanging rosses byon poftes, that with pinnes and winches, they may heighten it, or let it downe as they lift.

R 1 G O. Thole kinde of Barnes they fay, are not fo subject to spife and Nats, not fo chargeable as the other.

CONO. Howsener the Barne be, you must place it as high as you may, lest the Come be spoyled with morture of damps

Damus : fome thinks it better for them to be thatched then toled: the largeneffe muft be accouding to the greatnes of your occupys ing. Some to the end Cats and Wasels may the better comeby. they to bault the flore with bricks, and laping rafters thereon, bo lap on their Come. The flore mult be fayze and fmoth made. to as the Come may be well threfhed or treden out. Columella would have the flore faire vaued with flint or flone. whereby the Come will the fonce be threflid, and the flore not hurt with bear ting and trampling of Oren, and when it is fan'd or winnowed. it will not be full of gravell and durt, as the earthen flores vield. But we content our felues with our earthen fores, well mate, and of god earth, mired with a little Chaffe, and the arounds of Dyle; for this preferneth the Cornefrom Mile and Emets. Dou mult make it bery even and levell, and after it is mingled with Chaffe, let it be well troden, and fo fuffered to day. Dou muft have allo from it Beattes, and Poultrie, which with trampling & feras ping will make it rugged and bneuen. When the floze is biv, the Come laid on it, is beaten out with Flayles, and cleanled with Fans, though in some place they rather like to tread it out with Dren, and to minnow it after the old fachion, with the minde.

R 1 G 0. Well Sir, when you have thus threfted your Come, what waies have you to kiepe it from wincls ?

Garners.

CONO, The Garners, oz Cozne Lofts, wherein your Come thus threfted and cleanled fall be lavd, muft fand high, that they may be blowne through with the Cafferne g portherne winds, to which no mopflure from the places adiopning muft be fuffered to come: for the quarters of the heaven that are coldeft and depeff. doe both preferue Corne the longeft. In Spaine and Apulia, being hot Countries, the winde is not onely let in on the fides by wins dolves, but alfo at the bottome by grates. Some againe preferues it in vaults buder the ground, where the dry earth both cherich fach fruites as the hath brought forth, bled as Varro faith, in Spaine and Carthage : and in our dayes wie ble to here both Wine and Szaine in fuch baults. In Countries that are wet and watrich, it is better to make them in Garrets, as high as may be, having god regard that it be well walled and flored. Dozeouer, where as Corne is fubica to Winsls and Termine. ercept it be berp lafely lapo bp, it will come be confumed : theres :8028

fore you muft make with Clay, mingled in ftead of ftraw, with Assing have, then ouercaft it within and without with white Potters breeding Clap : laft of all. ftope the roles and leaves of wilde Cucums of Wyuels. bers in water two dayes, and with that Water, and Lime, and Sand, make Planter, and wath therewithall the walles within : albeit. Phoie counts Lime as hurtfull a thing as may be for Corne. Some mingle with Lime the Urine of Cattell, as a thing that will beftrop Minels of the leauce of Bouleleke.oz Mormes woo, or Boopes : but fpectally if you have it, there is nothing fo and to beffroy all fuch Termine, as the dreages and bottome of Dole : fome bis in the fead thereof, the pickle of Berrings. Hauing in this fort ordred their fielings , and their flores being Drie, they suppose that no burtfull worme shall annoy whatfor euer Come they lay in them. Some lay buder their Come. flies wort: others thinke it an allured remedy, if they be often fanned and winnowed, and thereby coled : but Collomella thinkes it butrue, and that by this meanes the Aermine Chall not onely be not diven out, but they shall be dispearled throughout all the Come, which if they otherwife be left alone, will meddle with no more then the outward parts, for a handbredth depth within, there neuer bredes any Myuels, and therefore he thinks it bets ter to let that alone that is already corrupted, and will goe no further, then with farther medling to marreall: fozit is an ealte matter, whenfoeuer vie niede to occupy it, to take away that is tainted, and to ble the reft. 15ut for all this, experience teacheth bs, that there is not fo god a remedy to defroy the Wyuell, as is the often fanning and winnowing in Summer. After the firft two vieres, they hold opinion, they will not meddle with Come: but I weary you with carrying you to much about, and if it pleafe vou, we will returne home.

RIGO. If it be for your eafe to to be : otherwife there can be no greater pleasure to me, then walking abroad to heare you talke ofhusbandey. Are thelethat I fie pour Baftures, where pour fat Of Pafture Dren, and your Bares, and your Colts doe leaving.

CONO. They are fo I lay all my paftures feuerall, for every kinde of Cattell to be by himselfe : in the hithermost that you fir, are my Cattell that I fat : in the nert aremp Horles, my Bares, and my Colts : in the next are my pound breede, Decelings, and

and Middow.

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Livopærelings. The Peddolwes that you fie in yender Malley, lye all to be Powed. Here nert to my houle, are my Sucklings, that are brought to their Dams to lucke thatle a day, and therefore ought to be nære : howbeit, luch as fædefarre eff, mult diligently and daily be loked to, for feare of difeafes.

R 1 G 0. Since I have troubled you thus farre, I cannot leave till I buderfland all your orders.

CONO. Potrouble at all to me; but rather as I faid before, the recording hereof, is my great log : for in talking of these mats ters you bring me a bed.

R 160. I pray you then take the paines to describe me the orbering of Pattures and Pedowes, when as there keineth to be a great affinitie betwirt them and Corne ground, and because they are sometimes also to be plowed, me thinketh this part remaineth to be spoken of.

CONO. With all my heart, 3 will latiffie your defire in ag; much as Fam able : and indico. fince Fhaucall this while fpoken of Come around, it is not out of order to tel you my minde of Das fure : galthough Cato in fome places both give the preeminence to the Uinepard : pet other old writers doe molt of all meferre Baltures, as the ground that requireth leaft to doe about it: and therefore they were called, as Varro faith, Prata, becaufe they. fvere Parata, allvap in readines, Incord neither great charge not labour.noz are in danger of forme or tempeffs, as other hinde of ground is, ercept fuch parcels as lie nore tiuers & Flands, which are fometimes successived: and that difcommoditie is fufficiently recompenced with the fatneffe that the water leaves behinde it. which enricheth the ground, and makes it the better perceptopeilo his gaine ryther in Palture oz Deddoin: The Paffures with bs boe commonly ferue both for Patture or Beblow when. Ine lift. specially in such viaces where the around is rich and drie. which they had rather to employ to Daffure, because with bungs ing of Cattell, it wareth alwaies the better, whereas with cons. finuall bearing of Day, it hath growne to be molfie and naught: but where the ground is alwaics wet and watrily, there it is bet. ter to let it lye for Dedolo. Columella maketh two kindes of Walture ground; whereof one is alwaies day, the other ouers flowed, The god and rich ground bath no nicde of overflowing.

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of Earable-ground and Tillage.

the Day being much better that groweth of the felfe awdnette of the around , then that which is forced by waters : which fometime not with Eanding is needfull, if the barrenne de of the ground requireth it : for in bad and naughty ground, god Dedoow map be made, if it lie to be ouer-flowne : but then must the ground neither lie hollow, not in hils, leaft the one of them keve the was ters byon it to long, and the other prefently let it forth againe. Therefore lyeth the ground belt, that lieth levelleft, which fuffes reth not the water to remains bery long, noz auoideth it to fone. If in fuch ground it chaunce to fland ouer-long, it may be ausided 'Inith water freame at your pleasure : for both ouerplus, and the want of water are alike burtfull buto Deddowes. It is bery handfome, where dy and barrains ground lieth fo by the Miner. as the water may belet in by trenches when you lift : in fine, the occupping of Palture grounds require more care then travaile. firft, that we luffer not Bulbes, Thoznes, noz great Miedes, to over-grow them, but to deftroy fome of them, as Brambles, Briers, Buiruffes, and Sedges in the end of Summer, and the other that be Summer wedes, as Soluthiftell, and all other Thiftels, in the Spring. Dou muft take herde of Swine, that spoile and turne by the ground ill fauouredly, and all other Tats tell : ercept it be in hard and day weather, for other wife they gult and marre the ground with the depe fincking of their fiete treads ing in the Graffe, and breaking of the Kotes. The bad and bars raine grounds are to be helped with bung in Winter , Specially in February, the Done encreating, and the ftones, flickes, and -fuch baggage as lve frattered abroad, are to be throwne out for ner, or later as the ground is. There are some Mcdoowes that with long lying, are ouer, grolone with Boffe, which the old hulbands were wont to remedy with caffing of certaine fiedes as broad, with laying on of dung, specially Pigeons dung : but nos thing is fo and for this purpole, as often to call Alles bpon it. for that beftropeth Pole out of hand. Potwithstanding thefe are but troublefome remedies. The beft and certaineft is to Plowe it : for the ground after his long reft, will beare godly Come. But after you have plowed it, it will fearfe recover his old . effate again foz Paffure & Deddow in theie oz foure veres. Withen peumeanc to let your ground lie againe for Deddolp or Patture,

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pour

Thefirst Booke, entreating

pour beff is to folve it with Dates , and to Barrow the ground cuen and levell, and to burle out all the fones and fuch things as may burt the Sythe : for Dates is a great bieder of graffe. Some doe caft Havicote, gathered from the Hardolt oz the Rackes, ouer the ground befoze they harrolo it. Others againe. when their Deddowes have lien long, fowe Beanes boon them. or Hape fobe, or Millet, and the vere after Wheate : and the third pare they let them lie againe for Deddolu or Paffure. Dou mult beware, that while the ground is lole and foit, you let not in the water, for the force of the water will walh away the earth from the rotes of the Graffe, and will not fuffer them to grow together : neither muft vou (for the like Danger) fuffer Cattell to come byon it, erceut in the fecond pære Boates, og Shæpe.og fuch like, after you have molved it, and that it the fealon be bery daie. The third være vou may put on your greater fort of Cattell as gaine, and if the ground be hilly and barraine, you may dung the higheft part of it in February, as I faid before, caffing on it fome Bay fiede, for the higher part being mended, the raine or water. that comes to it, will carrie downe fome part of the richneffe to the bottome, as 3 faid befoze, when 3 fpake of the manuting of carable ground. But if you will lap in new ground for Deddow, and that you may have your choile, take fuch as is rich. delup, les nell, oz a little hanging, oz chofe fuch a valler, where the water can neither lye long, not runne away to falt : neither is the ranke Graffe alwayes a figne of god ground : for inhat godier Graffe. is there faith Plinie, then is in Germanic, and vet you thall therehave fand within alittie of the opper part. Reither is it alwapa watry ground where the Graffe growes high, for the bery gound faines in Sycherland pæiogreat and high graffe for Cattell. The Baffures that lies by the Lakes of Dumone in Auftry and Hungaric are but flender, not about the Rhine, fpecially at his fale ling into the Sea about Holland, as likewife in Freifeland and Flaunders. Calar Vopilcus, the Fields of Rolcius were the pains cipall of Italy, where the Graffe would to foone growe, as it would hite a faffe in a day. Dou may make goed Deddolve of any ground, fo it may be maired. Pour Detdowes are to be purged in September and October , and to be rid of all. bulles, brambles, and great foule Wloods, and all things cife

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of Earable-ground and Tillage.

43

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that annoy them, then after that it bath often bene firred, and with many times plowing made fine, the ftones call alvay, and the clods in every place booken, you mult dung it well with feely bung, the Mone encreafing. Let them be kept from gulling and trampling of Cattell. The mouldhils and dunging of horfe and bullocks, must with your spade be cast abroad. which if they rea maine, would either beharbarours of Ants & fuch like Hermine, or elfebreders of hurifull & unprofitable webs, vour Meddolves muft be lapd in towards March, and kept from Cattell, and made bery cleane : if they be not rich they muff be mended with dung. which must be laid on, the Mone encreasing, and the newer the dung be.the better it is and the more Graffe it makes : which muft be laid upon the top of the highest of the ground, that the godnes map runne to the bottome. The beit hearbe for Bafture oz Dedbow, is the Erefoile of Clauer: the next is fivet Graffe: the worff as Plinie faith, is Ruthes, Fearne, and Hozfetaile.

RIGO. How thall I know when the Graffe is rive, and ready fo be cut ?

CONO. The time of cutting of it, is when the Bent beginneth to fade and ware fiffe, and befoze it wither. Caro bids not to mow your Graffe with the lateft, but before the fied be ripe. It is beft cut downe befoze it wither, whereby you that have both moze, and better Wey of it. Some where they may overflow it, do water ét a day before they cut it, it cutteth better after a delvie evening.

RIGO. Doe you cut graffe in the like fort as you doc Come?

CONO. Almost in the like fort, some doe ble flort Bithes, molving it with one hand : but we here doe ble the common great Sith, mowing with both our hands, as I faid before, that Dates, and Barly, and fuch other like Come was mowed, which Sithes we ble to tharve with Whet Kones.oz in fruments of wood deciled with fand. The Graffe being cut, must be well tedded and turs ned in the Summer, and not cocked till it be day : and if it chance to be wet with raine, it must not be turned, till the opper part be dried. There is a measure to be bled in making of it, that it be not had in to drie, not to greene. The one fost, if the ingce be daied .by, ferneth onely fog litter : the other (to graine and mouth) if it be caried into the Loft, rotteth, and the bapour being ouer heated, falleth on fire and burneth. And if to be the raine chance to fall buon

The first Booke, entreating

boon the grade that is new cut dolone, if it be not firred. it takes not fo much harme : but if it be once turned, pou muf fiil be fire ring of it, otherwife it will rot. Therefore the popermole part beforeit be turned , muft be well dried with the Sunne and the winde : when it is dried, we lay it in windrowes, and then make It by in Cockes, and after that in Molues , which muft be tharpe and puked in the top, the better to defend it from the raine, which if it doe not fall, pet is it and fo to doe, that they may flucat us the faid Dowles, and digeft whatfocuer moifure is in it. And therefore god hulbands ove not lay it by in their loftes, till fuch time as it hath fineat in the Field. Graffe is commonly molved fluile a vere, in May or June, and againe after Barueft : the first mowing is counted the beft. As some as the Day is off after the first mowing, it would be overflowed (if you may convenientiv) to the end the after freath may be mowed in Autumne, which they call in Latine Cordum. In the Dukedome of Spoleto, it is faid they molve foure times a være, being die ground, and Diners other places theife a pare. Medica may be cut ure times a være, if it be ordered as it qualit to be. It is beft molved when it beginneth to flowce, for it must not groive to lade : being diled it is made by in bundels, and kept god their parcs, to the great comfort of pore Cattell : but becaule 3 haue tolde pou of Medica before, it is but baine to rehearle it againe.

R 1 G 0. Pon have spoken of a very large and great knows ledge of husbandey, which out of doubt require thin a man great frauaile and diligence.

Cono. It requires hindwide great diligence and trauaile, howbeit, it recompences the paines and the charges, not without great gaines, whereof Plinie bringeth for example Caius Crælinus, who when voor a little piece of ground he reaped more fiuit and graines a great deale, then his neighbours did voor their great ecupiers, grew into great hatred amongst them, as though hee had bewitched their field: whereof being accused by Spurius Albinus, and fearing to be condemned, when the Quess should passe boon him, he brings all his instruments of husbandary into the common place, and brought in therewithall his daughs fee, a folly great Koile, his iron twies perfective well made, great Spades, mightie Coulters, and lustie Cattell : Loe here (quoth

of Earable-ground and Tillage.

(quothhe) mine enchauntments, neither can I bring before you The dili-my great and painefull labours . Watchings, and fweat, where Caus Crabuon her was prefentiv quit by the boyers of them all. But 7 finus. hepe you to long about my husbanday, it is god time we leave and goe home.

RIGO. With a god will, If I may obtayne one thing at pour hands, which when you have made an end with, I will trauble vou na longer.

CONO. Withat is that :

RICO. If a man would buy a Farme of a Dannos, in what fort thall he beft doe it ? for I doubt not but you have and fkill in fuch matters.

CONO. Ilchomachus in Xenophon, telleth, that his father caught him that he thould never bup a pace of ground, that had bene fkilfully or curioully husbanded before, but rather fuch ground as by the flothfulneffe and youerty of the Daiffer, hath Iven untilled and negleace, and pet fieme to be very and around: as it is better to bup a leane Hozle, fo that he be not old, and that he have the tokens of a and Bolle, then a fatte Bolle, and one that is curioully kept. A well ordered pace of land is held dere. and veids no great encrease, and therefore is neyther to pleas fant, noz fo profitable, as that which by goo husbandry may be made better. Cato would have two thinges to be oblerued in buying of land : The godnelle of the ground , and the wholes fomenelle of the aire : of which two, if either be lacking, wholos suer doth buy it, he judgeth him madde, and mete to be fent to Bedlam : for none that is well in his wittes, will beftow cafe by. on barraine ground, not hazard himfelfe for a little rich ground, to be alwaies subject to pestilentiall diseases : for where a man muß deale with the Diuell, there is not onelp his commoditie, but his life doubtfull, and rather his death then his gaine certaine. After these two principal notes, as Columella faith, Caro added of like weight these this that follow to be regarded : the Wap, the Mater, and the Peighbour. The godnette of the way is a great matter, for it both makes the Dafter haue a belight to goe about it, and it is commodious for carriage, which bringeth great gains, and little charges. Df the commeditie of water who doube feth, without whole bic no man is able to live? Dfa mans neigh. bour.

FA

The first Booke, entreating

bonr, he would have a man have special regard. Heliodus faith, wipe xanos derey, an cuill neighbour is a great milchiefe. I have knowne divers, that for the troublesonnelle of their neighbour, have for laken god dwellings, and changed gold for copper, because they have had falle knaves to their neighbours, and quarrellers, that suffering their cattell to runne at large in every mans ground to spoile their Come and their Mines, would also cut downe wood, and take whatfocuer they find, alwaies brabling about the bounds of their ground, that a man could never be in quiet for them : or else have dwelt by some Caterpiller, Kuffian, or Swath-buckler, that would isane no kind of milchiefe budone. Among it all which commonly there is not foill a neighbour, as the new opfart, that takes boon him the name of a Centieman, who though you ble him never so well, will at one time or other give you to buderstard from whence he comes, and make you fing with Claudian,

> A persus most est bumili cum surgit in altum; A lewder wretch there liues not vnder skie.

Then Clowne that climes from bale estate to hie.

As the Proverbe in England is, set a knaue on horseback, and you thall se him thoulder a knight : sor an Ape will be an Ape, though you cleath him in purple. Surely D. Porcius would have a man thunne the neighbourhod of such, as the petitlence. I sor my part aur happy in this point, that I have no neighbour that I neede to seare.

R 1 G 0. Perhaps they dare not for your authoritie to doe, as other wife they would.

CONO. But fince death and other calualties rivs a man of them, the dwelling is not to beleft, if it have other god commodifies, ercept it be places in the boxters of funday Countries that be fubient to great ficknesses. Some commond the dwelling that hath faire waies about it, is nive fome Kiner or god Parket, whereby a man may carrie his Perchandize with leffe charges. The old fellowes would nener have a man place himfelfe niere the high way, for pilfering of such as passe by, and troublefommelle of gueffs, as 3 faid before in speaking of the placing of an house. It he letting of a Farme, these things are to be observed that I spake of before, in deferibing of a Bailing of Austandise and his labour : that you let it to such, whole trauaile and god behauiont.

The letting of a Farme.

of Earable-ground and Tillage.

behaufour you may be affored of, and that you regard more their and erdering of the land then the cent, which is leaft burtful, and most gainefull. For whereas the ground is well hulbanded.vou Mall commonly have gaine, a never loffe, ercept by bureafonables neffe of the meather, which the Ciuill Lawyer lapth, fould not be any damage of the Tenant , of the innation of the encine. Inhere the Equant cannot helps it. Befides , the Lozb muft not deale with his Tenant fo ftraightly in curry point, as by law he might, for his rent daves, bargaines of wood, quit cents, or luch. the rigour wherein is more troublefome, then beneficiall:neither ought mee to take every advantage, for lalu many times is right plaine wong : neither mult ye be to flacke on the other fice. for to much gentlenelle many times makes a man the worle. And therefore it is god if the Farmer be flacke in his paiments, to make him to know it : but in no wile to be a railer oz enhaunler of rents for that difcomforts, and many times budgeth the tenant. Bozeouer, you mult not lightly change the olde Farmer, both bee caule of his deferts, and that hee is better acquainted with the around then a new. L. Volulius mould alwayes fay, that hee was in beft cale for his Lands , that had alwayes his Tenants . borne and bredde up in them, whereby the long familiaritie thould make them more louingly to ble themfelues : for fure it is an cuill ble often to change Denants, and therefore I dae like well that evder, where the land is let for the lines of the Tenant, his wife and his childe, paying a percly rent, to that as long as he payes his rent, and kapes the reparations, it thali not be lawfull to deceive him : for hereby the Tenant thall be prouvled to order the ground with more biligence, to repaire the houle, and to loke to it in all points as to his owne, befowing many times as much as he bath byon it. This way of letting Land me fames is beft; lubere the ground is lubica to the Sea or the River, or other dans ger, that the Tenant bee charged with the maintenance of it. And here be fure that you let it rather to one of habilitie, then to an untipiftie man, that is not able to beare it, whereby pour may lofe both your Land and your rent. In fuch place as lies nere the Lozo, hee may eccupie it by his Bapliffe, oz to hawnes: but where it is far off it is better to let it out for a verely rent buon the forefaid conenants. For if you occupie it with your foruants ...

The first Booke, entreating

feruants, they will epther loke ill to your cattell, or your ground, or fuffer things to be folne, or feale themfelnes, or make you be at more charges then needeth, and be careleffe in enery thing. In letting of ground commonly it is conchanted, that the Tenant thail not let nor fell without leave of the Lord, and that he thall not breake any patture or meddow land, and what, and how much he thall fewe of every kinde of graine, how much be thall have for Patture, how much he thall let ite, and how much be thall mend. Here have you almost as much as J am able to fay in hutbanding of the ground.

CONO. I thanke you, you have greatly delighted me with the describing of your Patture ground and Carable.

The end of the first Booke.



The fecond Booke: Of Gardens, Orchards, and VVoods.

THRASYBVLVS, MARIVS, IVLIA.



Ccaule of the aliance betwirt Bearbes, Tries, and Coane, and becaule their hulbanday is almost one, it is reason that next the first boke, waitten of Carable ground and Tillage, thould follow the descriptions of Dachards, Gardens, and their fruits. Virgill in waiting of Bulbanday, left this part bulvaitten of: howbeit, divers others

both old a new watters have not without fome diligence waitten of this part, but vet by matches (as it mere) anot throughly : whole ovinions iopned with mine own experience. it femeth and to me in this boke to declare. And fince the ble of Dachards & Cardens The vie is great and ancient, a that Homer writeth, how Laertes the olde of Gar. man, was wont with his trauaile in his Dechards, to deine from dens of his minde the forrow hie toke for the abfence of his fonne. And great antiquitie. Xenophon reporteth, that king Cyrus, as great a prince as he was, would plant with his owne hands, a let trees in his orchards, in fuch older, as it fiemed an earthly paradife. Q. Curtius mis teth of Abdolominus that for his great vertue of a pore garoner, came to be king of the Sidonians. And furely, not unworthily is this part of hulbandep effemce, figing it both not aloncip being great pleasure, but also is greatly profitable for the maintee nance of householde, and the sparing of charges ministring to the hulband daily fore, and fufficient fuffenance without colf for when (as Columella faith) in the sloe time the people lined moze temperately, and the pore at more libertie fed of fleth & milke, and such things as the ground & foldes pecided, but in the latter age when root and daintines began to come in, and the wealthice fort to efficine no face but coffip, and farre fetched, not content with meane diet, but coucting fuch things as were of greateft price.

wice, the pore people as not able to beare the charges were bas niched from the collier cates, and Driven to content themfelnes with the baleft lode. And hereof lyzang at the art the planting of Dechards and making of Gardens, where with the porefferra. ture that was, might feere his kitchin, and haue his biduals ale waves at hand, the Dichard and Barden feruing for his Shams bles, with a great deale more commendable and burtleffe diet. Herein were the olde hulbands bery carefull, and bled, alinaves to judge, that where they found the garden out of order, the mife of the house (for buto her belonged the charge therof was no god hulwife, for they thould be forced to have their viduals from the Shambles or the Market, not making to great account of Cols worts then, as they doe now, condemning them for the charges that were about them. As for fleft, it was rather lothed then be fed amongit them. Dnip D2chards and Bardens did chieft pleafe them, because the fruits that they vild, nicoco no fire for the dreffing of them, but fpared wod, being alwayes of themfelues ready dreffed, caffe of digeftion, and nothing burdenfome to the ftoe macke: and some of them serving also to pouder or preferve with all.as and marchandise at home.as Plinic fayth, not driving men to fike verver as farce as Indie. Df Lucrin, I the Doffer not regard as the Boet lapth. And therefore to make them of more worthinedle, and that for their common profite, they thould not be the lefferegarded, there were diuces noble men of the house of Or Lettu. Valerius, that toke their furnames of Lettufe, and were not afbas med to be named Lettilmen. The old people had in great ellis mation the Bardens of the daughters of Atlas, and of the kings Adonis and Alcinoi, of whom Homer fo much speaketh, as also the great baulted Garbens, cyther built by Semiramis, og by Cyrus the king of Affiria. Epicure is reported to be the first that cuer deuiled garden in Athens, befoze his time it was not fiene, that the pleasures of the Countrie were had in the Citie. Dow when Thrafybulus trauailing in the affapzes of his prince, chaunced to come to the house of Marius, & carried by hun into a Barden that he had, which was very beautifull, being led about among the fivet finelling flowces, and baber the pleafant Arbours, what a godly fight (quoth Thrafybulus) is heere - holn ercellently haue you garnified this paradife of pours with all kinds of pleafures? Dour

An enill Garden token of an ill hufwife.

fins.

Pour Parlers, and your banketting houles both within and with. out, as all bedecked with vidures of beautifull foluzes & Tres. that you may not oncly face your eves with the beholding of the true and lively Flower, but allo delight your felfe with the coun. terfait in the midt of winter, feing in the one, the painted flower to conteno in beautie with the bery flower:in the other, the wone derfull worke of Pature, and in both, the palling godnes of God. Bozeouer, your pleafant Arbours to walke in whole thaddowes kape off the heate of the funne, and if it fortune to raine, the clois fters are hard by. But specially this little River, with molt cliere water, encompating the garden, both wonderfully fet it foath, and herewithall the greene and godly quickfet hedges, no chargeable kinde of enclofures, differeth it both from Dan & Beatt. I fpeake nothing of the well ordered quarters, whereas the Bearbes and Tres are feuered euery fort in their due place, the Bot-hearbes by themfelues, the flowers in another place, the Tres & Impes in another quarter, all in inf fquare and proportion, with Alleis . and walkes among them. Among thele godly fights, I pay von remember according to your promife (for fo the time requireth). to theiv mee fome part of your great knowledge in garden mats ters, fith you have byon this condition heard me heretofoze grabs ling, or rather wearping you with the declaiming of my pore thil in the tilling of the field.

MARIVS. Bour memorie is herein a little to quicke, but what thall I does Promile must bekept, and fince you will needs force me, you thall heare me babble as well as I can, of my knows ledge in Gardening: but not with the like pleature that I heard you talking of your graphing and your ground.

THEA. Des trulp, with as great plealure & defire as map be. MARIVS. Come on then, let be here fit downe in this Are bour, and ive will now and then rife & walke, refting be as out as you will: in the meane time Iolia thall make ready our fupper. And first, even as you began with the chosing of a place (meet to fet your house open, fo mult I with the chosie of a Piot meet for a Garden. The ordering of Gardens is divers, for fome are made by the Pannor houses, fome in the Suburbs, fome in the Cutte, where focuer they be, if the place will fuffer, they mult be made as neare to the house as may be; but fo, as they be as far from the Barnes

Barnes as you can, for the Chaffe or duft blowing into them. and either fubien to the Dounge heave, wherebuit may be maderich. se elfe in some very good ground that hath some small Brooks running by it, oz if it haue none fuch, fome Well oz Conduit. whereby it may be watered. An ercellent plot for the purpofe is. that which declineth a little, and hath certains gutters of mater running through divers parts thereof: for gardens muf alwaics be to be ealily watered, if not with fome running freame, fome pumpe to be made, or kettle. Bill, or fuch like, as may ferge the furne of a natural freame. Columella would have you make your of fearch- fearch for water, when the Sunne is in the latter part of Virgo. which is in Sevtember . before his entrance into the Winter Æquinoctiall, for then may you best understand the Grenoth or awonede of the forings, when after the great burning heat of the Sommer. the ground hath a long while continued without raine. If you cannot thus have water , you mult make fome fanding vond at the upper part of the ground, that may receive & contains fuch water as fals from aboue, where with yee may water your Barden in the extreame heat of Sommer: but where neither the nature of the forle.no: converance by Conduit of Bumpe.oz rune ning Arcame is to be had, you have no other helpe but the raine water of winter, which if you allo have not, then mult you delue and lay your Barden thic of foure fote Dene: which being fo 020 Dered, will well be able to abide what socuer drought doe happen. This is allo to be regarded, that in gardens that are deflitute of inater, you fo order them into feuerall parts, that what part pour will occupie in winter, may lie towards the South, 3 that which Mall ferue you for Sommer, may lie towards the Porth. In a Barden, as in the chople of Come ground, you muft loke whe ther the goodnelle of the around be not hindered by the bulkilful. nelle of him that hath occupied it. Doumuft allomake chople of vour inaters of which the beft (as Plinic fauth) are the coldeft.and fuch as be fluit to drinke: the world that comes from Wonds, or is brought in by trenches, because they bring with them the fierds of graffe and wiedes : but the ground both most belight in raine water, which killeth wormes and baggage that breeds in it : but for fome hearbs, falt water is nedful, as the Raddilh, 15 etc. Rein, Saurell, to which at fait water they fap, is a fpecial helper, making thens

Thetime ing for water.

them both pleafant and fruitfull: to all others, fluct water is only to be pled, And becaule I have begun to entreat of watering, I The time muft give this note, that the times of matring is not in the heat of wateof the day but carcip in the mouning, & at night, leaft the water ring of be heated with the Sunne: onely Bafill you muft water at none. Gardens. the fied fomething will come the foner vo.if they be furinchled at the firft with hot water. Dou haue bere beard, that the firft ned. full thing foz a Barden, is water. The nert to that is enclofure, Enclofing that it be wel enclosed, both from buruly folks & theues, and like of Gar. mile from beats : left lying in waite for your hearbs and your dens. fruits, they may both bereaue you of your paines, and your pleas fore: for if epther they be bitten with bealts, of to often handled mith men, it hindzeth them both of their growth & feding : and therefore it is of necellitie to have the Barden well enclosed. Dow for enclolures, there are funder kindes, fome making earth in mould doc counterfeit Brickwals: Dthers make them of lime a ftones: fome others of ftones layd one byon another in heaves. cafting a Ditch for water round about them, which kinde Palladius forbids to follow, becaufe it will brain out the morflure from the Garben , creept it be in a marifh ground. Dther make their fence with the feedes and fets of Thome : fome make them of mudde walles, couered with fraw or heath. Varro maketh mens tion of foure kindes of enclosure : the first naturall, the fecond fuilde, the third fouldierip, the fourth, of carventers morke. The firft & naturall is the quickelet bedge, being let of poing thomes. which once well growen, regardeth neither firenoz other hurt. The fecond is the common hedge made of dead woo, well taked and thicke plafted, or raile. The third the fouldiours fortifping, is a piepe ditch with a campier : but the ditch muff be fo made, as it may reteine all the water that comes from aboue, or fals into it. wherein the vamure muft be fo frispe, that it may not eafily be climed. This hinde of fence is to be made, where the ground lies nere the twe way, or buts byon the River, of which fort I thall have occafion to fpeake more hereafter. The fourth fence made bp the Carpenter of by the Balon, is commonly knowen: whereof there is foure loats, either of Stones, of baiches, og Eurfe, and earth, & little frones framee in moulde. Columella following the ancientelf authors, preferreth the quicklet hedge before the drad, both :: . .

The making of a quick les hedge.

Another

hedge.

because it is leffe chargeable, and also endureth the longer continuing a long time : which hedge of yong thomes, be teacheth to make in this fort. The place that you betermine to enclose moff after the beginning of September, inhen the ground hath beene well foked with raine, be trenched about with two furroines, a pard billant one from the other, the depth & breadth of curry one of them nuft be two fot, which vou muft luffer to lye emptie all ininter, proutoing in the meane time the fields that you meane to fawe in them, which muft be the berrics of tharpe thomes briers. holly, and wille Galantine, which the Grickes call dog beier. The berries of these you mult gather as ripe as you may, and mingle then i with the flowe of geale of tares, which when it is forince kled with water, muft be put opon old ropes of thirs, or any other roves, the ropes being thus handled and dued, mult be land by in fome borded flore, After ward when winter is done within forty Dayes after about the comming of the Swallow, if there be any water remaining in the Furrowes, it mult belet out, a the mellowed earth, which was call out of the furrowes in the ende of Summer, muft now be caft in againe, till pou haue filled them by to the mide : then mult you handlomely bufolde the ropes, and lay them in length through both the furrowes, and fo couer them, taking and hird that you throw not too much earth byon them for hindering the foring which common's bleth to appeare with in thirtie daves after, and when they be growne to be of fome height, they mult be made to encline to the space betwirt the two furrowes: in which wace voumust have a little walled bedge, to teach the fprings of other furrowes to climbe by which will be a folly fay and a comfort to them. But I baue another and a more newerand readier way of making of them, which 3 first practiling in this better way Countrie diuers others have folloined. I allo bo make a certaine of making Ditch, t gathering in the wood, the young fyzings of thomes, cut ting off their tops, I fet them on the bancke of the Ditch, fo that they fand halfe a foot out of the ground, plucking by all the wats (fpecially the firft Sommer) that graw about them and fucke as way the juyce that comforts the let. The rootes being this rid. 3 couer all the earth about them with frain, whereby both the deate of the night is let into the rootes, and the pooze plant is des fended from the burning of the Sunne. The pære after. I make

a little flender raile of plants, whercunts 3 lay by the forings. weaving them in fuch fort as I will have them to grow . which I værely make higher, according to the height that I would baue the Bedge to fpring. Gight, or at the bttermelt mine fote. is a fufficient height , and whatfoeuer furing aboue , must te plathed of one fide of the other , to make the fence the fromar. Withen I have thus done. I mat it thicker and thicker every vere. Alling by the places where Florit thinne, with fuch bows as I fie arow out of order : and thus is it wouen to thinke with parce ly bindings, that not fo much as a finall bird is able to valie too. row it, not any man to loke through it. Wahen it is thicke o nourh and bigge enough, the superfluous springs must cuery være be cut. This hedge can neuer be deftroped., ercest it be plucked by by the rotes : neither fearcth it the hurt of fire, but will growe the better for it. And this is my way of enclosing a Barben, as the pleafantelt, molt profitable, and of leaft charges.

THRA. There is another way of making of a quick let Debge, Another which our Bedgers in the Countrey doe ble, which is fomething fort of the Aronger. For letting the young Sets, as you have laid before. fuhen they be growne to fome greatnelle, they cut the Thorne nere to the ground, and being halfe cut and broken a funder, they bowe it along the Bedge, and plath it. From these cuts spring by new plants, which fill as they growe to any highneffe they cut them, and plath them againe : to doing continually, till the Dedge be come to his full height. This way the Bedge is made fo frong. that neither Hogae noz other bealt, is able to breake through it : but the other is a great deale more plealant to the eye. But if 7. hauenot Sets enough to ferue, may I make an Impe Barden of their febe ?

MARIVS. Dea berp well. Dake pour Thome Barden oz Hoze plot in this fort. Take your Berries or frones, and mingle thom with earth lay them by for the first piere in some place mate for them, the next viere fowe them as thicke as you can, and vie fall within a little time have a whole Www of thomes.

THRA. Doubaue now woken of Water and enclosure, two principall points in a Barden : It now remainsth to foeake of the ground mete for a Barden, and the order of dreffingit.

MARIVS. Dfthe fundep forts of ground, and of the differing

63

Di

hedging.

of them, because you in your discribing of Torne ground before have sufficiently spoken, 3 do not think it needfull for me to repeat it. Againe, it is enough to me to adde onely this, that the ground ought not to be to rich, nor to leane, but fat and mellow, which bringeth forth a small kinde of Graffe like haires : such ground requires least labour, the stiffe and the rich ground asketh greater paines about it, but both recompence it againe with his fruitfulnesses with, and cold ground, is not to be medled with, as Columella writeth in appointing god ground for Gardens.

The ground that glues the ripe and mellowed mould, And doth in working crumble like the fands : That of his owne good nature yeeldeth manifold, Where Walwoort with his purple Berrie flands. For neither doth the ground that ftill is dry, Content my minde, nor yet the watrie foyle : Whereas the Frogge continually doth cry, While in the flinking Lakes he ftill doth moile. I like the land that of it felfe doth yeeld, The mighty Elme that branches broad doth beare, And round about with Trees bedecks the field With Trees, that wilde beares Apple, Plumme, and Peare, But will no Bearefoot breed, nor flinking Gumme, Nor Yewe, nor Plants, whence deadly poylons come,

What to be confidered in the choife of garden ground. Ayre, Windes.

The ordering of Gardens.

And thus much of the Carden ground, which as I faid, is was fred, or may be watred, and is enclosed either with a wall a hedge, og fome other fafe enclosure. After this, it is nedfull it lie well to the Sunne, and warme: for in ground that is very colde, the, warmth of the Sunne will not much auaile it. And contrary, if it. be a hot burning fand, the benefit of the Beauens can little helve it. Doumuft pet loke, that it lie not fubiecto ill windes, that are: dep and fcoeching, and being frofts and mifts. 15ut now to the ore dering of your Garden. Firft, you muft be fure that the ground which you meane to fow in the Spring, be well digged in the fall. of the leafe, about the Kalends of Dayber: and that which you. garden in the fall of the leafe, mult be digged in Bay, that either by the colde of Winter, of the heate of Summer, both the clod may be mellowed, and the rotes of the wedes deftroped, noz. much befoze this time mult you bung it. And when the time of **Sowing**

fowing is at hand a five dayes before, the wedes mult be got out, and the dung layed on, and to often and diligently mult it be digged, as the ground may be throughly medled with the mouid.

Therefore the parts of the Gardens muft be fo ordered, as that Ivhich you meane to lowe in the end of Summer. may be diaged in the Spring : and the part that you will fowe in the Spring. muft be digaed in the end of Summer : fo fhall both your fallowes be featoned by the benefit of the colde and the Sunne. The Beds. beds are to be made narrow and long, as rij, fote in length, and freinbreadth, that they may be the easier wieded : they mult lie in wet and inatrie around two fot high, in day ground a fote is fufficient. If your beds lye to bay, as they will fuffer no water to tarry byon them, you muft make the spaces betwirt higher , that the water may be forced to lie and auoide when you will. Df Of digthe kindes & losts of dunging being fufficiently entreated of by you, ging and I will fay nothing : onely, adding this that the dung of Alles is dunging the beft, becaufe it bicoeth fewelt wedes : the nert is Cattels dens. Dung, and Sheepes dung, if it have lien a piere. The ground as 3 faid which we meane to folge in the Spring, we must after the cho of Summer let lye fallow, to be featoned with the froft and the cold : foz as the heate of Summer, fo both the cold of the Winter bake and feafon the ground. Withen winter is done, then muft we begin to dung it: and about the fourtanth of fiftanth of January, we muft dig it againe, deuiding it in quarters and beds. firft muft the wedes be plucked by , and turffes of barraine ground muft be lapd in the Alleves, which being well beaten with Bies tles, and to trod byon, that the graffe be worne away, to that it fcarce appeare, it will after fpring bp as fine as little hapze, and pield a pleasant fight to the cye, which will be very beautifull. When you have feuered your flowces by themfelues, your ibhis ficke hearbs by themfelues, and your Dot-hearbs and Sallets in another place: the beds and the bozders must be fo cast, as the Weders hands may reach to the midit of them, to thail they not neede in their labour to tread byon the beddes, not to burt the hearbs. And this I thinke inflicient for the prevaring of your ground before the folding. Pow will 3 fpeake of folding, and Of Some what thall be folved in every featon. To speake of all forts of ing. Pearbs and Flowers, were an endle flower, onely of those that \$ 2 275.

are molt niedfull. I meane to entreat. And firft of hearbs. fome are for the Dot fome for the fight, fome for pleafure and fluet fausur, and fome for Whilicke. And againe, fome are for Winter. fome for Three fea- Summer, and fome betwirt both. The firft time of fowing after Winter, is the moneth of March, Apail, and May, wherein we ble to fow Tolworts, Kavilh, Kape, and after Bietes, Lettufe, Sozei. Budarddibbe, Copiander, Dill, and Garden Creffes. Thefecond fealon for folwing is in the beginning of Ocober. wherein they fet Bates, and fow Smallage in Nigella and Arreche. The third . fealon, which they call the Summer fealon, in fome place the Cardners beginne in January, wherein they let Cucumbers, Sourds, Spinnach, Balil, Purflaine, and Saueric. Dany thines may be fowed betwirt these seafons, and yet doe bery well. All Carden hearbs are commonly fowen before the tenth of June. fuch things as you would not have fied, you may fow after this time.

fons to

lowe in.

Some things are foloed onely tho times a yere, in the Spring. and in the end of Summer. Others againe at fundep times, as Lettule, Colwmets, Rocket, Radilh, Creffes, Coziander, Cher. ui 1, and Dill. Thefeare fewed about Barch, oz about Septems ber, and Columella faith, doe come either of the fiede, or of the flip : fome of the rote, fome of the falke, fome of the leafe, fome of the Clot, fome of the Bead. fome of both : others of the Barke.others of the Bith, fome both of the faor and the fippe, as Rein, wilde Davierum, and Bafill, this they cut off. When it comes to be a handfult high : Others growe both of the lade and the rote, as Onions, Carlicke, and such like. And although all things will grow of their liedes, pet this thep lay, Rein will not doe : for it bery feldome fprings, therefore they rather fet the flivs. Thefe that are let of the rote, toe commonly laft longer, and branch bete ter, putting forth young hippes from his lides, as the Onion and Cith. The falke being cut, they all dec fpring againe for the meft part, ercept fuch as have speciali falkes, called by Theophrastus anolaula, that is, fuch as when the falke is cut grow no more : Gala interprets it Secaulia. The Rape and the Radilly, their leaves being rulled alway and couered with earth, doe grow and continue till Summer. The fruits of fome is in the earth, fome without, Offeedes, and fome both within and without, fome lie and grow, as the Eucumber and the Gourd, and fometimes hang, though of greater weight

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weight by much then the fruits of Tres : fome requires faves ano helpes to clime by, as Boys, Lupines, and Beale : fome feede groweth better, the nemer they be, as Liekes, Nigeba Romana, Cucumbers, and Bourdes, and therefore fome ble to freve their Tucumbers, in milke or water, to caule them to grow the fpeds lier. Dn the other fide, of olde fæde better grolveth the 15æte. Barden Creffes, Beniriail, great Barierum, and Collander. In the Bate this is oncly objecued, that the fade commeth not all by in one vere, but part the fecond yeere, and fome the third : and therefore of a great deale of fied, fpringeth but a little. Touching feed, this is to be well fiene to that they be not to old and day, that they be not mingled, or taken one for another : old fied in fome is of fuch force, as it changeth the nature : for of oid Colwort fade fivingeth the Kave, and likewife of Kave fiese Colworts. Allo that pægather not pour fædesto fone, noz to late. The berp time.as Theophraltus writeth, is at the foring, the fall of the leafe, and the rifing of the Dog : but not in all places and kindes alike. Di Sods, the foneft that foring are thefe Balil, Arach, Pauen, what Seed Rocket, that commeth by the third day after the foling, Lettule foring the fourth day, the Lummber and the Gourd, the fift day, pur, loone, and fin, longer ere it come, Dill, the fourth day, Creffes & Buffard, which flowly. liede the fift day, Bietes in fummer the firt day, in fumter the fenth oz the twelfth, Lakes the rir.day, fometime the rr. Cozis ander later : which if it be new, (ercept it be thruft together) it grolveth not at all. Peniriall and great Parierum, come by afe ter prr. daves. Barfly, is of all other the longeft before it come by, appearing the fostieth day after, or many times the fiftieth. Bou The weamust allo confider, that the weather in folwing is of great force : ther for for the featon being faire & marme, they come by the foner. Some Sowing. forts fied one viere. + neuer after come by: fome againe continue, as Warfly, Smalledge, Liekes, Aigella, that being once folved, come by enery være. Such as continue but a være, melently boon their fivding die: other fpring againeafter the loffe of their ftake, as Lekes, Digella, Onions, and Garlicke: and commonly all fuch as put out from the fide: and all thefe require dunging a watring. In folying belide fome think, you must have regard to the Mone, The and to fow and fet in the encrease, and not in the wane. Some a Moone. gaine thinks it best from that the is foure dayes old, till the bic

53

cightiene:

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eightione : fome after the third, others from the tenth, till the fwentieth : and beft (as they all fuggole) the Mone being as loft. and not fet.

THRA. But now I pray you tell bs fomething of the ordes ring of the beft Garden hearbs vou haue.

MARIVS, Some deuide their Gardening time by the Dos neths, as they doe their other husbaudzy.

T H R A. F care not whether by Moneths or other wapes but I would fayne know the ordering of pour Garden hore, for a know in hot Sountries they Garden ali the Winter long, but I. am altogether for our Country, whole order we must here follow.

MARIVS. In thefe parts they commonly beam their Bars Thetime for Garde- Dening (if the weather be faire and leafonable) in the end of fes bruarie. At this time therefore the Garden being dunged, digged. raked, and cleanled, they ble to plant Sperage, and Rewe.

ning.

Of pot-THR A. Z uzay vou begin with Alparagus, oz Sperage, and hearbs. the other Dot-hearbs, cuery one in his ogder: and after ward with Flowzes and Phylicke hearbs.

MARIVS, Alparagus was wont to grow wilde, but now is Alparagus. brought into the Sarden, it is called in Ozake, anoeghes, in Itas lian. Spanilly and French, it is aimolt all one, the one call it Alparago, the other Alperge, the Dutchmen call it Sperages and Spiricus, becaufett comes by of it felfe: for the Garden Sperage they were not acquainted with. It is planted in two forts, either of the feede, or the rote : they take of the fiede as much as you may take by with three fingers, and bestowing it in little holes, every two or this liedes halfe a fote alunder : they let them in rich ground, in February, and couer the ground with dung. The wades that grow, muft be well plucked away, after the fourtis oth day they come by as it were to one rote, and langled toges ther: the rotes have funder frong theeds, which they call the Spenge. In ground that is tric, the fedes are to be fet depe, and well tempered with dung. In wet grounds, on the other five, they are to be fet thallow in the toy of borders, left the mois fure beftrop them. The first years pour mult bacene of the fails that grow : for if you plucke them by by the rotes, the whole fets will foliow, which are to be preferued for tino pere with dunging and widding. All the vieres after, you mult not gather them in the.

the Calke, but pull them from the rot, that the rots being opened. may the better fpring, which creept you ove, you burt the Spring. Dim that you meane to keepe for feet, you muft in no wife medbe withall, after, burne bp the bulhes, and in Winter bung well the rotes with bung and alles, they are planted allo of the rotes, which after two percs you muft remove into a warme and well bunged ground. The trenches where you meane to let them, mut Kans a fort a funder, and a thaft-man in depth, wherein you muft fo lav your Sponges (as being coucred) they may beff grow : but in the Spring before they come by, you muft tole the earth with Blittle Forke, to caule them the better to foring, and to make the rots the greater. Caro would have you to rake them, but fo, as you burt not the rots, and after to pull the plant from the rot : For it von other wile breake it, the rot will die, a come to nothing. What poumap to long cropit, till you fe it begin to groiv to fiede : in Lohich piere for the Wainter time, pou muft according to Catoes minde, couer it with Braw, oz fuch like, leaft the cold doe kull them. and in the Spring open it againe and bung it well. Somethinke, that the first vere it is needleffe to doe any thing to the plant, but onely to wade it. From the rots, which they call the Sponges, there foringeth fir fecertaine buds with crumpled knops, bery god and ulcalant for Sallets : which if you fuffer to grow, it ftraight. Inay bufficth forth with branches like Fennel, and at length grow to be prickly: after it hath flowred, it bearetha Berry, firft græne, and when it is ripe red. If von would have Sallets of Alparague all the pore through : when you have gathered the Berries, open the rotes that runne aloft by the ground with digging, and you that have the roots fend forthnew buds out of hand. It is thought, that if you breake to powder the home of a Kam , and fowe it. watring it well at will come to be good Sperage. In the Spring time they make a very good Sallet , being fodde in water , 03 fatte Broath, till they be tender : for if you fath them too much, they will walte away. Withen they be lod, they welle them with Umegar, Dpie, Pepper and Salt, and fo cate them : og as my friend William Prat, berp failfull in thefematters, telleth me thep cut them in fmall pieces like Dice, and after they have parbole led them, butter them with fluit Butter, a little Minegar and Bepper. 13 A

52

THRA

THRA. Dou have very well thewed me the ordering of Alparagus : I pray you goe forward to Rewe.

MARIVS. Kew, which the Grückes call $\pi i \lambda grov,$ the Las tines Rutam, the Italians Rutache, the Spaniards Ruda, the Frenchmen Rude de gardin, is planted at the end of February,02 in Darch, profeering beft in drie and Summie grounds, it abhors reth both water and cung, which all other hearbs most delight in, it most delighteth in albes: and where all other plants will forms of the fields, this they fay will neuer doe it. The branches being flipped off, and fet in the foring, will very well grow, but if you remove the oldroot, it dieth: it delighteth in the fladdow of the Figge tree, and being fielne (as they fay) it prospereth the better: it is fowed with curfing, as Cummin, and divers other, and cannot abide the preferee of an buckeane woman.

THRA. Ilirgod Lettule here, I proy you how doe you op der it ?

MARIVS. Lettule is called in Dutch Lattich, in French Laictue, in Czieke Seidaf, in Italian Lactuca, and so in Latture, in Spanish Lechugas, whereof besides the wilde, there are three kindes, one crumpled, which Columella calleth Cæcilia, and Spas nish Lettuse, of the Countries where it most groweth, and is greatest estimated, in Dutch called Krauler Lattich, in French Crespue, the other Cabbedge Lettuse, in Dutch Knopf Lettice, in French Laictue testue, of Plinic called Laconica, and Sessilis, because it groweth round like an head, og an Apple. The third soft is called Rounda, because it groweth in compass by on the ground?

TH'R A. But how come you to have to god Lettule, and how doe you ozder them ?

Lettule.

M A R I V S. At the end of February, or in the beginning of Parch, we ble to lowit, that it may be remoued about Aprill or Pay. In hot Countries as Palladius telleth, they low it in Januarie, or in December, with intent to remoue it in February : but you may fold it at any time of the ywee, fo the ground be god, well dunged, and watred. When you remoue them, the rotes mult be pared and rubbed ouer with bung, and fuch as be already planted, their rotes mult be pared and dunged : they love a god ground, moult and well dunged, they forced the better (if you fet by them the Rape) or when they begin to Italke, the Italke being tenderly cloven.

Rew.

elouen, you lay byon it a clod or a Tile thard: they will be white. if you fusinckle them often with fand, or tie fand within the leaves, and both tender and white you fhall haue them. If two daies bes fore they be gathered, their tops be tyed by, they wil be round and Cabbedged. If the rote being remoued when it is growne a hand broad in height, be pared and finered with freft Cow bung, and earth cafe about it, be well waterd, and when it groweth high, the top becut, a potibard laid boon it, the fweterallo they will be : the more you refleaine the falke from floting by. which muft as I faid, be kept dolume with fome frome oz waight, that they may foread the better. If the Lettufe chaunce by reafon of the badnelle of the loyle, the liede, og the fealon, to ware hard, the removing of it will being it againe to his tenderneffe : it will have fundep and divers talks, if taking a Treedle of Shepe, og Goates dung, and hollowing it cunningly with an Awle oz a Bodkin, vou thruft into it the fiede of Lettule, Creffes, Balil, Rocket, Smallage, Percely, and Raddilly, and after wrapping it in dung, you put it into bery and ground & water it well. The Dercely, or Smallage goeth to rote, the others grow in height, keying fill the taft of every one. Constantine affirmeth Lettule to be a mort and cold hearbe, a quencher of thirk, and caufer of fliepe : and that being boyled, it nourisheth molt, and abateth Letcherie, for which the Pythagorians call it Eunuchion. Galen himfelfe the Prince of Phylitions both greatly commend it, who in his youth did alwaics ble to cate it raw, and after in his elder pieres boyled, whereby he kept his body in god temperature. Endiue, in Latine, Intubum, oz Intubus, not bnlike to Lettule, Endiue. fome call it Garden Succosie, the Dutchmen, and common lost, Endiviam, the Italians and the French, Cicoriam, the Spanis ards, Endibia : it is fowne as other Barden hearbs in Barch, it loueth morflure and god earth, but you must make your beds when you fow it the flatter, left the earth failing away, the rotes be bared : when it hath put forth leaves, you must remove it into well dunged ground : that which is fowne before the Bas lends of July, both come to fiede : but that which is fowne after, fædeth not. Pou muft fow that which you would have to ferue pou in winter, in October, in warme ftonie places for Sallets in winter; they ble at this day when his leaves be out, to fold them:

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bp together, and the them round in the top with some small thing, coucting them with some little earthen bedlell, the rotes fill remaining to nourilh them withall: thus boing, they will grow to be white and tender, and to lose a great part of their bitterneffe. It is faid, that they will be white, if they be spinkled a few dates abroad, and bying upon sand, be walked with the raine : And thus is Endine with his encrease preferued all Edinter. Some there be, that contenting themselves with leffe charges and labour, boe only couer them with earth, others againe with firaw: this order of wintering of it, is now in every place growne to be common.

Colveorts.

THRA. I fa allo in this pleasant Garden Colwoores, that we Countrep folkes be fo well acquamted with.

MARIVS, It is miete my Garden Gould not want that. which as you know Caro preferreth before all other hearbes, in pefecibing the wonderfull properties and bles thereof ; and this place I oncly appoint for fuch common Dothearbes , as Colwoorts Bates, Endiue, Onions, Haves, Cauence, Lettes, Car. rets, Katbilb, Garliche, and Barfneps : the worthier fort 3 place by themselves, and as the nature of every one requireth. Col. worts is commonly called in Latine Braffica, or Caulis, in Gricke nequei, in French Choux in Italian Caule, in Spanilo Verza, in Dutch Koil. The olde waiters made diuers loats of it, as at this bay there be. One fost with great and broad leaues, a big falte. and bery fruitfull. This fost is commonly knowne, which being the pleafanter in Winter, when it is bitten with the frofts, is fod with Baken, and bled in Borredge. The tender part of the top being alittle boyled, is ferued for Sallets, dreffed with ovle and falt. The fecand fort with the crumpled leafe, of the refemblance that it bath to Smallage is called selinocis of Apiaria, of the come men people crumpled Coll, og winckled Coll. The third fort which is properly called Crambe, hath a finaller faite and leafe, Imoth, tender, and not bery full of iupce. The fourth fort is the great Cabbedge, with broad leaves and a great head, called in Dutch Rappes, in french Cheuz Cabuz of the olde waiters Tritiana Braffica, and this kinde is oncly molt fet by. In Germanie there is one kinde of them that they call Lumbardy Colloct. on Sauov Colwort, fwieter then the other, and not able to endure the Winter ; and another with very broad leaves crumpled, and

full

fall of inzinskles, but a great deale blacker, which the Italians call Nigrecaules, and the Latines Nigra Braffica, of the number of those that they call commonly red Coll, of the olde writers Marycina Brassica. There are befides other forts, taking their names of the Countrey where they grow, as Aricina and Cumana. The helt time for letting and folving of Colworts, is after the Ades of Avrill. In cold and raphie Countries, the offner it is dunged and raked, the better a great deale will the Colworts be : fome ble to toipe them about the Balends of March, but the chiefeft of it gos eth out in leafe, and when it is once sut, maketh no good falke for the Winterafter : yet may pout wife remoue your greateff Cell. and if you to boe, you thail have both moze fied, and greater vielo: for it to aboundeth with lade, as it is fowed with no leffe aduants tage then Rave fiede. For the making of oyle, Collworts may be fowen all the piere long, but chiefly in March after it is fowed, it appeareth within ten daves, creet your fades be old and dav. foz old fiede will grow to Rapes, as old Rape fiede will to Tolworts. Some lavit profpereth beft in falt ground, and therefore they ble to call upon the ground Saltpeter oz albes, which alfo deffroveth the Caterviller : it is removed in June , chiefly when it hath put forth fire leaues, and that when the weather is rainie, fo that you couver the rote befoze with a little frefhoung, and way it in Seas webe, and fo fet it. Doze biligence is to be blid about the Cab. bedge : it muft be fowen in March in the full of the Done, that it may remaine in the ground two Moncs, and in Day you muft take them by,and let them againe two fote alunder. The ground muff be well digged where you let them and as fall as they grow, the earth must be railed about them : fo that there appeare no more than the very toys of them : for to caule them to grow faireand great : you muft as oft as you remoue them, banke them by with . carth about them, that nothing but the leaves appeare. And thus you mult often doe to all the kindes of them. the boare frofts make them have the queater fluceineffe. The Elinevaros (they fay) where Colluoits groin, doe picio the worler Times, and the Tell corrupteth the Wine ...

THRA. I pray you procere with the reff of thele pothearbs.

MARIVS. Pou fo hereby Spinage, fo tearmed (as you spinage, may know) of the prickly fives, called in Latine Spinacia, and

cuen to in Italian, Spanilh, French, and Dutch : it is folune as thole befoze,in Barth, Aprill, and fo till September: if it may be fuell watred, it commeth by in feauen dayes after the felving, you thall not neede to remoueit. The fode muft prefently after the fowing be couered, and afterward well weded : it refuseth no kinde of ground, but profvereth in cuery place: you muft often cut it. for it continually growcth, it is to be boiled without any water. wherein the boyling it both vill great floze of inpre, and contens ting it felfe with his owne liquour, it requireth none other. Afters ward, being beaten and firred with the Ladle, till the clammi, nes be gone : it is made by in little balles, the inver frained out. and boyled byon a Chafyndifh with Dyls oz Butter, fome adde thereunto Heraius, or the invee of lowre Grapes, to make the talte moze tarte, I their pou in ozder as pou fe, all my Bitching hearbs: now followeth Sorrell, called in Latine, Acetofa, in Itas lian likewife, in Spanilh, Romaza, in French, Oxeila, in Dutch. Surick, of the foluzones thereof. There are funder losts of it: we haue at this day two kinds, the garden Sourell & the wilde, which are pleafant both in broth e Sallets, and of this hearbe, the wilde forts are both folyze in tafte, and fmaller in leafe : it is fowed as all other vot-bearbs are, and it aroweth of it felfe in Meddolves and Gardens. Cummin and Coriander require fvel ozbred gronnd: they are folved in the fpring, and muft be well weded. Cummin Coriander is called in Latine, Cuminum, and almost like in all other Lans guages: it is folded beff (as they thinke / with curling and erecras tion, that it may profper the better. Coriander is called in Latine Coriandrum, and is almost by the fame name in al other tenques: ft doth beft profper inhen it is fomed of fiede that is oldeft. Smal-Smalledge ledge and Parfly called in Latine, Apium Petrolelinum, and Apium er Parley. horrenfe, in Italian, Apro domeftico, and Petrofello, in Spanily, Peterfillie, of I eterlin : it is fowed at the Acquinoctiall, in the fpring time, the fied beaten a little, and made by in round pellets: we call it Acquinoctiall when the night and the daves are of co quall length over all the world : that is, when the Sunne, the Captaine and Authour of the other lights, the bery loule of the -wello, doth enter into the fignes of Aries and Libra. It is thought to profper the better the older the fiede is, a to fpring the foner: it commeth by the fiftieth day, oz at the foncit the fortieth day after

Sorrell.

r Cummin and

after it is fowne : when it is once folune, it abideth a long time. it reispreth in mater or wet. Fenell, in Atalian Fenochio, in Fenell. Spanif Hinozo, in French Fenoil, in Dutch Fenchel, is foined in the beginning of the Spring, in bot funny places, fony ground, of any ground : being once folune, it fugingeth every pere. Annife, Annife, in Latine Anilum, fo knowne in most tongues, as Cummin and Coriander : requireth a ground well ordred and breffed. Dyll, in Dyll. Latine Anethum, in French and Italian almost fo; in Spanify Eneldo, in Dutch Dyll, endureth and abideth all kinde of wear thers. but pelights molt in warme ground : if it be not well was tred, it must be fowed thinner. Some neur couer the fiedes when they fow them. Supposing that no Bird will meddle with it : it commeth by also of it felfe as fennell both. Cheruill, in Cheruile. Latins Cerofolium, in Dutch Kerbell, in Italian Gingidia, in French Cerfucil, defireth a god ground, movit, and well dunged: it is fowed with the reft in cold places. In this fame Moneth they alfo fow Beetes, though you map fow them when you will at as Beetes. ny other time of the viere as Spinage, it is a common Countrey Bearbe : they call it in Italian Beicola, in Spanish Acelga, in Dutch Beeer, or Mangele. Do Barden bearbe hath greater leaucs, fo that with due ordring, it groweth like a young trie. It is called Bera, becaufe inhenit feedeth it is (as Columella affirmeth) to the likeneffe of the Gickeletter B. There be two forts of them, the white and the blacke, the ordring of them is after one fort : it is fowed as Collowetts, Sorrell, and Raddiff) are, in Parch, Aprill, o: Day. Some thinks the beft time for folying it is while the Pomegranate doth flowse : it may be folved nevertheicle as Lettule, Cols, and divers others, at any time of the Summer. The fiede, the older it is, the better it is to be folone, as are the fiedes of Sinallage, Barlley, Barben Creffes, Sauerie, Wilde Darierum, and Coziander, though in all other the newelt be beft. It commeth bp in Summer the firt day, in winter the tenth after the fowing : it loueth a moult, a rich, and a mellow ground: you may remone it when it hath put forth fine leanes, if your ground like well to be watred : if it be drie ground, it must be fet in the end of the Summer, as I have faid of Collowits, though it make no great matter at inhat other time voudoe it. Withen youres mone it, you muft rubbe ouer the rote with new dung. This is proper

moner to the Bate, that his fade come not all by together, but fome the pare after fome the third pare : and therefore of a great Beale of firee, there is at the firft but a little forw, it groweth the broader and the whiter, if when it is fomething growne, you lay buon it Sile fonces, o: fuch like, to caufeit to fpicad, as 3 fpake before of Lettule, Barden Crelles, in Italian Nallureio, & Agretto. in Spanift Meltuerzo, in French Creiles de gardin, in Dutch Kerls, are foined both in the Spring, and at the Fall of the leafe. it commeth by the first day after it is folune, and dainketh away the monfture from fuch hearly as grow nore himmingled with other hearbs, he careth not what weather come, and therefore prospereth both as well in Winter as in Summer : if it be folune foith Lettule, it commeth by creadingly, it delighteth in moyfure, which if it want, it will doe well enough : in water places if groweth of his einne accord : as about Padelbor, a towne in Wellphalia, it groweth in great abundance in the Liner, and therefore is called of fome Water Creffes : it was called in the oid time Silimbrium, The branches when they ware olo, are net. fed together with white happy rings. Garden Poppy, called in Latine Paupaver fatium, is thought beff to grow where olde Stalks have beene burnt : it is fowed in warme places, with other Dot hearbs, Mullard-feede, in Latine Sinapi, in Dutch Seneff. in Italian Senape, in Spanily Moltaza, in French Sencue, there are two kindes, white and blacke : it is belt to be fowed in the end of Summer, and againe in Barch. Where it is once folone, it is hard to ridde the ground of it againe, becaule the lede doth fill grow as it falleth. It loucth to grow boon dung-hils, and caff bancks.

THRA, 3 le pon haue berpfapze Haddiffes here.

Raddifh.

MARIVS. Pothing lo faire as I have had them, for where as they delight in the Sunne, in warme ground, my Gardners have herelet them in the Chadoly. The order of them is to be let in very god ground, and lying boon the Sunne: fome fay, it doth net greatly care for dung, fo it may have chaffe firatived boon it: when it is come to fome growth, they mult be coursed with earth, for if it flourith once aboue the ground, the twists will neuer bis gwd, but hard and full of pith. It is called Raddith, becaufe it ercedeth all other rotes in greatneffe. Plinie Inputeth, that his false

Garden Creffes,

Garden poppy.

Multard-

fain at Erford in Dermanie, Raddilly as bigge as the body of an Infant. It is folved twife in the piere, in February or March. the mone being in the wane left it grow to much in leaves foure fingersdiftant one from the other : and againe in August, which. is the beft fealon for them. Ehole that pou fet after the tenth of June. will neuer febe, the like is to be obferued in all other fieds : it commeth by commonly the third day after it is fowen : in hot and Southerly Countries, the weather being faire, it groweth fone to falke: and quickely feedes. The leaves as they grow, mult fill be trampled downe and troden byon, whereby the rote . thall grow the greater: otherwife it flowsifieth with leaves and much encrease to the leafe, and not to the roter the leffe and the : fmother the leafe is, the milder and the finiter is the rote: colde. as fome fap, both further the gooneffe of them. they fay they will . he very plcafant, if the fiede be fieped in Dedth, oz in the invce of Raisins: they ware livet with colde as the Rave doth and their litternelle is taken away with brine, and therefore fome would : have Kadifhes watred & nourifhed with falt waters : being fodden they come to be very finit, and ferue the furne of Rapes : gie uen falling, they prouoke bomite, they are burtfull to the beines and to the tieth. Itaddily eaten at firft, is a god preferuative as rainft povion: eaten befoze meate, it breaketh winde, and prouss keth baine: & after meate it lofeth the belly, it is called in Latine: Raphanus, in Italian Raphano, in Spanify Rauano, in French. Raue, in Dutch Retich,

T H R A. There is another kinds of them, that the Dutchmen call Merrenich; I take it to be that which the Romanes ealled Armaracia; called commonly in Italy Ramaracia, the first letfer misplaced.

MARIVS. Pou fay well, but this is more full of braunches, greater in leaues, thinne in body: the leaues are not bulke to the former Radich, but that they are a little charper and longer, and the rote flenderer, and therefore there are fome that denie it to be Armaracia: but here let the Philitions contend. The ophraftus maketh mention of fundry forts of Radich : This kind of Radich hath a wonderfull by ting talke, a great deale more then Quillarde fied, and fetcheth teares from the eyes of them that eate it; it is fet

and

and planted in this fort. The rote is cut in a great number of væces, whereof every piece profpereth: for if pou plucke bo this kinde of Kaddilh by the rotes von may cut off a and quantifie of the rote, and deviding them into fmall veris, fetting the alos rote againe by himfelfe, and they will all grow and profper hery wellande auffinith Gaussian ad el biagel e plate

THRA. Dea : have you gotten the Rape ? Bitherto T thought bee had onely belonged with us for we ble to fow them after the Sumre hath benc at the higheft, and immediately after our other Corne, for the fuffenance both of man and beaff.

Rapes.

MARIVS. Bon Doe well, and we low it now in Map, and in water ground foner, and in fome places in July. There are diuers losts of them fome of them round, fome grow all in length. and are molt pleafant in talte, as at Bing z, and in the Country of Bayar. Some againe of the quantitle of a mans head, and of a hundled vound ineight: but the imalleff fort is the finetelf. There is another kind of Rave that they ble to fome, which carrieth his fede in little Coas, & is chieft planted in Germanie for to make ople of the which you the other day, fuake of it'is called in Oreke yolokes, in french Raue, in Italian Rapo, in Spanith Nabo, in The little Dutch Ruben. There is allo another milde kinde called Rapunculus, that groweth halfe a vare high full of fied, and tender top. Rape. ped. This they gather in the Spring time, t. me the falke be forong op, & pulling it op by the rotes, do ble it in Sallets, fup-Nauens. poling it to be a wilde kinde of Hape. The Pauens allo called in Grake yoldins, in Latine Napus, in French Nauer, in Italian Napo, in Spanith Nabicas, in Dutch Stockruben, may be counted in the number of Kapes, for Kapes in fome ground change into Pauens, ; in fome ground, Pauens into Kapes. Thefe alfo loue to grow in a well watred, mellow, and a rich ground: though fuch as grow in fandle and barren ground, proue often the flueteft in eating. They ble to lowe them in Barch, and in fome places bee Parfneps. fore, as allo in August. Parlneppe in Oreke sapehiurs in Las tin Paltinaca. in other tongues almost as in Latine, is bery pleas fant to be eaten, and requireth a fat and rich ground, and deve diaged, whereby the rote may have come enough to grow in : it Red and is fowed and fet in the furing, and in the end of Sommer. vealow THAA. Don haue bere allo in this Garden red Carrets. Carrets MARIVSO

MARIVS. I have fo. Dellow Carrets is called in Latine Siler, in French Cheruille, in Italian Silero, in Spanish Chiriuias, in Dut.h Querlin, I thinke you know it. Plinie witteth. that l'occus was fo in love with this rote, that he caufed Carrers to be percly brought him out of Bermanie, from the Caffell of Gelaupa fransing buon the Rhine. It delighteth in colde plas tes, and is islued before the Balends of Harch , and of fome in September : but the third and the belt hunde of fowing as fome thinke, is in Auguft. There is allo wilde Carrets, a kinde of Barlney, in Latine Daucus, in Italian Dauco, in French Carote lausee, in Dutch Woortzel, there are that suppose it to be the pellow rote, that is to common in Germanie, they are to be fowed in Barch. It is generall to Kapes, Kadilhes, Parineps, Carrets, Dnions, and Liekes, that they be well troden byon, og kept cut, to the end the rotes may grow the greater. Di Likkes Leckee. there are two forts, the one called Capitatum, and the other Se-Auum, which they ble alwaies to cut clofe by the ground. The headed, og let Leke, in Latine Capitatum, in Italian Porro capitato, in Spanify Puerro con Cabeza, in Dutch Lauch, in French Porreau, the other Lette in Latine Sectile, in Dutch Schniclauch, belide the often raking and dunging, mult be watered as oft as you cut it downe. The fades in hotte Countries, is folved in Januarie oz Feszuarie, and in colder places, in Barch : to caufe it to growe the fairer and the better. They ble to knit by a god deale of liede together in thinne Linnen cloathes, and fo to lay them in the ground : but to make them greater headen, when it hath well taken rote, they ble to plucke it by by the blades. and raile it io, that as it were hanging and borne by by the earth, it is forced to fill the emptie place that lies buder it : the blades and the rotes cut off, they ble to fet the heads, buderlaying theme with a Tilebard, that when as they are not able to runne dolune in length, they fould be drinen to grow in bigneffe and breadth. The Lekedelighteth in god ground, and hateth watry ground: fowed in the Sozing, it muft be remoued oz fet againe after Bars uell, that they may be the greater, the earth mult be continualip imfed about it, and thep mult be pulted and rapled by, as I faid before : if when you remove them, you make in the heads of eucs sie one a little hole with a piece of Riege, oz any thing ercept

Iron,

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From, and theneft therein a Sucumber fiede, they will grow to a loonderfull arcatneffe : fome ble in ftead of Eucumber fabe, to put in Rave liebe. De haue berp large and great Liebes, pou muil hollow a Steatle of Coates dung, and fill it full of Leke fade, for the little fyrout at the firferefrained, will runne altoges ther in one, and fo come forth of the ground : and this as Hieronimus Cardanus waiteth , hath beene often tried to be true. They Mall net lauour of Lickes or Onions, that have eaten Cummin after. It commeth by the tenth day after the fowing, and lafteth flus pære : the firft være it contenteth it felfe onely with bearing of leanes, the nert pære it rifeth in a iong falke hollow within, the top garnifico with round knops of flowers. The Onion : in Latine Cepa, or Cepe, in Italian Cipella, in Spanich Cebolla, in French Oignon, the nert neighbonr to the Lake : is also of ting kindes, the one kinde called Capitatum, that groweth to head, the other Fillile, that without any head onely flourilheth in blades. and is often gathered as Lakes are, and therefore onely is fowne. and not let in Februarie or Warch in faire weather, and in the fvane of the Mone : it delighteth inrich ground, well digged and Dunged, and therefore Columella would have the around well fals lowed, that it may be mellowed with the Winter frofts, and af. fer bunged, after well digged againe, and the rotes and windes cafe out, laid out in bees and folged : it is called Fiffile, becaufeit is parted and divided below, for in the Winter it is left with his fop naked: in the Spring time the blades are pulled off, and others come by in their places. The hears are fet, and if you plucke away the tayles and the outgrowings when you fet them, they will grow to be very great. Twenty daves before you let them. tigge the ground weil, and lay it day, and to full they profver the better. The heads are let in Automne, and grow to fed as other plants doc : if you meane to gather the fiedes, when the false is growne, pou muft propit by with little fickes, that the wintes. thaking of the falke, thatter not the febrs, not breake the falke: which febe pou muft gather before it be all blacke , for the blacke nelle is a true figne of the full rivenelle: if you will not have it fied but head, plucke off the blade ftill close by the ground, to thall all the maintenance goe to the rote. Among all other hearbs, onely the Onion is not fubica to the force of the Done, but hath a cons trarig

Onions:

Fiffile.

Onions.

trary power, for it wareth in the wane of the Mone, and decreas feth in the encrease of it : pet there are that hold opinion, that if you fow them in the wane, they will be the finaller, and fower : and in the encrease, they will be the greater, and the milder. The red Dapon, is more thanke then the white, they are biff preferued in Barley chaffe, if firft you dip them in hot water, and after day them in the Sunne, till they be through day. They are of the common people thought to lak longest, being hanged by in the linoke : far the kindred it bath with the Dupon, I proceede to fpeake nert of Garlicke, called in Latine Allium, in Italian Garlickes Aglio, in Spanifh Aio, in Dutch Knobloich, in French Aux, it arolucth with a blade like the Duyon, but not hollow, the faike round, and the flowces in the top in a round tuft where the firde lpeth. Barlicke groweth both of the head and the febe, as the Devon and other of this kinde doth. It is commonly folged in Februarie or march, according to the disposition of the weather. as the Onvon is. It would be let in the bubermoft part of little narrow rivges, the Cloues being diffant foure of fue inches one from the other, and not very daye. After, when the Cloues have put forth the little frings, or when their blades are come by, they mult be well raked, for the oftner vie doe to, the areater they will be : but if you will have the heats the greater, before it grow to falke, you thall winde and meathe the grome blades together, and tread them to the ground, for that continual! treading byon them will make them the greater. In Deaber the Cloues muft be plucked alunder, & let in row bpon high bozders, that they may leave the danger of the winter formes. They fav the fcent of them will ccafe if you eate after them the rote of Bets tofted at the fire: thus faith Plinie out of Menander.

T HR A. What hearbe is that yonder, that commeth by fo hie as a man may make a Caffe of the Calke, the leaves large and round, the flowze in thape lieming to compare with the Role ?

MARIVS. It is Holioke, og Garden Ballow, in Latine Mallowes. Malua hortenlis, in Dutch Peppel, in Italian and French almost as in Latine.

THRA. What, the fame that Horace taketh to be fo wholes fome for the body and which of Hefiodus and Martial is fo highly sommended 2

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MARIVSA

MARIVS. The bery fame: and alfo which is more wonder, full init, the leaves turne about with the Sunne, fo that it map ferue in ftead of a Dyall , declaring by the turning of his leaues what time of the day it is, though the Sunne doe not thine, which the Bhilolophers thinks to bedone, by the drawing of his mov. fuce. In Affica, as Plinic writeth, it commeth in leaven moneths to be like a young tree. and lerues well for a walking faff. It is fowed in Daober, of in the end of the Summer, as allo at other times, that by the comming on of winter, it may be retraphed of his high growth: it reiovceth in rich and moiff ground, and muff be remoued when it commeth to have foure or five leaves, it aroluth belt when it is young: when it comes to be greater, it dies in the remouing. We ble it both for the pot and for fallets, the talke is better when it is not remoued: you muft folve it but thinne for growing to rancke, and in the midft of them, you muft lap little clods og ffones, it requireth continuall raking, and mas keth better the ground where it growes.

THRA. I maruaile whether you tow Purselaine, ath it groweth wilde abzoad.

Purflaine.

MARIVS. The Latines call it Porculacan, with the Italis ans it hath the fame name, in Spanish Verdolaga, in French and Dutch Porchelle, it is fowed in Oardens, and well ordered doth grow the better, and spreadeth the farther, it hath a blacke fiede growing in little graine cups.

Buglose.

T HR A. Buglole, that the Latines call Buglossum, the Dutchmen Ochlenzung, og Burrersth, the Frenchmen Borauge, the Italians Borache, the Spaniards Boraic. Is not this if that I fix here with the faire blew flowge, and a stalke a for long, andfull of branches ?

MARIVS. Buglofe is at this day with the Pothicaries called Bozage, though they differ fomething in the flowse, and in very backe they are two funday Dearbes : for fome call the common Bozage, the leffer Buglofe, and the greater Buglofe is thought to be that which Diofcorides calleth Circium, the true Buglofe : the flowses of both forts are bled in Sallets and in Whine, becaufe it maketh the heart merry, and therefore is called in Gracke in operawin, that is to fay, gladnes: the leaues are alfo bled in tracking of meates, it is folicen about Parch, 2 once feither

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it will never away, there is also a wilde kinde of it.

THRA. I pray you goe forward, and tell bs some thing of Strawberries, which here grow with great plenty and beauty, helped as it femeth with god ordering.

MARIVS. They are to, for we ble to bring rotes out of Stravethe woos, which being fet and planted in the Barben, profper ers beries. cædingiv thus og theie vieres together : and after, wee evther remone them againe, becaufe they ware wilde, og fet the wilde in their places : and fo have we them to pielo their fruit twife in a være in the Spring, and in the end of Summer. And aithough it groweth of it felfe in fhaddolup lowds in great plenty, as if it delighted in thadow of Eres, yet being brought into the Gar. dea, it delighteth in funny places, and good ordering, reiding a areat deale more and better fruit : it creath boon the ground without a stalke with small strings comming from the rote, with a white flowze, and a leafe like a Trefoile, indented about. The berries, which is the fruit, are red, and take very pleafants ly : the Dutch men call them Erdbern, the Frenchmen Freles. There is another fruit that groweth fomething higher, whole berry is allo like the Strawbery. Diofcorides fismeth to call it Rubus Idzus, the Biver of Ida, becaufe it grows Rafees. eth in great abundance byon the Mountaine Ida. It is not full of prickles, as the other brambles are, but foft and tender, full of branches and whitily leaves, it beareth redde berries, fomething paler than the Strawberp, and bery pleafant in tatte, The Dutche men call it Imberen, the Frenchmen Frambolas.

T H R A. What is that groweth yonder, a yard in height ? M A R I V S. It is commonly called Liquerife, in Latine Dulcis Liquerifs. Radix, in Italian Regolicia, in Spanilly Regaliza, in French Rechile, in Dutch Clarus, or Sussibilits.

T H a A. I did not thinke to have found it here. I heare it groweth very plentifull about the Peine, I would be glad to heare how doe you order it, for it hath a rote for the lwætnelle thereof (whence it taketh his name) very commendable.

MARIVS. It is let of young fyings of the cote: as the Boppe is, in drie light ground and funnie.

THRA. What fay you to fmall Keasins, called in Latine Smalikea-Ribes, doe you thinke the olde writers knew this bulk? zins.

MARIVS

MARIVS. That which we call at this day Ribes, and the Dutchmen Saine Johns Pearle, becaule about Diolummer it is garnilhed with red and rich berries, having a tarte taffe, quenching thirff, chiefly, the raging and ertreame thirff of feners, and coding the flomacke, which the Spothecaries in Suger of Donie kap all the yere, it is thought it was buknewen to the old wais ters : but now a common bulk bled for enclosing of Gardens, and making of Borders and Arbours: it will eatily grow, but that it is fomething troublefome, by reafon of his tharpe patches to be bent about Sommer houses.

Hoppes.

THAA. Pour spake cuen now of Hops, doe you let in these your princely Paradules, that plant that is to common with the Countrey man about bs? they make great gaine of it.

MARIVS. Eell pou therefoze, I pray you , how they doe blett.

THRA. It is fet of the rong thotes, as you tolde a little ber Reade the perfect or- fose of Liquerile, and that in the end of Sommer:o: if they feare dering a hard winter, in Barch. The fets or fintes are cut from the hereof, in olde rotes, and are fet in ground well covered with deung and Mafter good mould, and afterinard billed, and fo fuffered to remaine all Esympid Winter. In the foring, the earth is ffirsed with Bakes, and not Scote bookeof with Spades, and the hilles railed, and the ground rid of all hurts-Hoppefuil wedes. About Baie.certaine powles are fet by been which Gard.ns . the Hoope climbeth: all the fpray that fpringeth about the flowre is commoniv cut off. About September, o: in the end of Auguft. the folures or bels are gathered and kept to make Bare with : when the Doppes are gathered, the remaines are cut towne ciefe to the ground, and the Bils being againe rated, are coursed with dung. The toys, and the young buts that come first cut in Avail, are bled to be gathered for ballets, and kupeth them from grows ing to ranke. 15ut now I play pourgoe on, and returne to the Defeription of pour Carden. D what creellent Belons . Dom: pens, Cucumbers, and Courdes have you here. I play von tell in what fort vou order them.

> MAAIVS. Delons (which fome, becaufe they are fathioned like Apples, call Pomes) are of ithe kinde of Cucumbers, and to are the Peyons, which the Frenchmen call Pompeons. The Cucumbers are called in Latine Cucumer, in Italian Cucumero

Cucumbers.

60

or Gedruplo, in French and Dutch Cocumbre. They change to Dompeons, and Dulkemillions, from which they onely differ in thave and greatneffe : when they ercied in greatneffe, they become Domycons, and when they grow round, they are Delonpompeons : all these kindes are called of some writers Delong. The Greatans call all the forts, as well Cucumbers as Delonpompeons, by the name of Pompeons and Delons, though there are some that make a tifference betwene Bompcens and Adelong, neither doe the learned pet throughly agree byon thefe names, not can it be certainely faid what kinde the olde maiters meant by Domucons, f Delouvomvcons. Dompcons boc crieve along byon the ground with rough leaves and vellew flowie. and are pleafant to be eaten when they are rive. The fluctet fort of them they call Sucerino , or Muskemillions. The Delone vomvcons are luvpoled to foring firft in Campania, being falbics ned like a Quince. This kinde hangeth not, but groweth round lping boon the ground, and being ripe, doe leave the falke,

Some Cucumbers are called Citrinis of their yellownes fuben they beripe, and alfo Curuli, or Curcoli, they grow all in length. and are fpotted as the Citrons are : fome be called Marin, and be called in Italian Cuculla Marina, the fed whercof is to be caten before they be ripe: they are cut in pieces, and porredge made of them, not much bulike in fallion to the Delon. There is allo another kinde of Eucumber of a huge compasse. almost as big as a buthell: the Bowers and Barueft folkes in Italie, ble to carry great pieces of them to the field with them to quench their thirft. Pou muft fet all theie kindes in Barch, the fiedes muft bee fet thinne, two foote one from another, in watrie ground well bouns ged and digged, specially landie ground : you must lay them in Milke, or water and Honny thee daves; and after drie them and folve them, fo thall you have them very pleafant. They will have a very fuit favour, if their fiedes be kept many dayes as mong Kole-leanes. Pour Lucumbers thail be long and tender, if you let buder them water in a broad veffeil, two handfuls bus der them. They delight in water to much as if they be cut eff. they will yet bend toward it, and if they hang or have any flay, they wil grow croked, as allo if you fet oile ly them, which they greatly abhorre. The flowers being fuffered to grew in pipes, do grow a 韵.4 manders

wonderfull length. They love not the Winter no more then both the Courd , inhereunto they are almost like in nature : for the flowers, the leaves, and the claspers, are like of them both : but the Courd is more bulic in climbing, to that with halfy growth, it fpreadeth quickly over the hearbs and Summer houles, running bp by the walls, and mounting bp to the bery Eiles of the houfes ... having a great fuit of a monfrous bigneffe: hanging by a fmail. falke, in faction like a Peare, and griene in colour, although when it hath fielered, it will grow in what fathion you will have ft : they lay, there hath beine fome of them nine fote in length. The round enes allo grow to be bled for great beffeis : the runde of the new ones. is folt and tender, but of the old ones hard, where, of when the meate is out, travailers make great bottels to carrie Dinkein. The Gourds that are bled to be eaten in Summer, are. fundip in thape, fome are round, fome long, fome broad : and though the fathion be divers, pet the nature is all one: for it is made by Art to grow in what thape you will, as in the forme of a cree ping Dragon, or what you lift, they are called in Italian Zuma, in Spanith Calabaz, in Sutch Kuirbilch, in French Vne courge. The fiedes that the Gourd beareth nert to the falke (as Paladius . faith) are longeft, they in the middeft round, and those that lie on the lide, thost, broate, and flat : if you fet the tharpe end of the feeds downcinate, as Columella faith, peu thall have them both greater Gourds and Cucumbers. It delighteth in a moilt, rich, well dunged, and well watred ground. That which groweth without water, beings the pleafanter fourt : and that which hath water enough, nades the leffe inking to. The floivers inhere .. they befet, mult be digged a foteenda halfe deve, the third part whereof must be filled with arawe, and then with good ruch mould : it muft be filled to the middeft , then the fordes being fet. muft be watted, till they be fprung, and after, earth laid to them fillas they growe, till the Furroiv be filled. They muft be fet thinne, two fote a funder, it commeth bp in fire of feauen dayes after the fetting. Those that are fet in brie ground, muft be berie well watered, therefore they ble to fer by them carehen vots full of water, with ragges or cloutes in them to water them. When they be a little growen, they mult have belyes let by them to climbe boon . the longer they be, the better the meate is.

Gaurds.

Don

60

You must beware there come no woman nære where you lette them, for their prefence doth greatly hurt them. Those that you kæpe for fæde, you must fusfer to remaine voon the stalke till Winter, and then gather them, and drie them, either in the Summe or in the smoake, for otherwise the swee will rot and perish. They will long be preferued, and continue fresh, if after they be gathered, they be put into a close vessel with the Lws of white wine, or hanged in a vessell of Unegar, so that they touch not the Unegar.

THRA. What meaneth that great Thikell that springeth there ?

MARIVS. Did you never read in your Columella of the Hars tichoch, specially in his verses that he wrote of Gardening, where he faith:

Goe let the bryftled Hartichoch,

That well with wine agrees, &c.

Athenaus in his fecond bake Dipnolophus out of Sophoclus. A Thiftell is the Bartichoch that every where doth grow. It is a Artichoch kinde of Thiftell, by the viligence of the Gardner, brought to be a good Garden Dearbe, and in great eftimation at poblemens tables: it is as you fee, framed with a ground prickly head, having a great fost of Flakes fet in ozder fteplewife. The Latines call it Strobilum becaufe the fruit of it fomething refembleth the Dinco apple. The Frenchmen call it Alticocalum of the Arabicke atircle Al, and Cocalos a Pincapple, whereof it is corruptly called Artichault, in Italian and Spanify Cardo, in Dutch, fometime by the French name, fometime Strobrin. It is called of Columcila Cinara, becaule in his grolwing; hee chiefely delighteth in Albes. The fied is belt fowen in Barch, and the fets in pourmber : if you will have it vield fruit in the furing, you must beffow much affes boon it: it will hardly beare the firft være that it is fowen. Beware that you fet not the fiede with the wrong end vpluard, for fo mall your Artichoch proue very little and cuill fauoured : It loueth good ground and well bunged, and prospereth ver in fat ground. Palladius would have you mozconer, to let the faces in well ordered beds, in the encreale of the mone, halfe a lote a funder, and not diepe, but taking them in their of your fingers, thank them cowne, till the earth come to the first courts of your fingers,

fingers, then couer them tenderly, and water them often, speckally toward Summer, so thall you have the bigger fruit. Withen they grow up, they must be continually wered and bunged, as y faid, with alles. Elley fay, they will lose their prickles, if the tops of the field be made blunt upon a fione before they be fet : and swirt they will be, if the field be leid in Pilke. Pou must hispe themfrom Powles and Pile, with Cats or tame Wiefels, as Ruellius teacheth you. Athen was called the fialke of the Artichoch, ukuroy, that lieth upon the ground, and that which flandeth bright, wageixa.

THRA. Waell, what hearbe is ponder fame that commeth bp as it were haires, with a blewith flower & pale, having in the middeft of the belles, as it were, fierie pellow tongues ?

Saffron.

MARIVS. It is Saffron, in Bickle neonoc, in Latine Crocus, in Italian and French, fo in Spanith Aczafran.

T H R A. What næde we care any more for either Coricum, Sicil, or Cyren, from whence wee fetch it with fo great char, ges 2

MARIVS. Dea, there groweth great plentie of it in Gera manie about Spirs, and diners other places, which may compare in gooneffe with any other place. It is fet in Darch, of the head that it hath.round, and in Cloucs as the Lullic, the Leke, and the Sea Onion. Conftancine affirmeth, that it may be fet of therot. as some as the flower is off. The rotes of the heads doe fo ens creafe buder the ground, that of one of them fome piere fpringeth cight or nine others. In many places they are removed every feauenth oz eight pære into bitter ground, whereby they come as gaine to be as godas at the first. In the Countries lying about the Rhine, they pluck them by enery third piere, & lay them a days ing in the Sunne till August, and then pulling off the outer figin. they let them againe halfe a fote one from the other : the beff heads are those that are fattelt, and have little haires, the world loke rottenly and ill favouredly, and have an ill favour : It des lighteth to grow by high wates and nere forings, and to be tread and trampled on, profpering as it were by oppreffion : it groweth griene all the Winter, it is gathered in Autumne, when it is come to his colour, by plucking out the little pellow tonques from the bell, which are after wards dried that or foure dates together.

and

62

and well picked and purged, and fo made by in Bores : fome thinks it beft to day it in the Madoly. It is craftily counterfeited by the Apothecaries, braying it in fod wine, which they befmeare, adding thereto the foun of filuer og lead to encreafe the weight, the craft is perceived by the duffineffe thereof, and by the fausur of the lod winc. The profe of the god is, if it crackle betimene the hands as a brittle thing, which the counterfait both not, or if in putting it to your mouth, it caufe your eves to mater. Wiheres fore, the beft is that which is new, and bath a pleafant fmell, in cos lour like to Gold, and dieth the fingers in touching it. In Barch von mult purge the ground where it groweth, and whether ve pluckeit by og not, not with fanding, other hearbs may bery well grow there witill August : Purfleine, Parflep, or fuch like bearbs Dae belt grow there. And when the Saffron beginneth to flowce, von muft rid alvan the other hearbs : for in Barucft time about Sentember oz Daober it flowzeth.

THRA. Here is great floze of Rolemarie, the chiefeft beauty Rolemary. of Garbens, and not to be wanted in the Litchin.

MARIVS. Dithe ordering of Rolimarie, fith you will have me, I will fpeake a little. There are which supposett to be the fame which the Greekes call A:Cavoric, becaufe it favoureth like Frankencenfe, in Latine it is called Rolmarinus, and in all other tonquesit kepeth the name, it ferueth both for pleafure and profit. Theophrastus maketh two kindes of it, a barraine, and a fruitfull, and is fet of fmall flips in Apaill : it is fet by women for their pleasure, to grow in fundry proportions, as in the fathion of a Cart, a Decocke, og luch like thing as they fanfie. It delighe teth in fionie or rough ground, and in the tops is the feed enclosed in little hufues white and cound. It foluzeth twife a piece, in the Suzing, and in the end of Summer: it is gathered from May till. September , and it is god to placke off the flowce often, that it may not flowce to much. In the bigher parts of Fraunce it aroweth wilde in fuch plentie, that they ble almost no other fewell : it is in colde Countries in Winter fet in Sellers and hot houles, and is brought againe in the Spring into the Barden. But here you muft beware, that when you firft bying it out, you hepe it from the Barch Sunne, fetting it in the fladoolo, acquainting it by little and little with the ayze : fome ble to house it with

with Stralo and Houle dung, and fo leaucit in the Garden, Sage, in Latine Saluia, and like in other Languages, is an Dearbe Sage. common in cuery Carben : it is planted both of the fiele, and of the flip,in March, in any kinde of ground, it maketh no matter where : the Gardners ble to lay bucking aftes about it, where Mints. by it profpereth the better. Dert to Sage, is Mint, in Latine Menta,in Dutch Myntz,in Italian and French, after the Latine, in Spanith Yerua buena : it is planted and orderd in all things as Sage is : it profvereth beth in dry and wet grounds, and gre W. eth well by waters. If vou lacke ficocs, vou may take the feets of the wilde Bint, and let them with the tops downward, where, by they thall leave their rankneffe; and being once folume or fet. Pimpernel aroweth suery være. Pimpernell, in Latine Pimpinella, is bico both in the Bitchin, and in Whilicke : and being once fowne, arche eth cuerp pare, both in funnie places and in thadowy ; it grows eth in molt places wilde. Hylope, in Latine Hillopus, and fo cals Hylop. led in molt Tonques in Curope : a common Bearbe, knowne to euerv Oardener : it befireth , though no funny ground, pet and and rich ground, it is planted both of the fiede and of the fippe : when it hath once taken rote, it eareth not for the Charuncele of winter. Sauorie, in Latine Saturcia, 02, as Columella faith, Cunila, Saucrie. in Italian Coniella, Sauoreggia, Thymbre, in French, Sauoreic, in Dutch Kuuelzwibelhilop, groweth in barraine places, and is fet and fowed as the plants before. Thenert is that which come Bafyll. moniv is called bafyll, in Latine Ocymum, in French, Italian, and Dutch, Balilica : an hearbe that is bled to be let in the mit E of knots, and in windowes, for the creellent fauour that it hath: it is allo good for the pot: it is folled in March & Aprill, and belight teth in funny ground, von muft put two foos fill together, Balill is beft watred at none, whereas all other hearbes are to be was fred in the mouning and in the evening, it may be removed in Day. Theophrastus fauth, that it profpereth beff, fuhen it is Maricrom folned with curfes, Marierum, in Latine Amaracus, and Maiorana, is allo in like fort bled : the Dutch and the Italians call it after the Latine, the Spaniards Amoredux, the French Mariolaiene and Thyn, in Orake of Diolcorides & Paulus Egineia oun monor: this allo for the pleasant fauour it hath is let in pots and in Gar, Dens : it is folved in Marchthair or foure fads together, and halfe

a fote alunder, in Day when it groweth to fome height as 13a. fpll, it is remoned. Time, nere of kindged to thele, in French, Time. Italian, and Dutch like the Latine, in Spanilh Tomillo, deligh, teth in ftony, light, and funnie around : it fyzingeth both of the fied and of the flippe, and allo of the flowie, as Theophrastus faith, These this tender and delicate Bearbs, are to be fowed with great hede, either in earthen pots, oz in Garden beds. Bitherto have I deferibed unto you fuch Bearbs as ferue for the Bitchin : and because the later fort are also efficiented for the fauours. I will goe forward with the description of the reft that are let in Gars dens for the pleasure of them, and for the fauour, doe garnily the faid Gardens, and ferue alfo for other purpoles. Df Kolemarie I wake before, I will now proceede with these that grow before anp fiete. Lauender, called in Latine Lauanda, of Lauendula, that Lauender. aroweth in bozders about the beds, and kepeth the Latine name in other tongues, both grow in wilde places and ftonie : it is let of the flips, and remoued : it groweth to Spike in June, and in July is gathered and tyed in bundles for the fauour, the flowre is Diftilled for finet waters. Flowre-gentle, in Latine Amaranthus, Flowre. though it haueno fauour at all : yet hath it a delightfull beautie gende. to the eye : the Frenchmen, for the fairenelle of the colours, er, celling both Crimfon and Durple in graine, doe call it Palleuclleurs, the Italians Fiorueluto, because it contendeth in colour spith Crimfon in graine : it loueth to be often gathered and pluce ked, whereby it springeth the better : the flowres after they be bead, with a little water come againe to their colour : it is called : Amaranthus, besaule it dveth not.

THRA. Dere followeth Lauender-cotten ...

MARIVS. This Lauender-cotten : some call it Santonia, Lauenderand semale Southernewood, in Dutch it is called Cypressen, in cotten. French Cyprez : it groweth commonly in Gardens, springing suery piere. Myttell, in Latine Mytrus, in Italian Mytto, in Spaz Myttell. nish Arabian, in French Meurte, in Dutch Welscheidelber, the leanes are not much builke the leanes of the Dline trie, something smaller, with flender branches, and leanes growing in 02der one by another, as you sie, with blacke berries, and leafed like the Pomegranate. It groweth alwaies griene : it is set and sowed both of the side and flippe, and the flocke : but you must fill

63

Ifill raile bp the earth about it : till it be throughly roted. Some fow the berries being a little beaten, and couered in Furrowes of earth : it delighteth in continuall widding : to groweth it to a handlome height, mixte to thadow Pearbs : it loueit to bie watred with the Arine of men, or of there. This onely is to be wondred at, that of the liquour thereof alone, may be made all forts of Wine and Oyle: Cato teacheth to make Wine of the berries, being dryed, and put in water and heny fodden toges ther : if they be not dryed, they come to Oyle : how the Wine of them is made, Diofcorides fufficiently declareth. Plinie repors teth, that Caro made three forts of Pyrtels, white, blacke, and a third kind, that he calleth Coningale : it delighteth to grow by the Sea bankes, as Servius faith, it groweth at this day commons Ir in Italy, along by the Sea coafts.

Geliflowrs

THRA. Dh what flucte and godly Geliflowres are here I You may truely fay, that Salomon in all his Princely pompe, was never able to attaine to this beautie : fome of them glitter with a perfect Trimfon dye, fome with a deepe Purple, and fome with a patting beautifull Carnation: 3 maruaile theolo writers backo nothing of these in their time.

MARIVS. There are fome that fuppole it to be a binde sf Garden Bctonie, which the Bardners fetching out of the field. and thauffing Cloues into the rotes of them, with biligent plane ting, have brought to this excellency : others thinke it to be cale led Veronica of the Spanfards, who firft found it. Some thinke ft to be Oenanthe, because it flowseth with the Bine : it delighe teth in warme funnie ground : it is fowed feldome of fiede, but commonly fet of the flips, as 3 layd of Rolemarie. The Bards ners in the end of Summer, doe take the rotes and let them in Dannes, Bots, or Pailes, and when the frofts come, they carry them into their Sellers, and in fapze warme dapes being them abroad againe, and luffer them to be now or then watred with the rapine. It hath biene often fiene, that in fuch banits og fellers they have flowed all the Winter long, through warmenelle of the place : fome fet boughes about them, and cover them with itial and Houle-bung, to prefer e them against the cold: it often happeneth that one rate beareth one pere white foluces and red, and the third weckled or Carnation.

THR A.

THRASIVS. Loe, yonder are Roles growing in 1502ders, and madein a maze: doe they grow of the fiele, or of the fet :

64

MARIVS. Holes, called in Latine Rola, and in all other lans Roles. auages as in Latine, are dineral planted, fometime of the rotes. fometime of the braunches, being cut in fmall fets, and vlanted a fote alunder. Some weathe them in Garlands , and fo fet them to have them fmell the pleafanter. The ble of folving of them is beft : how beit, they will very well grow of the fave. though it be long ere they fpring, and therefore they let them. of fets a fote in length, it neither delighteth in richnoz mouff around, but is well contented to grow amongit rubbilh, and wine her walles. The places where they muß grow muft be diaged Disper then Come ground, and not fo diepe as the Unevard: the Hole is rather a Thome then a plant, and aroweth boon the very brambles : it commeth first out in a little budde and long tharpe beard, which after they be opened, it difcloseth it felfe and foreabeth abroad, with a vellow hairie tufke in the midf. Plinic maketh mention of funday forts of them : one fort he calleth Milefia having an Drient and fiery colour, another Alabandica, with white leaves, and Spermonia, the baleft fort of all: the Damatke and the Wilhite, are bled for fluct waters: they differ in roughnes, prickles, colour and funcil. There are that have but oncly fine leaues, and others with an hundred leaues, neither god in beauty not in finell: the roughnes of the rinde (as Plinie fayth) is a figue of the fauour. There are some little pale ones, called Carnation Muske and Prouincars, thele dee wonderfully grew where they once are Rofes. planted, and have a most excellent favour. Koles are bled to be fet in February, which is either done with the fied. or the fet planted in little Furrowes. The foors (as Paladius fapth) are not the little vellow things in the midit of the Role, but the graines that arow within the red rised Berry: the ripenes lubereaf is demed by the fwarthineffe and the fofineffe of the berrie : inhere they once are planted, they continue long, and after they die, they lend out new buds and fprings. If you lacke fets , and would of a fein have a great number, take the beaunches that begin as it were, to their buds, and cutting them in fundry fets, foure or fine fingers in length, fet them in god ground well dunged and Watered :

watered : and when they be of a pæres growth, take them by. and fet them a forte alunder, proine them and trimme them with often digging about them. Roles mult fill be cut, for the more you cut them, the thicker and the doubler they grow, other wife they will ware fingle and wilde, it will also doe them good fome time to burne them : being removed, it furingets bery fone and mell, being fet of fets foure fingers long and more, after the fete ting of the feauen Starres, and after remoued in a Walterip winde, and fet a fote alunder, and often digaed. The old Rolvars must have the earth losed about them in February, and the dead tipiques cut eff. and where they ware thinne, they mult be revay. red with the young fpringes. To have Roles of five fundry cos lours boon one rote, make when they begin to burgen, a fine hale beneath in the focke bnocr the iopni, a fill it with red colour made of 152afell fod in water, and thruft it in with a cloath, and in the like fort put into another part of the Rocke ar kne colour. and in an other vellow, and what other colours you will, & couer the holes wel with Dre doung & Lome.02 bery god earth. If you will have your Roles beare betimes, make a little trench of two hand bredths round about it, and polyze in hot water twife a Day, and thus doing, (as Democritus promifeth) you thall have Roles in January. Dou may preferue Roles before they oven.if making a flit in a Ricoe, you enclose the bloffome, and inhen you would have freth Roles, take them out of the Rabes: others put them in Barthen Dots close couered, and fet them abroad : the Roles continue alluaics freih that are dipt in the Dreams of Dyle. If you will have them at all times, you muft let them every moneth, and dung them, and fo (as Didymus faith) you thall have them continually. To caufe them, or any other flowers to grow Double, put two or three of the feedes in a Wheat Arain, and fo lay them in the ground. If you let Barlicke by your Roles, thep will be the findeter: the daver the ground is where they grow, the fineter they will be, as it appeareth by the featon of the perce for fome væres thev are finæter then others : the Kofe will be white, that is smoaked with Brunkone, when it beginneth to open: among fall Roles, those are molt to be commenced, that they call Carnations and Provincials. The Dyle of Roles was greatly had in effimation even in Homer his time, and at this day

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the Alnegar of Roles is greatly bled. Pert buto the Role in worthineffe, for his fauour and beautifull whiteneffe is the Hilly, Lillics. called in Italian Giglio, in Spanifh Tirio, in French Fleur de Lis, in Dutch Lilien. The Bzeckes hold opinion : that it fprang firft of lunos Bilke fprinchled bpon the ground. In februarie we begin to fet Lillies, og if they grew befoge, to lofe the earth about them with a rake, taking god bode that the pound tender fortes about the rote be not burt, not the little head, which tas ken from the olo rote, we fet for new Lillies. As the Rofes are, to are the Lillies, the finater, the drier the ground is inhere they grow : Lillies and Rofes being once fet, continue both bery long. There are red Lillies made lo by Art, for they take the falles and rotes of the Lillie, and hang them in the finoake till they inis ther, and when the knots begin to bncouer, they are laid in Darch in the Lies of red wine, till they be coloured, and then fet in the around, with the Lies powed about them, to will they come to be purple. Hislet in Bicke is 101, in Latine Viola Hislet black and Biolet purple, Iou uelay, xai iou nozovesy, in Italian it is called Viola porporia, in Spanith Violetta, in French Violets de Marts Violets. & Carefine, in Dutch Fiolen : thefe although they grow wilde a. bout enery Bedge and Wall : pet are they fet in Bardens with other flowers.

There are funday forts of Hiolets, both of kinde and colour, but the ordering of them is in a manner all one.

T H R A. I have now heard enough of kitchin hearbes and flowzes, therefore now, I pray you, let me heare you lay lomething of the third fort, that is Philicke hearbes, for me formeth I for a great fort of healing hearbs here in your Barden.

MARIVS. Pature hath appointed remedies in a readineffe It is but for all discases, but the craft and subtilitie of man, for gaine, hath the opinibenised Apothecaries thops, in which a mans life is to be fold and bought : where for a little byle, they fetch their medicines from Pierusalem, and out of Turkie, while in the meane time energy pore man bath the right remedies growing in his Garden : for if men would make their Gardens their Philitians, the Philitians craft would some dray. You know what your olde friend Cato saith, and what a deale of Philitike he fetched out of a pore Tolwort.

THRA.

65

THRA. I dee remember it, and that he faith he was wont both to helpe himfelfe, and his whole family with the hearbes of his Garden. But what hearbe is yonder with the long Kalke, and the long blacke indented leaves on the top? If I be not deceived it is Bearcfote, with whole rote we ble to heale our cattell when they be ficke.

Bearefoote or Setter-

MARIVS. It is fo indide, and is called in Latine Veratrum, there are two kindes of it, the blacke and the white : the Withite is that which the Dutchmen call Nyfwurts Wranckraut, the 15lacke thep call Kriftwurts, becaufe it flowzeth about Chaiffa malle: the Italians, the Spaniards, and the Frenchmen keve the Gickename. The rote of the Bearefot they thauft through the eare, or into the break of the beatt ; that is either difeated in his lungs, or hath the Qurren. Columella formeth to call it Conligillo : it groweth not in Gardens, creept it be folved, it contis nucth long, and loucth colde and moddie ground. There fands. not farre from that, another very noble hearbe in Bhiliche callen Angelica, it is supposed to be called in Orete uveers, and whether it be Myrrhis with the Latines oz no, 3 leave that to the Ibhilitie ans to difcuffe: it is called with the Italians, Spaniards, French, men, and Germanes Angelica. Dis cote, becaufe it is a foues raigneremedic againft the plague, and hath divers other god opes rations, it is cherified in our Gardens, and being once folued, it commeth by sucry viere : it aroweth allo wilde in the mountaine Countrey, and flowethin July and August. Dere is also Helicampana, in Latine Enula, in Italian Encla in Spanifh Enula campana, in French Aulne, in Dutry Alaut, this alfo is let in our Gardens for medicines fake, and we make much of it for the rot. it groweth wilde in the hilly Countries, and dev thaddowie places. In Summer the rote is taken out of the ground, and cut in finall preces, and fodgied : at this day it is called Enula campana: it hath a pellow flower, a leafe like Duilin, but white and hoarie at the. one fide. Momelus), though it grols in cuery place, pet this that pou fe here is Romane or Dontike. Wormewood, the Latines callit Cerephium o: Ablinthium Romanum the Datchmen. Romilchewermut, the Italians Allenfo, the Spaniards Enfanlos, the Frenchmen Aluine and Ablince, this kinde is let in our Cardens, and thought to be the beff. Savine which we have here alfa

Angelica.

Helicampana,

Worme-

Sauine.

allo in our Gardens, foz divers dileafes of Cattell, is called in Las tine Sabina, in Dutch Scuenboun, in Italian as in Latine, m Spanith likewife, in French Savinier, it hath leanes like Junis per og Cypres, alwayes græne, there are two kindes of it, one like the Tamariske, the other like Cypres : it is a buth rather fyreading in breadth, then growing in height : the Berries which he beareth, may be gathered in the end of Summer, or any other time.

THRA. But many times we lie Gardens to be deftroyed with wormes and bermine, what remedy have you for this ?

MARIVS. Df the faults of the ground, and the remedie thereof, as the amending of either to much meifture or drineffe : A loake in the beginning, touching Wlozmes, Flics, and other vermine that annoy the Gardens, which for the most part are thefe, Caterpillers, Smailes, Doles, Dice, Onats, and Antes. There are that fay, that if you mingle with your fiedes fote, of Againft the Juice of Bouleleke, og Singrein, the Caterpillers will not Caterpilmeddle with the hearbe that fpringeth of such fiede : and that they lers. will doe no harme to your Tres, if you fprinckle them with the water wherein the albes of Ulines bath benelaid : mozeouer the falkes of Darlicke made in bundels , and burnt in Dechards oz Bardens, beftroyeth the Caterpillers. They will not bied (as they fay) if you burne about the rotes of your hearbes of Tres, quicke Baimftone and Line : the fame they repost of Lie made of the Fig trie, Ants will not annoy your come or hearbs, if you cut compate it round with Chalke, or put into their hils, the affres of burnt Smailes, and if fome of them be taken & burnt, the reft will not come nere the lauour : if Alla foerida be laid in Dyle, and poins red byon their hills, it btterly deftroveth them, they wil not touch the tres not the hearbs, if you annoint the Kalkes with bitter Lu pines, or lime laid with ople. Dou muft thate off the Caterpillers in the morning, or late in the evening when they be numbed : alfo water wherein Dill hath biene fodden, caft about in the Dechard when it is colde, deftroveth them. It is written , that if you fet Chiches about your Garden, Caterpillers wil not bred, and if they be already bred, you muft firth the invce of Woomeinod, and caft among them. The dung of Bullocks burnt upon the coales, Deffropeth Gnats: the like allo doth brimftone: a fpunge wet with Gnate.

3.2

binegar

66

binegar and hanged by, draweth allo finarmes of Gnates buto it : allo the maw of a Shave new killed , not walhed nog made cleane, if it be laid in the place where Dothes, oz other fuch bers mine doe ble, and concreda little the byper part, you thall after fluo dayes finde all the novforme Termine crest into it: thus muft pou doc twile or thrife, till pou thinke you have ceftroged them all. Of killing and priving away Boles. Section the Oracke wais feth, that you muft take a fut, or any like fruit, and making it hollow within, fill it by with Chaffe, Bosen, and Bimftone, afters ward ftoppe the bent holes that the Dole bath in every place, that the imoake breake not out, onely leauing one open, where you hall lay the But, in fuch fort as it may receive the winde on the backe part, that may drive the Imoake into the Dines, there are allo traps to be made, for the deftroping of Doics : a frame is to be fet upon the new Billes, with a piece of wood to hollow and framed, that it may receive (as it were in a Sheath) an other piece of wod made in fathion like a Inife, to this is foyned an co ther little flicke that lieth in the hole , and is fatinco to a Catch without, that as some as the Mole toucheth the flicke within, the is taken prefently, as it were, with a payre of Sheares. Mile are taken, if pæ powze into a platter, the thickeft mother of Dple, and let in the houle a night, as many as come at it are taken: allo the rote of Bearefot mingled with Chale, Bread, flowre, or greale, killeth them. Tarte and bery tharpe Hinegar mingled with the inver of Benbane, and fprinkled bpon the Bearbes, kil. leth the Fleas, og little blacke wormes that be in them. Do kinds of bermine will annoy your Bearbes, if you take a good fort of Crefilies, and call them in an earthen beffel with water, fuffering them to worke abroad in the Sunne for the space of ten dayes, and after with their liquour fprinchle your Bearbes. But Thirpe you long in this ill-favoured Carten , if it pleafe vou wee will walke into the Dechard adjorning.

T HRA. With a very god will, although the godly fayze colour and finit fauours of these Bearbes and flowzes, belide the fayze hedges inclosing it, as it were, with a gozgeous graine tapefrie, make me that 3 could abide here ever.

Of Orchards. MAR 1 vs. Both the Garden and the Dachard are inclosed with scueral hedges and ditches, whereby they are defended from hurtfull

Myle.

Garden Fleas.

Moles.

murtfull beafts and buruly folks (as I told you at the first) when T began to speake of the enclosing of Gardens and Dechards.

67

THRA. Cucry thing liketh me valling well: God Lord inhat a pleafant ground, what a Paradife is this ? methinkes 3 fie the Dechards of Alcinous, the Tres are fet Checkerwife, and focatred, as loke which way you will, they lie levell : Bing Cyrus himfelfe neuer had better. If Lylander had euer fiene this Dichard, he would have woudted a great deale more, then he bid at Cyrus his Dichard.

MARIVS. Such gozgeous Barbens and Dichards as Bins ces have. I neither befire, noz meane to counterfeit : but bfing the diligence of a poze Countrey Bardner, I build (as they fay) my walls according to my wealth. I framed the order , and fet the molt part of these Tras with mine ownehands, following herein, the Fathers of the old time, who delighted themfelucs chiefly with this kinde of Philolophie. So then (as I thinke) the Tries and Woods to be the greateft commoditie given to men : for befides the house pleasure that they minister buto bs. the aras cious Lozo, that is the giver of all god things, hath allo given bs a number of other godly commodities by them, which at the firft ferued men for fode, covering, and clothing : which commodities, the very Ethnicks had in effimation. But unto bs that know God, by whom we have received our preheminence aboue all os ther creatures, which benefit we ought with thankes to acknows ledge, the boly Scripture both teach a moze higher and mofficall confideration : for before that gracious Lord had framed man, willing to provide him of fode and apparell, he cauled all kinde of pleafant Tries bearing fruit to fpring out of the carth , that they might ferue for the inftenance of man : and in the midf he planted the Tre of life : and thereby, the Tre of knowledge of god and cuill : to the end that Adam might have an affured figne of his dutie and reverence folmards God, out of which the Lozd (as in a Temple did fpeake buto Adam) and Adam himfelfe, if he had continued in his innocencie after his refection of the Trie of life, had with his posteritie preached God, and alwaies biene thankfull buto him, for his authoritie given buto him ouer all other creatures , as the Propheticall Plalmilt fing, sth. This that through the bountifull liberalitie of God was i . ' . ' . . . 33 aluen

given bs to lo god an end, the bugodly and wicked posteritie fur, ned to Idolatrie, confectating both Tress and Groves, to the I. dols of the Deathen.

THRA. CClhat : me thinks you begin to play the Pecacher with me.

MARIVS. Durely, there is no better a place to preach in then here, to acknowledge the Creator in his creatures, and by these visible workers : to behold the Almightie and everlating power, bleffconeffe, bountifulneffe, and Godhead, of the incomprehensible workman, and alwaies to spoake and preach of them : but 3 will fay more hereafter. The planting of Trass doth out of all doubt (as 3 said) bring but do so both profit and pleasures : and therefore this part of husbandry, much not be neglected, for Columella accounts it one of the chiefest points of husbandry, which the Poet sciences to agree buto.

Of tyllage all this while, and of the flarres,

We here have talked.

And Bacchus now of thee I meane to fing,&c.

THRA. I pray you then declare buto me, the order of plants - ing and preferuing of Trees.

MARIVS. Let us first fit dolune under the factow of this faire Cline, that yieldeth both pleasant Wine, and comfostable. haddow.

THR A. Agræd.

MARIVS. The fosts of Tress are divers and manifold : fome grow wilde, fome come of the fade, fome of the rote, as the felfe fame Poet faith.

Some forts there are, that of the feede are fowne.

And fome that fet of rootes, to feedes are growne.

Some doe grow and spring of themselues : a number of others againe are to be solve. These that grow wilde without the labour of man, doe beare their sudes each one according to his kinde : but those that are set and dreft, doe yield greater encrease. There are dimers againe that are alwairs griene, and doe neuer loss their lease, which are (as Constantine reported)) these, the Date, the Drenge, the Lemon, the Cytron, the Bay, the Dline, the Cypress, the Pine, the Pollie, the Bore, Syrtill, Seder, and Juniper. As for strange Tries, and those that will groweno where

where but at home, we will not meddle withall : we will there. fore begin firft with those that pield bs fullenance, and beare fruit. and those are divided into thice forts : for either of the Sets they come to be Tres as the Dlive is, or elfe furubs as the wilde Date, oz neither Tro noz bubas the Mine.

THRA. F defire to heare your ovinion of enery fort, for F thinke it no fmall fkill to plant fuch faire Bardens, Dechards, and Minepards. Methinkes pou haue bled a fvonderfull awd 020 per that amonale vour Mines, vou haucentermedled Dlive tres, Figge trees. Almonos, and Aprecots, and that you have fevered vour Dichard from vour Barden, and vour Minepard from them both, with faire bedges and bitches.

MARIVS. It was needefull fo to doe, leaft my folkes labous ring in some of them thould come into the reft, contrarie to my pleasure. First, if you will. I will speake of those that being bs fruit, and then of the wilde, and the order of fetting and planting of Winds. First (as Columella faith) that ground that feructh for an Dechard, will ferue for a Minepard, as you fe it doth here: and if the ground be hilly, rugged, and bneuen, it is more mete for a Minevard then for an Dechard. If therefore you will make an How to Dichard, vou muft chole fuch a ground as is mete foiit : a rich make an ground, leuch, and lying bpon the Sunne, which when you have Orchard. found, you must well enclose it : as I taught you before in the enclosure of Gardens, that it may lie out of danger of Cattell and knaues : for although that the trampling, and bunging of Cats tell , is not onprofitable to the Tres, pet if they be either brus fed or broken whiles they be round, they will some come to nought. When you meane to dreffe your Dechard place thus fenced, you Thall make your furrolves a piere before you plant them. to thall they be well feafoned with the Sunne and the raine: and whatfoener you plant, thall the coner take. But if you will nedes plant the fame yere, that you make your furrowes, let the furrowes be made at least two moneths before : after fil then: full of Araw, and letit on fire. The broader and wider that you make your furrowes, the fairer and more fcuitfull will your Trees be, and the fruit the better. Dour furrowes muft be made like an oven, of furnace, wider at the bottome then above, that the rots may fuzead the better, and the colde in Winter, and the heate in 3 4 Summer.

Summer, may the better bee kept from it, and alle in ficepe grounds, the earth thall not fo cafely be walked away. In fetting of your fruit trees a Clines , you mult place them in order, ewther Checkerwife, oz Petluife: which netfull ozder of feiting, is not onely profitable, by receiping the avre, but allo bery beautifull to the ove : when as which was focuer you loke, you thall fie them frand in ranke, and which allo is to god purpole, for the Tras. shall equally receive their morffure from the ground.

THRA. The the Careners in every viace oblerue this our ber, fetting their Tries in fuch proportion, as which way focuer you loke, your eve fall not beelet, but fall fo the Sres fand ftraight in order.

MARIVS. I haue bled two fortes of this catred order.one wherein my Tres frand foure fquare like the Chequer oz. Chellebord: the other not in lauare as the firft but Lofing-wife o: Diamond-wife, like the glaffe fundomes o: Dets. Dou mult frame it according to the nature of the trees, left the lower fort be drohunebof the higher. Dou must allo fet them a good. Diffance alunder, that their branches may fpread at pleasure, for if you fet them to thicke, you thall be able to fow nothing befwirt them, and they will be the leffe fruitfull. Cherefore Palia-Dropping dius would have the fpace betwirt them, thirtie foste at the leaft : there is more most in the generall dilpoling of them, entermed, ling the greater with the leffer, fo as the great ones doe not annoy their underlings, either with their fadolo or dropping, for that they grow not equal to them in frength or bigneffe. Pounce granates and gevilles muft be folved nærer toacther, as nine fote alunder, Apples nærer then they, and Pearce nærer then them both : but of them there are fundin forts Aimonds and fig Friendilip tras muft allo be fet nærer. And becaufe there is a naturall friendfhip and love betwirt certaine Dross, you muft fet them the never together, as the Cline ? the Dive, the Boinegranate and the Brotell. On the other fibe, vou muft fet farre alunder fuchas have mutuall hatred among them, as the Wine with the filbert e the Bay. There are fome of them, that defice to fland. two and two together, as the Chelinut: the droppings allo bo great hurt of all forts, but fpecially the droppings of Dakes, Dinetres, a Daft-Shadowes holmes. Dorcouer, the thadolucs of divers of them are burtfull ...

of irces.

amenaft Trees.

of Trees.

25

as of the Malnut træ, whole that down is bumbole forme for men, and the Pine træ that killeth young fprings: yet they both refit the winde, and therefore are belt to be fet in the outer fides of the Dechards, as hereafter thall be faid. Of the place and the order, perhaps you thinke I have fayd enough, and whe that I thould proceed to the order of planting and fetting.

THRA. What time is the belt for planting and fetting of Erics :

MARTYS. The chiefelt time of planting (as Florentine Time of fagth) is the end of Sommer, for then is nature molt occupied planting, about the rot, as in the fpring about the opper parts: and therefore grafting is metell in the fpring, and fetting in the end of Sommer: for the plants are watred all the Winter, & therefore it is belt fetting or planting, from the fetting of the feauen flars, ontill the twelfth of December. In the Spring time, you may Timefor fet those that you forgat before: at what feafon foener it graffing. be, loke that you fet them in the alternone, in a farze wefterly winde, and in the wate of the Home. Plinic faith, that this note is of great importance for the encreale of the Tree, and godneffe of the fruit. If the Tree be planted in the encreale of the Spone, The obit groweth to be very great : but if it bein the waine, it will be feruation fmaller, yet a great beale more lafting.

THRA. But are there more wayes then one of Planting Moone, and fetting ?

MAALVS. A great fost: we plant cyther by Craffing; lef: The kinds ting of the hernell, of the frome, lefting the rotes, frockes, of lips, of plangrafting betwirt the Barke and the Trie: fome are planted ing, and in fome of thele losts, others in all. In Babilon (as they fay) graffing one'p the leafe let comes to be a trie: first y will speake of Graffing, and then of the reft. There are that appoint but three kin's Three of Graffing, betwirt the barke and the wode, in the forke, and kindes of implastring, or inoculation. The first fort they call Graffing, the Graffing fecond imbranching, the third inoculation, or imbudding. Such What ground, are best graffed betwirt the barke and the wode, as the best to be figge, the Cherie, and the Dlive: those that have thin rindes, graffed beand content themselues with less moisture, as if the Sappe lea, wire the barke and the least, as the Drenge lea, wire the barke and the least, as the Drenge lea, wire the barke and the least, as the Drenge least wire the barke and the least, as the Drenge least the wood.

træ,

69

What trees agree beft together.

To haue

A Peach with an Almond in it.

fre, the Apple tre, the Wine, and divers others, in thefe it is beff. to open the focke, and graffe in the mode. Some Tres are allo beft Graffed byon other fome, the figge that profpereth beft topon the Dulbery Aocks, and the Plains tre: the Dulbery bnon the Cheffinit, and the Breche, the Apple, the Deare, the Elme, and the white Boplar, wherein if you graffe, you wall have your Bulbertes white : byon the fame focke are graffed the Beare. the Duince, the Bedler, and the Seruille : the Beare boon the Bomegranate, the Quince, the Bulberie, and the Almon. If pour red Peares Braffe vour Beare byon a Bulbery, you thall have red Bearcs: & Apples. the Apple is Graffed byon all Peace Bockes, and Crab fets, Willow, and Poplar : being Graffed bpon the Duince, it bringe eth forth the fruit which the Greekes call Melimella : it is alfa Graffed bpon the Plomtrie, but being Graffed bpon the Plaine tre, it bringeth forth red Apples. The Dedlar being Graffen buon the Thome, the Graffe groweth to great bigneffe, but the flocke continues fmall : bpon the Pine-tree, it bringeth a fivet fruit, but not lafting. The Peach graffed in the Thome. or the Beeche, groweth to be very faire, and great : the Almond and the Deach being topned together, and Graffed in the Blume tre. will beare a Beach with an Almond in theftone. The file bert will onely be graffed in the Milding, not agricing with any other. The Pomegranate delighteth in divers flockes, as in the Millow, the Bay, the Ache, the Damson , the Plome, and the Almond , boon all which hee prospereth well. The Damson groweth very well byon any kinde of wilde Peare, Duince and Apple : the Cheffnut liketh well the Walnut, and the Bech. The Cherrie refuleth not the companie of the Deach, not the Turpentine.noz they his : the Quince will well be graffed byon the Barberie: the Dirtle byon the Sallow : the Blom byon the Damfon: the Almond opon the Filbert : the Citron, becaufe of his tender Tra, and thinnerinde, will fcarcely beare any other . graffe, and therefore contents himfelfe with his owne braunch. The Une that is graffed bpon the Cherie tree (Florentinus promileth) will beare Grapes , and graffed bpon the Dline, will bring forth a fruit that bearing the name of both his parents, is called Elzostaphilos. In fine, all young Tres that have fav in the barke may be Graffed; if it be greater, it is belt Graffing nere

Oliue grape,

the

the rote, where both the barke and the woo, by the reason of the næreneffe of the ground are full of sappe. Be then that will graft either in the flocke, oz betwirt the flocke and the rinde, let him gather his Graffts from a fruitfull tender trie, and full of ioputs, and out of the new fpring, except he meane to Graffe an old trie, The choile when as, the fluctier Graffes be, the better they are, other wife of Grafthe laft flotes of fuch tres as have lately borne will be the beft. fing. Pou muft gather them on that fide the tre that lyeth byon the Both : others like better the Caft fide then the thadowy. Virgill forbiodeth those that groweth on the top, thinking them bet. ter that growes out of the fibe . To be thoat, your Baffes mult be full of buds, lately growne out, fmothe, the rinde fmothe god, and readie to grow: they mult be of the laft pares growth, which is knowne by the knots of iopnts, that beclare every pieres The knots growth. Belide, Graffes of all tres are not to be gathered alike : For Tlines and Figge trees are dryeft in the middle parts, and take beft of the top, and therefore from thence you mult gather your Graffes. Dlines are fulleft of fappe in the midit, and the outer parts dypeft. Those belt agrie together, whole rindes are nerelt of nature, and doe blollome, and beare both about a time. Pou muft gather your Braffes in the want of the Dene, tenne Dayes befoze you Gaffe them. Conffantine aboeth this reafon, That it is neede the Graffe boe a little wither, that he may the better be received of the focke. Bou muft appoynt your Graffing The time time in the Spring, from Darch, when as the buds doebegin to for Grafburgen, but not come out (although you may Graffe the Peace fing. inhen his leaves be out) ontill Day : for Graffing in raine is profitable, but not foz imbzanching. The Dlive, whole fpzings doe longel bud, and have much lappe buder the barke, the abundance whereof doth hurt the Braffe, muft be Braffed (as Florentine fayth) from Day, till June. Columella would have the Dline Braffed from the twelfth of Barch, till the firth, of the firt of A. The manpaill, and the time of Graffing to be the Mone encreating, in the ner of afternone, when there bloweth no Southwinde. When you Graffing, haue found a good Graffe, take your knife (being very tharpe) and pare it about a thic fingers from the toynt downeward, fo much as thall be mete to be fet in the focke : that part that is buder the toput (not perifying the pith) you must cut with your buile, 23

70

as if you thould make a pen, to as the wod with the wod, and the barke with the barke, may joyne together, as just as may here With being done, if you meane to graffe in the flock, you muft firft Salve it fmoth, and then cleave it in the midit with a farve knife, about their fingers : and to the end you may handfomely put in your Oraffe, you must have a little lychas of wood or From. (Plinie thinks it better of bone) which wedge (when you will graffe betweine the rinde and the focke muft be made flatte on the one fide, and round on the other, and the Craffe muft be pas red allo flat on that fide that mult fand nert the woo, taking als waies god hede, that the pith be not perifhed : the other part mult onely have the rinde pulled off, which after you mult fet in the cleft. or betwirt the barke, till you fie all parts agree together. Some doe cut the pornt of their Graffe thicklouare, fo as ting fides are bare, and the other coucred with his barke : and in that fort they ble to Graffe in a ftocke one againft another : but it is thought beft to Graffe no moze but one. Wilhen vou haue thus fet in pour Graffe in the flocke, plucke out the locdae : but here is a great carefulneffe, and hede to be bled : and therefore god Grafters, thinke it beft to hold the Graffe euen with both hands. left in the binding and pulling out of the wedge, the Baste be hurt, oz fand bneuen. Foz auopding of which, fome ble foz to binde the focke about, and after to put the wedge, the bands hes ing it from opening to wide. The harder they be fet in, the longer will they be ere they beare, but will indure the better : you muft take bede therefore, that the cleft be not to flacke nor to Traight. Wihen vou haue thus Graffed, binde the Bocke with a finig, and couce it with loame, well tempzed with chaffe, two fingers thicknedle, and (putting mole round about it) tycit by to, that there come no raine at it, nozbe hurt with the Sunne oz the winde. This is the order both in the old time, and at this day bled : though in Columellas time (as it apeareth) they were not inont to Staffe, but onely betwirt the barke and the fund : for the old people (as Plinic writeth) durftnot as pet meddle with cleaning of the focke : at length they prefumed to make holes. and Graffe in the rith, and fo at laft wared bold to cleane the . focke. Cato would have the flocke courred with clay and chalke, mingled with land and Ore-dung, and fo made in moster. Somer time

time they Shaffe with the top of the Braft downelvard, and they doe it to make a little Træ spread in breadth. It is best Graffing next the ground, if the knots and the Cocke will suffer: and Plinic mould have the Graffe grow south not aboue fire singers. If you will Graffe a little Træ, cut it nære the ground, so as it be a swill longest kæpe their sappe, if they be thrust into the rote of a graffes. Rape : and that they will be preferued, if they lye betwirt two little guts, running out of some Kiner or Fill pond, and be well couered with earth.

T H R A. I doe now greatly defire to heave you fay fome. Of Implathing of Implattering, of Inoculation, that is, in Braffing with flering and the bud of the leafe, which you call in Brake empulsion mov, which inoculation. hinde of Braffing, I for those that are given to new fallions des light much in.

MARIVS. This is no new manner of Braffing, but Wie finde that it was bled both of the Latines, and of the Bickes, When taking off a leafe or little bud, with fome part of the rinde with him, we Graffe it into another braunch, from which we have taken as much barke. This order (Columella faith) the huls bands in his daics were wont to call Implattring. 02 Inoculation: and befoze Columellas daies, Theophraftus in his 18 oke De caufis Plantarum, both their the reafon of Inoculation, Plinic both fay it was first learned of Dawcs, hiding of firds in caues and holes of Tres. Thiskinde of Graffing, as Columella doth write, and our Baroners themfelues confelle, is beit to be bled in Sums mer, about the twelfth of June: pet Didymus faith, he hath Gzaf. fed in this maner, and hath had god encrease with it in the spring time. And fith it is the daintieft kinde of Braffing, it is not to be bled in all Eres, but onely in fuch as have a ftrong, a mout, and a lappy rinde, as the Dline, the Weach and the Figge, which are full of milke, and haus a big barke. Df that Tre that you means to Braffe, chole the poungest and the fairest branches you can, and in them take the bud that is likelieft to grow, and marke it round about tivo inches fquare, foas the bud ftand even in the miolt, and then with a harre knife cut it round about, and flaw of therinde, taking god here you hurt not the bud, and take out the pace. Afterwards, goe to the Erie that you meane to Graffe on, and

and chose likewife the fairest braunch, and pare away the rine a lit' e fpace, and forme in your budde to full, as the rindes may as arie together fo clofe,as neither water noz winde may enter in. Bou muft looke that you hurt not the TAwd, and that the rindes be of one thickeneffe. When you have this done, binge it by fa as you hurt not the bud : Then clay it ouer all, leaving libertie enough for the bud. Eut off all the foring that growes about it. that there be nothing left to draw away the Sappe, but that it map onely ferue the Graffe : After one and timentic Daves, bn. loofe it, and take off your couering, and you thall fe your bud ins corporated in the branch of a ftrange trie. Columella sucaketh of an other fort of Graffing, to bors a hole in a Tre with an Aus aur, either to the pithe, of the bttermoff rinde, going fomething floavefuile downelward, and getting out all the chips cleane, take a Mine.o: an arme of the belt Mine.not cut from his olde mother. and varing away the ouer rinde, thruft it fall into the hole, being all moif and full of Sappe, leauing a bud or two onely byon it : afterward, floppe the hole well with Boffe and Tlay, and commit it to the earth. In this fort may you Graffe Tlines byon Chines. to thall the branch line, being both nourithed by his olde mother, and his new Father. Iwo pare after, you thall cut off the nely graffed branch, and the focke wherein you graffed, you shall fame off a little aboue the bosing, fo thail the graffe become the chiefeft part of the plant. The like do our Countrymen, taking a branch of a Bech a fote thicke : and when they have cut it, and bozed it, they let in it the beanches of the beft Peare or Apple that they can get. letting the fame in a bery wet ground in Barch, and in the fame Moneth the viere after taking by the Bech, they cut it a funder with a faw betwirt the holes and the branches : and co uery piece of focke with his branch, they fet in very rich & fruits full ground. There are fome that bag of another kind of graffing. not much bulike to the former, whereof not with flanding, African in Conftantine maketh mention, as tried in a Deach. They will a man to take the branch of a Willow as big as your arme, and two Cubits in length, or more : this they would have you to bore through the mids, and after flipping off the braunches of a Beach manner of as he frands, leaving onely the top bntouched, they mould have Graffing. you to make the Deach palle through the Willow batte , and

Wimble Graffing.

Another

that

72

that bone, to bow the Willow like a 15owe, letting both his ends into the earth, and to to binde the hole by with molle, moza fer and bands. The pars after, when as the head of the Beach. hath formed himfelfe with the pith of the Willow, that both the hobics are become one. Dou Mall cut the Tre beneath, and res mone it, and raile by the earth, fo as you couer the Willow boln inith the top of the Deach; and this thall being you Deaches with out ftones. This kinde of Graffing muft be done in mopft plas ces, and the Willlowes mult be holpen with often watrings, that the nature of the Trie may be of force. The kindes and manners Propagatiof propagation, are declared by Plinic, inho telleth of the kindes : on, and his the first, wherein a branch of the Tros being bolwed downe, and kindnese. huried in a little furrow, and after two peres cut off, and the plant in the third være remoned : which if you intend to carry any far Diffance off, it is beft for vou to burie your branches in Baskets. or earthen beffels, in which you may aptipeft carry them. And another more pelicater way he speaketh of, which is to get the rote out of the very Tre, laying the branches in Baskets of earth, and by that meanes, obtaining rotes betwirt the bery fruit and the toys, (for by this meanes the rote is fetched from the bery top, fo farre they prefume) and from thence fetch them; bling it as before : in which fort you may also deale with Bofer marie and Sauine. Columella theweth a way, how flippes of all manner of Tres may be Graffed in what Tres you lift.

THRA. And some are also set of the flippes, or flinings : my felfe have plucked a branch from a Huberic Trke, and bruifing the end a little with a Hallet, have set it in the ground, and it hath growne to be a saire Trke. The like hath bkne tryed (as they say) in Apples and Peares.

MARIVS. Poulay well, fez Pature hath theived vo, that they young fiences, plucked from the cortes of the tries will grow the youngest are best to be planted, and fo to be pulled by as they may bying with them some part of their mothers bodie. In this fost you may plant Pomegranates, Filberts, Apples, Scruilles, Pedlars, Plomes, Figges, but specially times, and sometimes Cherries, and Hystilles. Of the frocke and the branches are also planted the Almond, the Peare, the Pulberie, the Scruge, the Dline, the Quince, the Jule, and the Turkish Piome : which

which the oftner you remove them the better they prove. Plinie fayth, the branches cut from the Træ, were at the first onely blev for Pedges, Elder, Duinches, and Briers medled together, als terwards for ble, as the Poplar, the Alder, and the Unildu, at this day wee fet them where we best like. Diede must be taken, that the flockes, or the fets be of a god kinde, not croked, knottie, nor forked, nor flenderer then that a man may well gripe with his hand, nor leffe thema fore in length.

THRA. It remaineth now, that you speake of the setting of the fruit or kernell.

MARIVS. Pature (as Plinic fayth) hath taught be to fet the Bernell, by the liedes deuoured of Birds, and molfened with the warmth of their enthrales, and after boided in the boughes and rifes of Tres : whereby we finde many times a Plains Trie growing out of a Baye, a Bay out of a Cherry, and a Therry out of a Millow. Bany Tres are let of the fruit ker. nell.oz ftone, which grow parely of themfelues, by reafon of the falling of the fruit : as Theanuts, Balelnuts, and Walenuts. Columella lapth, they are the fruitfuller Tres that fusing of their fruite, then those that are fet of the flocke, or the branch. Some belight to be fet in Tres, and not in the ground : when they have no loyle of their olone, they live in a Aranger. Df the fruit oz bernell, are planted puts, Almonds, Biffaces, Cheffe nuts, Damlons, Plums, Pincapples, Dates, Cypreffe, Bayes, Apples, Beares, Maples, Firtres, Cherries, Beaches, and Abis cocks : but fet oz planted, they proue to be the kindlier. Some of thele doe grow in Graffing and other waies : for erperience teas cheth, that the But and the Terebinth are Graffed; and Demageron witneffeth as much : neither are all fruits, kernels, and ftones fet in like fost, as bereafter thall be fiene. Some are lavo in water before, others not: fome lye three dapes in hony and water, and at the fall of the leafe are buried in the ground till Barch : and then fet Buts are onely layd in movit dung a dap before, and of fome in water and hony onely a night, left the tharpnelle of the hony deltroy the fprout. Some are fet with their toppes flanding upward, as the Chefinut : others downes ivard, as the Almond, though this is not greatly to be regard ned, fithe wie fie the fruite that falles from the Erie, og is let

The keeping of plants.

of the ordering of Orchards.

73

let fall by Birdes, doth profper beft of any other.

THRA. Thane a wonderfull delight in the Ampe Gardens of these Countries. I way von tell me how they be ordered.

MARIVS. The erdering of an Jupe Garden may not be Of Impe palled oner, wherein as in a parke, the young plants are nouris Gardens. thed. And because the purse sometimes ought to be kinder, and tenderer then the Mother, a mote ground muit be cholen for the purpole : that is, a ground drie, fat, and well laboured with the Battoche, wherein the Branger may be well cherifhed, and berp like onto the foile, into which you means to remoue them. The kernels, oz fones, muft net be altogether naked, but little coues rep with fome part of the fruit, fo thall they afterward endure the longer. They muft be fet a fote, og there abouts a funder : After two vieres they mult be removed : and becaule their Rotes doe runne very deve into the ground, they must be fomelubat bent, or turned in, to the end they may foread abroad, and not runne doluneward. Abone all things, pou muft fie it be fre from fones and rubbilly, well fenced againft Poultrie, and not full of chinkes o: clefts, that the Sunne burne not the tender rotes : they muft be let a fote and a halfe a funder, that they burt not one the other with their niere growing. Among other euils, they will be full of Works, and therefore muft be well raked and weded : belide, growing ranke, they mult be trimmed and propned. Cato would have them concred over with Lattufes byon forkes, to let in the Sunne, and to kepe out the colde: Thus are the Bernels of Peares, Dine-apples, Puts, Oppzelle, and fuch others cherified, They muft be gently watred for the first their dayes, at the going downe of the Sume, that they equally receiving the water, may open the foner. Zizipha, oz Surkey Blumbs, Buttes, Walls nuts, and Cheffnuts, Baves, Cheries, Wilfaces, Apples, Dates, Peaces, Baples, Firres, Blumbs, and divers others, are let of the flone, or kernels. In removing of them, have speciall regard, that they be fet in the like foile, or in better, not from hot and forward grounds, into colde and backward, nor contrarie from these to the other. Don must make your furrowes fo long before, if you can, that they be ouer-growne with goo moulo. Mago would have them made a perc before, that they may be well fealoned with the Sunne, and the weather : Daif you canant

not fo, you must kindle fires in the middelt of them two moneths afore, and not to fet them, but after a thowse. The depth of their fetting muft be in fliffe clay or hard ground, the Cubites : and for Biumb Tries a hantfull more. The furrow muft be made Furnace like, Araight aboue, and broade in the bottome : and in blacke mould, the Cubites and a hand broade, being forare concred, neuer deper than thus fote and a halfe not broader then two fate broade, not never of ieffe deuth, then a fate and a halfe. which in a wet ground will draw nere the water. Such as des light in the depth of the ground, are to be let the disper, as the Sile, and the Olive : thele and fuch like, muft be fet foure fote Dape, the others it lufficeth if thep fand their fote tape. Some ble to let bnoer their Rotes round little fones, both to containe, and conuap away the water : others lay grauell buderneath them. The greater Tres are to be fet tolvard the Both and the Weft, the finaller toward the South and the Caft. Some will have no Tra remoued buder two vare olde, or aboue thic: and others when they be of a parcs grouth. Cato realiteth Virgils authoritie, that it is to areat purpole to marke the fanoing of the Tree, as it grewe at the first, and to place it towards the fame quarters of the beauen againe. Others obferue the cons tratic in the Aine, and the Figge Tre, being of opinion that the leaves thail thereby be the thicker, and better defend the. fruit, anonot fo fone fall : befite, the Figge Tre will be the better to be climbed boon. Bezeouer, you muft beware that by long tarping, the Rootes be not withered, not the winde in the Posth when vie remoue them , lubereby many times they die, the hulband not knowing the caule. Cato condemneth beterip all manner of luinces or flormes, in the removing of Eries, and thereforeit is to great goed purpele to take them up with the earth about them, and to court the Kootes with a Turffe, and, for this caufe Caro would have them to be carried in Balkets file led with earth by to the toppe : the Tre mult fo be fet, as it map ftand in the middeft of the Trench, and fo great hede muft be taken of the Rootes, that they may not be broken, no2 manaled.

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2.

THRA. Let ba now goe fogward with every Tre in hisogder.

MARIVS.

of the ordering of Orchards.

74

MARIVS. Among all Tres and Blants, the Alite by good The Vine. right chalenge th the Boueraignetie, fieing there is no plant bled in hufbandzie moze fruitfull and moze commodious then it , not alonely for the beautifulneffe, and amolineffe of the fruit, but als fo for the ealinesse he bath in growing, whereby he retulethnat almost any kinde of Countrey in the windle world, ercept fuch as are to extreamely fcouched with the burning heate of the Sunne. or elfe to ertreamely frozen with the behement colde, profoering alfo as well in the plaine and champion Countrey. as it both be on the hilly and Dountaine Countrep : Likewife as well in the fiffe and faft ground, as in the foft and mellow around : And cf. tentimes in the Loamie and leane ground as in the fat and fogs aie, and in the due, as in the moift and micie, yea, and in many places in the very Rockes it groweth molt aboundantly and melt fruitfully, as is to be force and proper at this day about the Riner of Khine in Germanie, and the River of Molell in France : and aboue all this, it belt abideth and beareth the contrarie difusfition of the heauens.

THRA. Ro doubt it is the mott excellent Plant : But whom doe you suppose to be the first Authour of the planting of it : The common fort doe attribute the first invention of it to ·Bacchus.

MARIVS. We that are taught by Gods holp word, doe Thein? know that it was first found out by the Patriarke Nosh, immetis uention ately after the droivning of the world : It may be, the Wine was Vine. before that time, though the planting and the ble thereof was not then knowne. The Beathen both molt fally and very fonds ly, as in many other things, doe give the invention of the fame buto the God Bacchus. But Noah lined many væres befoze eis ther Bacchus, Saturnus, oz Vranius were bozne.

THRA. It is most likely fo : But I wou'd faine know whether the planting of Ulines doth more eurich the halband then other hufbandzies doe.

MARIVS. About this queffion there is no little aboe among the Walters of old, where there are fome that preferre Graffing, Willing, and Woolales farre about the Uncs : and yet againe there wants not great and learned men. that affirme the Uline to be most gainefull ; and occlareth that olde fruitfulnesse of the Hines.

gainefull.

The Vine. Hines, mentioned by Cato, Varro, and Columella, which byon yard molt suery Acre pelded feanen hundred Gallonds of Wine, and the Elineparts of Sencea, wherein he had gerely byon one Acre 1000. Callonds : when as in Come ground, Paffure, or Wand land, if a man doe get boon one Acce rr. s. a være. it is thought a great matter.

Cornfields pared.

THRA. 13ut the Cline alketh great charges , and great tras and Vine- uaile about it . and it is subject to many nulhaus , as the colde yards com- Froffs of Winter, the blaffes and burning of Summer : and from the first appearing, till the third of Day (which is the last decre. forie day of the Time) the hurt of the colde and froft is feared. When it hath leaved this danger, then commeth a greater mil. chiefe, which lightly every pare both great harme : for either with blaffes in the Dorge Daies, or for lacke of rame, the Grapes. are withered and spoiled, oz elfe with ouer much rame they ware foluze, and not ripe. Sundzy other milhaps there happen, that the Aine is subica to.

MARIVS. Jaraunt : fo is pour Come like wife, for both it affecth great charges, and such calualties ofertimes budoeth the roze Bulbandman. For in all kinde of Bulbandap, if there be not great diligence, and good thill imploied, there will be but fmall commodific reaped. And cipesially the Aine requireth great huls banday about it for it is tender, and fore harmed, and therefore in choile of the Amerard, there muft be god hade, e both the nature of the Country, and the Lifpelition of the heavens to well confidered. Boft men plant their Gines without any areat care . oz here of them : and when they grow by, ble little diligence in the trimming of them, by which negligence, many times they wither before they be rive. Others againe thinks it makes no great mats . ter, inhat ground they befich about it, and meft times lay cut for this purpole, the world ground they have as though it would forue for this Want that will ferue for no other thing. Some againe, reave all the commodity they can the first proces, not previoing for farther time, and fo complaine that their games both neither ans finere their trauaile, not their charges, whereas int ade their owne folly and negligence is the caule : for if there be difigence & vaines... beftelved bpen it.as Columella preueth by many reasons, there is no hultandry lo prefitable, as the planting of Umes.

THE A.

75

THRA. I doe not denie but that there is great profit in it. where the around is mete for Ames, and not fo fit for Cours : otherwife I thinke the fowing of Come to be an eader matter, and forester way to enrich the hulbandman.

MARIVS. Surely as touching the eatineffe of the hufbans Drie, and the greatneffe of the game, the olde writers have ever preferred the Minepard afore the Carae field : for as Columcila reporteth, S lerna writeth, that the labour of one man is fufficis ent for eight acces of Wines, or at the leaft for feauen: of the me creale a haue fooben befoze.

THRA. Marry fir, at this day one man thinkes thee Acres to much for him : but not to trouble your talke, I pray you goe forward with the hulbandap of your Ames.

MARIVS. The ordering of the Wine-bearing-Tlines, as the forts of Wines are funder, neither can they be contained in certaine numbers, for there is as many forts, as there is of ground. Homer queth the chiefeit praple to the Wine of Maronia, and Prannium. Virgillinof commendeth Khenith wine : others the wine of Aminia, Lamentana, Candy, and Corlega, but 3 meane to speake of those that are commonly in our dayes. In staly at this day they make molt account of wine of Corlega, Roman, and Meylina, In Spaine the belt eftiente the Wine of S. Mareine, of Ribodari, and Giberalter. In France the greatelt praile is giuen to the wine of Orleans, Aniuo, and Greues: Bermanie began but of late to medble with planting of Wines, for Varro writeth, that the Frenchmen and Bermanes had in his time both Alines and Difues : but at this Day the Rhine, the Necker, the Mene, Molel, ano Dinaw, may compare with any Countries, for goodnelle of their Ulincs.

THRA. I fie that the Wines are Diucrilo Dreffed, otherwife in Italy, then in France, and other wife in France then in Gere many, every Countrey bling his severall fashion.

MARIVS. True: fozas Plinic, after Columella, teacheth. the Une may be planted fine funday waves : for cyther his bran. thes are fuffered to runne in fafetie byon the ground, or elfe without any flav groin byzight, or having a flay or a prov fet for them, they climbe by by it, or elfe runne by by a couple of fiffe wrops, called of Livic a yoke, or elle fultained with foure of those poakes.

poakes, which of the refemblance that they have with the bollow autters of a houfe, are lavd to be auttered : others againe luffer red to runne been frames like Arbours, ferning to fit buder, and are called Arbour Aines: others runne by by the walles of hous fcs. Pozeouer, the poaked Wines, called in Ozeke Enifeuglace, are tyed together, and isoned with this of foure prors, as if they were voaked : fome doelet them runne upon tras, as commonly in Lumbardy, they are fuffered to climbe byon Clines, Will, which be lewes, and Albes, where they greatly profper : newther doe they friends or like all manner oftras, for they hate the But tree, the Bay, the focs to the Rabith, and the Coll : as againe, they love the Poular, the Cime, the Willow, the fig, & the Dlinc tre, The Mines that are poar ked, or flaped by with props, receive more apre, and beare their fruit the higher, and ripe the better, but afte moze trouble in the loking to: and these are so ordred, that they may be plowed, whereby they are the moze fruitfull, becaufe they may the offner, and with the leffe charge be tilled The Aines that creep upon the ground, makemuch Wine, but not (as Columella faith) fo good.

THRA. Polu to your ozdzing of them.

Trees

Vine.

MARIVS, First, 3 will speake of the queund, and of the bigs ging of it, and after of the planting and cutting of them. And firft The orde- you muft take for a fprefall note, that every Thins will not agree ring of with enery place, ner væld his Wine in like goonelle, of fuch Vines. force is the qualitie of the apre. neyther will all kinte of ground ferne: for Columella doth counfaile to fet the Wine in a wilde What ground is ground, rather then where Come or buthes have growne : for as best for for el Clineparts, it is most certaine, they are the work places of the Vine. all other to fet new in . becaufe the ground is matted, and as it were netted with the remaines of the old rates : nerther hathit loft the poplen of the rotten and old Einihing Rotes, where with the foile (alutted as it were with benine) is benumined : and therefore the wilde and bulilled around is chiefely to be chofen. which theugh it be over-aroune with Grubbes and tres, map vet caffip be rives. If firch wilde ground be not to be had, the beft is the plaine champion land without tres: if neither fuch a ground, then the light and thinne bulbie ground, or Dline ground. The laft and worft (as 3 lavb) is the old rotten Etinepard, which if ncccliffe compell pou to take, you mult first rid the around of all the.

of the ordering of Orchards.

76

the olde rotten rotes, and then couerit epther with olde bung, or with the newell of any other kinde of mannuring : the rotes being thus digged up, mult be lapd up together, and burned. After must the ground be considered, whether it be mellow and gentle: It is thought to be god, that is fomething greatie and grauelly, and full of fmall publics, fo that it be mingled with fatte mould withall, which if it benot, is btterly difalowed.

Dame Ceres joyes in heavy ground, and Bacelow in the light.

Dou thall verceine it to be mallicand thicke, if being bigged. and caft into the hale againe, it rifeth ouer : if it fearfely fill the bole, it is a figne that it is light and thinne. The Flint, by the ges nerall confent of Busbandmen, is counted a friend to the Mine. specially where it is well conered with god mould: for being cold and a keyer of moviture, it fuffereth not the rotes to be feauls Ded with the heate of Summer : fomuch, that Columella Doib will men to lay certaine fones about the fides of the Mine tres, to that they ercicoe not the weight of five yound a viece : which as Virgill hath noted, keepes alway the water in Winter, and the heate in Summer.

Hurle in the thirflie flone, or therein throw the naflie fhelles,

So to we lie the banks of the Rhine being full of thele fones, to pield an ercellent goo Waine : but the ftones that lye aboue ground, are to be calt away : foz in the Sunnner, being heated with the Sunne, they burne the Uine, and in the Minter they hurt them with their coldnelle, contrarie to these that lye in the bottome. But the beft of all is the fote of an hill, which receis ueth the falling mould from the toppes, of the bally, that with overflowing of Rivers hath bene maderich. Repther is Chale hie ground to be refuled, though the Chalke of it felfe that Pots ters ble, is hurtfull to the Mine. The hungry landy ground the falt, bitter, and thirffie ground, is not meete for the Tline : vet the blacke and reddiff fande, medled with fome movit carth, is of some allowed well enough. Mescouer, neither ground to hotte, oz to colde, to dzy, noz to movit, to flender, noz to fiffe, that will not suffer the raine to finke, as mete is to be vied to: Alnes, fogit will cally gape and open, whereby the Sunne comming in at the craineffes, doeth burne the Rotes : That

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That agains which is overthinne, letting in as it were, by bents the Raine, the Summe, and the Winde, both brie by the mot flure of the rotes: the thicks and fiffe around is hardly to be labour a the fat ground fusice to to much rant em fie, the leane ground. to barreimelle : wherefore there muft be an quen temerature amongit these extreanuties, as is required in our bodies iphole health is preferued by the equal medler of heate and solde, dirth and morflure, fuincile and cmptin fle, or thickeneffe and thinnes:neither petis this temperature in ground for Uines fo juffiv to be evened, but that there is required a more enclining to the. one part, as that the earth be more het then colde, more dipe then moyff, more subtill then greffe, specially if the fate of the Beauens agrie: againe, what quarter thereof the Clinevard oucht to lye, it is an olde controuerfie, fome like beft the riling of the quarter of Sunne, fome the Wacff, fome the Porth : Virgill milliteth the theheaven Weft. others againe thinke the beft lping to be bpon the South. But in generall it is thought belt in colde Countries, to have it mufflie a. lye toward the South in warme Countries byon the Caft in hot burning Countries, as Ægypt & Barbaric, bpon the Dorth. Plinie would have the Line himfelfe fand towards the Porthand his fring, o: Cotes teluards the South. A fit ground, and well ipe ing, being found out, muft be diligently diaged, bounged, and wes dediall unprefitable words muft be pulled by, and throwen away, left they thould fying agains, and either corrupt the yong plants, oz hinder the labozer.

T. HR A. Before you come to trenching, 3 would gladly frare in what fort peu plant pour Gine, and what leafon is fitte ft fozit.

Thetime for planting of Vines.

What

the Vine

gainR.

MARIVS. I will firft fpcake of the featon, and afterwards: of the planting. The Time is planted according to Virgi's rule. in the fall of the leafe, but better in the Spring, if the weather be raynic, os colde, os the ground be fat, champion, os a watrifb. valley : and belt in the fall of the leafe, if the weather be dave and warme, the ground drie and light, a barren, or a rugged hill. The time of plauting, in the Spring (as Columella lapth) ene turethfortie bapes from the Joes of Februarp, butill the Aquine dialandin the fall of the leafe, from the Joes of Odober, to the Balents of December, Callian in Constantine, being taught bp. srperiencea ...

77

erverience, faith, in watrie grounds you fould rather plant in Auturne, when the leaves are faine, and the plants after the Clinc. tage belinered of the burthen of their clufters, found and ftrong, before they be nivped with the frofts for then they beft ance with the ground, nature applying her felfe wholly to the nourilhing of the rote. The time of graffing Columella faith, is of fome er, tended from the first of Douember, to the first of June, till which Graffing time the chote or graffe may be preferued : but it is not well liked of Vines. of him, who rather would have it to be done in warmer weather. when the Winter is pall, when both bud and rinde is naturally mouch, and it lafe from cold, that might annoy either the Graffe, or the Stocke : pet he granteth (when halt requireth) it may be pone in the fall of the leafe, when as the temperature of the ayze, is not much bulike to the Spring : for which purpole, you muft chofe a warme day, and no winde firring. The Graffe mult be round and found, not full of with, but of buds, and thicke of iopnts, VVhat the Tenant whercof mult not ercede thee inches and finoth, and Graffes suen cutte : the flocke and the cleft muft be well closed with clay to be cheand mote. Those that groin toward the South mult be marked. which Virgill obferuing, faith :

But on the barke, they alfonote the quarter of the skie; The order how it flood, and grew, and where the South did lie.

The like is to be done with all other Tras. Of planting of Alines, there is tino waves, the one of the Rote, the other of the. branch, or fpray : The Hote is counted a great Deale better then the branch or fet, by reason of the formaronelle, and bantage that it hath, in that it hath alreadie taken rote. The Rote is fet in fiffe ground, well bigged and laboured, in a trench of thee fote, the fet or forap, in a gentle and mellow ground : in drie ground, it is neither goo to fet the Rote, not the Branchin a bap fealon : it is belt to plant in the fall of the leafe in a hot fealon, and in a colde and mopft, in the Sozing: in much wet pou maffet them thinner, in great drieth, thisker : in what fort pon fall make a fore Barben foz Tlines Palladius teacheth vou. The fot requireth a time to rote, and being remoued will beare the better fruit. The rootes Doe beare fruit the lecond viere, or looner: the Sets, or 152anchis, scarfe in the third of fourth viere, though in fome places fooner. Lidymus ...

Didymus in Conftantine teacheth an ealie and a reable way of planting the Duicklet, which is, to take of a ftrong and ten være Wine, the longelt and faireft branch, that groweth loweft, a fote from the ground, and laying it long in a Trench of a fote depth, to couer it with earth the space of foure iopats, so that remaine in the top, ercede not two or three iopnts : and if the branch be fo long, as it will ferue for two burnings, you may make thereof two rotes. Dou muft not fuffer two rotes to runne by byon one fav, but allow euerp rote his fupporter. The Branches, or Set that poumcane to plant, you mult cut from a very fruitfull and fourtifing Aine, that bath borne rive and perfect god fruit, full of iounts, and not any waves tainted, but whole and found. DE fuch you muft choice your Sets, and not of young Hines, that are weake and feble, but fuch as are in their chiefe fate. Bozcoucr, pou nuft gather pour Set, not of the higheft, noz the lolveft, but from the middelt of the Aine : the Set muit be round, finoth, full of knots and toynts, and many little burgeons. Allone as you have cut it off, loke that you fet it : for better both it agree with the ground, and somer grow. If you are driven to kape them, burie them in the ground either lose, or lolely bound : and if the time be long that you meane to keepe them, you must lay them in emptie barrels, Arawing earth under them, and boon them, that the earth may lie round about them : and the barrell you mult flop closelp with clay, that there enter neither winde noz aire, fo thall you preferue them two moneths in their awonelle. Such as are over bie, you mult lay them in water foure and twentie houres afore you let them, and you mult fet two Sets together, that though the one faile, the other niay take: and if they both grow, you may take by the leffer of them : you muft not make a medley of fundin forts, fpecially white and blacke toger ther : but as Columella faith, muft fort them feuerally. Dou muft beware that the Sets have not put out their forings , and that pou fet not a withered Set. Conftantine would haue the Set fomething croked, affirming that it will the foner take rote. Dou mult lay about them their or foure fones, and then ralle the earth, that it may equally with the dung be troden downe : for the fiones keveth the earth firme, and as I faid before, coleth the Hote. Both the ends of the Set you mult annoint with Dre

bung,

hung, for the killing of the wormes: as for the length if it be full of iopats, it may be the florter, if it have few topats, you muff make it the longer, & pet not creeding a fot in length, noz a thaftsman in floatnelle, the one for being burnt with over broncie in Sommer : the other, leaft being fet to dieve, it be withgreat hardnelle taken up, but this is for the levell ground : for boon hils, where the earth Will falleth, you may have them a fort and a hand breath in length. Florentine would not have the trench leffe then foure fote in depth : for being fet fallow, they foner. becay, both for the want of fuffenance, and areat heat of the Sunne, which is thought to pierce foure fate into the ground: The thaugh fome there bee that thinks their fote fufficient for the length of plant. The Trenches for Hines , Virgill thould not have berp the fets, Depe : but dieper a great deale for Tries. Such Unes as pou meane fhall runne bpon tres, pou mult plant three cubits piffant from the Tro: : afterwards, when they be well growen, and need to bee topned with the Tree (which you thall verceine by his thickenes) vou thall lay it downe in length, & burie it. till it come within a fot of the Trie, fuffering the remains to goe at liber, tis, nipping off all the buds with your naile, ercept one of two. that it may the better profper, which when it is growen by, you mult jepse by little and little to the Erce, that it may reft boon . . . it: which part of the Eric muft be diligently propned, and the springs and filences that grow out of the rote, must according to Florentinus, be cut cleane aluay. The tres, as much as may be, muft be forced to the Gaft and Wilf, and both the Tre and the Time, mult have the earth well digged, and bunged about them. In rich ground, you may luffer the Trees to growe in height, but in barren ground they muft bee pulled at feas uen oz eught lot, leaft all the lubftance of the Carth befoaked by of the Erie. After your planting, you muft digge the ground The ordseuero Moneth , and woods it , fpecially from the firft of March, Vines aftill the firt of Dabber : euery thirtieth day pou muf bigge ter their about the poung plants, and plucke by the webes, frectally planing. the graffe, which except it be cleane plucht bo and cafe alway, though it be neuer to well concred , will foring againe , and to Of digburne the plants, as they will make them both foule and withe, ging and unging ted; the oftner you digge them, the more god you due them, of Vines, Wihen .

Of dizging and dunging of Vines.

When the Grape beginnes to alter, you mult in hand with your third digging, and when it is rive, before none when it wareth bot, and after none when the heate decreafeth. you muft diage it, and raile the duft, which doing ocfendeth the Grave beth from the Sunne and the Diffe. Accarding to Virgils minde, the Cline muff be digged and weeted enery Doneth : fome would have them digged all the Summer long, after cuerp deale : others as gaine will not have them digged as long as they bud or burgen. for hurting the forings, faving, that it is enough to diage them thife in the vore, from the entring of the Sunne into Aries, till the riling of the leaven Starres and the Dogge. Some againe would have it done from the Unitage before Winter, and from the Toes of Avail before it take, and then againe before it forme. and likewife before the burning houres of the day. In fome plas ces when they have digged them, they doe not fraight waies couer them, but fuffer the trenches to lpe open all the Wanter : in fuct and raphie places they couer them foner, clofing by the rots with earth, and Ropping all the pallages of the water, Some make the trenches bery depe, and lome not palling a fote dere : and when they have bone, they cover them aloft with Dre-tung. Shapes dung, oz Bogges dung, oz ofother Cattell : Biogions dung is the hotteff. and fuch as caufeth the Time faireft to grow. but maketh the wegler Wine. The dung mult not be lapo clole to the Mine, but a little diffant from it. Whereby the rotes that fpread abroad, may have fome helpe of it, and the bung muft not touch the rotes.for breaking of them; if there be no bung at hand. the Balkes of Beanes and other Buile, will well ferne the turne, which both defendeth the Wine from froft and cold, and keyes them likelvile from noviome wormes : the kernels, and the falkes of the Graves, one likewife supplie the want of dung; but Piffe the the beft of all, is old fale Brine. The plants of a være, og tivo beft dung. yere old, and to forth, till fiue veres, muft be diferetly diaged, and bunged, according to their fate : in fant p ground, the beft bung is of Sheve and Goates : and in fuch fort vou muft digge The order the ground, that the earth that leth high ft, be caft to the bots of digging tome, and that which was at the bottome, be lave aloft : fo thall or firring that that was by, by the mouthure within, be helped, and that

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muft also fie that there be no holes not vits in the Uinepard, but that it lie even. When you have thus digged it, and that the Hines have taken rote the first viere, the rotes that grow about muft be cut alogy with a farve knife : for the Uline, if it be luffe, red to rote every way, it hindereth the deepe downe growing of the rote. The Unes that are now of two pares growth, we mult digge and trench about two foote deve, and the foote bioad.according to the rule of Socion. Df those Tlines that climbe boon Tras, you must likewife cut off the forings that runne as mong the rootes of the Trie, left the small rote tangling with the greater, be frangled; and therefore you must leave fome little fpace betwirt the Une and the Tree. Diften diaging caufeth great fruitfuineffe : good hed muft be taken, that the plants be not hurt in the digging : also it must be digged befoze his flouris thing, or thooting out of his leaves : for as immediately there. withall be beginneth to thenk out his fruit. to bee that diggeth after the comming footh thereof. wleth much fruit with the vielent Chaking, and therefore mult bigge the timelier. Cutting and dreffing of the rootes, you must begin in hand with at the Joes of Dabber : fo that they may be trimmed and difpatched afore Minter. After Minter Diage about the rootes that you Dreffing have dreffed : and before the Sunne enter the Equinoctium, of Vines. levell the rootes that you have trimmed. After the Jdes of Apzill, raife by the earth about your Aine : in Summer let the ground be oftentimes harrowed. After the Jdes of Daober as Thaue faid) befoze the colde come in, you must dreffe the rootes of your Aines, Indich labour layeth open the Summer Springs, which the good huldandman cutteth away with his knife : fog if you fuffer them to grow, the rotes that grow volume will perify, and it havneneth that the rootes forcad all aboue, which will be fubied both to cold and heat : and therefare whatfocurr is within a foot and a halfe, is to be cut off, but fo, as you hurt not the prine civall, Dou muft make this riddance of the rootes at cuery fall of the leafe for the first fine porces, till the Aine be full arowen: after, you must decke them every fourth piece : fuch Thires as are ispned with Tries, for the buhandformette, cannot be thus handled. Clines and Trees, the fooner their Routes bee thus dreffed, the ftronger and weightier they will bee ; but fuch as grolu :)

grow byon the fides of hils, muft fobe decfed, as the byper rotes neare to the Locke may forcad largely, and buderneath towards the foote of the hill the earth muft be banked to keve the water and the mould the better. The old Thine mut not have his roots medled withall for withering, nor be plowed, for breaking of them, but the earth a little loofed with a Battocke, and when you have thus breff the roote. lay dung about it. After this ridding of the rootes, then followeth propning, or cutting, whereby the whole Thine is brought to one tivigge, and that also cut within five joynts of the earth : which cutting muft not be in the joynt. but betwirt the iopnts, with a flope cut, for auoiding the water : neither muft the cut bee on that fide that the budde comes out of; but on the contrarie, left with his bloding bee kill the budde. Columella appointeth two featons for the cutting of Hines, the fusing, and the fall of the leafe, judging in colde Countries the cutting in the Spring to be belt, and in hot Countries where the Winters bemilde, the fall of the leafe: at which time both Tras. and Plants, by the deulne and everlatting appointment of God. pield by their fruit and their leafe. Det mult not your fets be to nearely cut, ercept they be very fable: but the firit pare they be let they mult be holpen with often digging, and pulling off the leanes monethly while they beare, that they may grow the better. Phamphilus in Conftantine, declareth the time of cutting, oz v2019 ning, to begin in February, oz March, from the fifteenth of Fee bruary till the twentieth of March: fome (he faith) thought good to cut them immediately after the gathering of the Grapes, left by bleding in the spring they loose their fultenance : though bee ing cut in the fall of the leafe it furingeth the fooner in the furing, and if the colde of froft happen to come, it is fpopled. Therefore in colos Countries, it were better to proyne it alittle, then to cut it throughly, that is, to luffer the principall springs and branches to grow. Againe, it is bery necessary to cut them in the Spring: the cuts muft be made with a very tharpe knife: that they may be imooth, and that the water may not fand in them, to the engene Dring of wormes, and corrupting of the Uline: you mult cut them round, to will the cut be fooner growen out againe : but Plinic spould have them flope-wife, for the better anopding of the mas ter. The branches that be bread, old, crooked, or waythen, cut alwap.

sinay, and fet yong and better in their place. Dou muft make an end of your cutting with as much fpede as you may : from the Toes of December, till the Joes of January, you muft not touch your Wines with a knife : for Columella witneffeth , that mines in winter may not be cut. In cutting, remember well to ent it betwirt two toputs, for if you cut it in the toput, you full it: let the cut be alwaics downeward, fo thall it be fafe both from Summe and weather. Don muft not cut them bery earely, but when the Sun hath dzunke bp the froff, oz the deale, & warmed the branch: the fprings of the fets the first pare must be cut with good diferetion, not fuffered to grow too ranke, not cut too neare, but making the olde let to luffer a lyzing or two to grow out. Pert buto cutting, followeth the propping, or supporting of the Propping Time: and it is belt for the yong and tender Time not to be ftayed of Vines. by with any firong ftay, but with fome fmall thing at the first, and while it is yong, it must be daintely tyed to the stay with smal tinics of Willow, Elme, 1520me, Hulbes, oz Straw; this latter. binding is thought to be beft, for the tluigs when they ware drie bae vierce and hurt the vinde. There is an hearbe, which becaufe of his autnes for tying of Hines, the Sicillians call a ward offering. The beft flaves for Uines, as Plinie faith, are made of Willow, Dhe. Med. Juniper, Cupzelle and Cider. And in another place. hee preferreth the Chefinut for this purpole, abeue all the reff. The beft for the Aine, is the Rade, which well endureth fine piercs. Gelding of the leaves, & cutting the Uline, is almost in one manner : the gelding of the leaues, or braunches, muft be bone Gelding thuile a yere, to the end that the superflueus springs a leaues may or pluckbe plucked off. The fielt (as Pliny waiteth) muft be dene within ten leaves. daics after the Bocs of Day, befoze the Uline begin to flowze: foz about the tenth of June, both the Cline & the Willeat, the theo nes ble fruits, do flowze. Df the fecend time, the opinions are fundar, for fome fuppole it beft to plucke off the leaves & branches as fone as it hath left flowing : others, when the fruit is full rive. The fus perfluous fprings being yong & tender, are to be taken away, that the Tine may be more at libertie, and through blowen with the winde. This geloing, og cutting alway the superfluous branches e leaues is as notful as the propping : for both the fruit both profper the better, the propping the next yeere will be the hand fommers

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and the Cline will be the leffe full of galles : for that which is cut being greene and tender, doth the foner and the foundlier recover himfelie, and the Grape ripeth the tetter. Den dates befere the Eline beginnes to Boluze , for that you geld it in this fort ; Cot off all the fuperfluous branches, both on the toppe, and on the fides, but meddle not inhere the cluffers grow, frike off the tous of the branches for growing to ranke : fuch Grares as groin to. ivarbs the South, oz the Welt, leave them their baanches to ber fend them from the beate of the Sunne: cut away meft from the voung Uine, for euer-burdening him. After the beate of the Sunne beginneth to fade, away with the leanes, for hindring the Graves of their riping : and while the Grape is a flowring, buffe your felfe with digging about it. Such Elines, as with thicknes of their leaves corrupteth their fruit, are to be rid of their fuverfluous branches and leaues a Boneth before the gathering of your Graves, that the minde may blow the better through them: but the leaves that grow aloft in the bery toy, mult not be mcoled with, but left as a defence, and thadoly againft the heat of the Sunne : but if fo be, the end of Summer be given to much raine. and that the Grapes fwell in greatnelle, then hardly plucke off the leaues from the top alfo.

T H R A. Pou have told bs of a great deale of lavour about Mines.

MARIVS. The Une keeper mult often go about his Unes, and let by his props, and make even his yoakes.

T H R A. Due thing J pray you, let me heare more, the fignes and tokens of the ripeneffe: for as J buderfland, we may not be to buffe in gathering them to fone, nor ble any lingring after they be ripe, without great harme.

MARIVS. Dou laytrue: for being gathered before they be ripe, they will make but finall Cline, and not durable. And as gaine, if you fuffer them to long, you thall not onely hurt the Cline with the ouer-long bearing of her burden, but also if hayle or froft happen to come, you put your Cline in great danger. Democritos writeth, that the Grape endureth in his ripeneffe not aboue fire dayes, and therfore the indgement of his ripeneffe, is not alonely to be given byon the fight, but open his taffe, though Columella thinketh there can be no certaine indgement

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gluen of the take. But if the Kones doe change their colour, and be no longer græne, but be almost blacke, it is a figne the Gzape is ripe. Some againe do preffe the Gzape betwirt their fingers, & if they fix the fione to flip out fmoth, without any thing cleaning to it, they thinke them make to be gathered; but if they come out with fome part of the Gzape cleaning to them, they count them not to be ripe. Others prove them in this fart : Out of a very thicks cluffer they take a Gzape, and as they behold the cluffer well, wherein they lie no change, they take it for a taken of ripeneffe. Pou must gather your Gzapes, the Done being in Cancer, Leo, Libra, Scorpius, Capricorne, or Aquari, and buderneath the earth.

THRA. Is there no way to make the Grape ripe freedily ?

MARIVS. Plinic teacheth, to rubbe ouer the Rotes with fart Ulinegar, and bery old Uzine, and thus to be often digged, and conercd.

T H R A. What order have you for prefering of your Grapes when they be gathered ?

MARIVS. Some kkepe them hanged by in the role of chambers, and fome in earthen pots, close coucred with woodden beffels. Palladius theweth away how to kkepe them byon the Time, till the Spring.

THRA. J pray you prockede with the other fruit Tres of your Drchard.

MARIVS. Among other fruit tres nert buto the Wine (as The Olive Columella faith) the chiefe place is giuen to the Dlive, in Latine Olea. Df all other Plants it requireth least trauaile and chars ges, where as the Une requireth most : and though it beare not enerv pere, but enery other pere, petis he to be borne with all, because he asketh neither colt not labour : and if you befow any byon him, he recompenseth it throughly, with the abundance of his fruite. And fince there is to great profit and commodifie in this tra, and that the bles of it are fo many, and fo nætefull, it is god reason to be diligent and carefull about it : he loueth a ground neither to high, not to low, but rather the fide of a hill. fuch as is the most part of Italie and Spaine: for in fuch ground the extreame heate of the Summe, is fomething mollified with the cold blaks of the winde : for in Olive tres (as Plinie faith) the loyls and the clime is of great importance : it delighteth 1 lit

in a warme, and a drie avre; and therefore in Barbary, Sicil, Andalufia, fundap parts of Italie, fpecially Campania, it profpereth wonderfully : it liketh not to great heat, not to much cale. And therefore in bot Countries, it iorneth woon the Porth fide of the billes, and in coid, bpon the South fibe. It is thought, that if it ftand abone theelcore miles frem the Dea, that it evther Decth. or promoth not fruitfull. The best around is the granelly ground. having aloft a little chalke mingled with fand : it is also good ground where the fand or granell is medled with rich meuld : pea, the fiffe ground, if it be rich and linely, both bery well agrie with this tra. Chalkie ground is btterly to be refused, and watry and marill ground woult of all. The like is a barraine fand.and hungepland : but pou may let it well in Come around, inhere either the Wilding og Paltieline hath growne : bat betwirt the Daite and it ihere is great hatred, for if the Date greiveth nore. it fivethalway, and fininketh towards the earth : and though you cut dolune the Dake, pet the bery rotes poploneth and killeth the pore Oline. The like fome affirme of the Tras called Cerrus. and Elculus : for inhere they be pulled by, if you let the Dline, ha bieth : fo both it (as Plinie faith) if it chaunce to be bauifed of the Boate. On the other fibe, betwirt the Dline and the Cline there is great friendfhip and love : and it is faid, that foou graffe the Dlive bpon the Uins it will beare a fruit that falbe halfe Grape, and halfe Dlive, called Vuolea, an Olive-Grape. There are funday waves of planting of Oliucs : fome take the bigg off beanches from the Tras, and Salwing off the poungelt plants of two cubits in length, they fet them apperiy in the greand: fome fette the whole Tre together : fome againe cutting cf the tops, and all the branches, fet the focks about the rifing of the Starre Areturus. Banp make them Impe Cardens in god ground and mellow, fuch as is commonly the blacke moulde : herein they fet the young branches the loweff, and the farreff, thoos three inches in thickneffe, and very fortuil, which they gather not from the body of the Eric, but fem the newelt and lateft boughes. Thefe they cut into pretty Settes of a lote and a halfe in ienath. taking god hede that they burt not the rinde, and paring the ents bery fmothe with a fharpe Buile, and marking them with redde Oher, that they may know which way they food afore, and

82

and to letting the loweft part into the ground, and the higheft tos wards the heausn, they but them in the ground, and to they grow the faffer, & beare the better : for if you fould let them with the lower end byward, they would epther hardly grow, or prome unfruitfull : and therefore they have a regard of the fetting of them. Pou mult belide, befoze vou let them, rubbe ouer both the toppe and the fote with doung mingled with Alhes, and lo let them deve in the ground, concring them foure fingers thicke with rotten mould. Dou may chofe whether von will fette them all buder the ground or fet fome part within the ground and fuffer the reft to appears aboue the ground : those that be lette all within the ground, not to be marked, but fuch as thail fand with one part aboue the ground. Dydimus would have them to fet as they may appeare foure fingers about the ground, and then to make a little trench for the receiving of the water : and this many ner of vlanting with the boughs, is of Dydimus beft liked. Where you mean to plant, you mult purge the ground of all other plants, buthes and medes : and the trenches mult fo be made, as with the winde, the funne and raine, it may be mellowed & made crom. bling, that the vlants may the somer take rote. If your businesse require hafte, you must a moneth or two before, burne in the trenches either flicks oz rede, oz fuch things as will ealife take fire : and this you must bo divers dairs together. Peur trenches muft be the cubits, or thereabout in depth, \$ 40, cubits alunder, whereby the tras may have apze enough: the first fecond, and the third piece, the earth muft be trimmed with often raking : the first two parcs you must not meddle with propping : the third piere, you muft leave byon every one a couple of branches, foften rake pour Timpe garden: the fourth yeer, you that of the two brans ches cut away the weaker: being thus ordred. in the fift vert they will be meet to be removed : the flocke that is as big as a mans arms, is beft to be remoued : let it fland but a little aboue the ground. to that it prosper the better. 15 cfore you remoue it marke the part that fto) South with a pice of Dker, that you may fet it in like maner againe. Pou must first dig the trenched ground with Mattocks, after turne in Cone-plowed earth, folv it with Barley : if there be any water flanding in them, you must let it sut, and caft in a few finall fones, and to fetting your Settes, :caff

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caff in a little dung. After the tenth of June, when the ground gapes with the heate of the Sunne, you muft take biede that the Sunne pierce not through the clefts to the rote. From the cus fring of the Sunne into Libra, you mult ricde the rotes of all superfluous forings ; and if the Tre grolo byon the edge of a hill, you must with little gutters dealy away the muddy water. The dung mult be call on at the fall of the leafe, that being mings led in Winter with the mould, it may kepe the rotes of the tras warme. The mother of Ople muft be polyzed bpon the great ones, and the molle mult be cut off with an Iron Intrument, oz elle it will pield von no fruit. Allo after certaine pæres, vou muft cut and leppe pour Olive tres : fos it is an old preverbe. That who to ploweth his Dlive Carden, craueth fruit : who dungeth it. moweth fruit : who cutteth the tras, forceth fruit. In the Oline Tre vou thall fometime have one branch more gallant then his fellowes, which if von cut not away, you difcourage all the reft. The Olive is allo graffed in the wilde Olive, specially betwirt the rinde and the woo, and by implatiring: others graffe it in the rote, and when it hath taken, they pull by a parcell of the rote withall, and remoue it as they doe other plants. Those Olives that have the thickeft barks are graffed in the barke. The time of Staffing them, is from the entring of the Sunne into Aries, and with fome from the rry of Day, till the first of June. The time of gathering of Olives, is when the greater part of halfe the fruit wareth black, and in faire weather: the river the Olive is, the fatter will be the Ople. In gathering of Oliucs, there is more cuns ning in making Dyle, then in making Wine : the leffer Olives ferue for Dyle, the greater formeate. Ehere is fundey forts of Ovicmade of an Olive : the first of all is rate and pleasantest in talt: the first streame that comes from the prefic is belt, and fo in opder. The beft Ovle is about Venafri in Italie, & Licinia in Spaine: the next in gomette, in Provence, except in the fruitfull parts of Barbary. The Olives that you may come by with your hands, you mult cuther byon the ground, or with Ladders gather, and not beat them dolune : for those that are beaten dolune wither, and pield not fo much Opleas the other : and better is the Oline that is gathered with the bare hand, then with gloues: there is an ele law for Olives, Bruife not the Olive, nor beate him. Those that

passe

waffe the reach of the hand, mult be rather beaten downe with Rades then Powles: the Dyle is increased from the riling of the Berward, to the rbi, of the kalends of Daober : after, the ftone and the meat doe grow. Df Dyle, fome part ferueth for meat, and other for the fompling of the body : and therefore as Varro faith. it accompanieth his mailter, not enely to the Bath, but allo to the field, or wherefoeuer he goeth. The Dlive whereof you make pour Dyle, mut be taken from the ground : and if it be foule.muft be walked : for the drying their dayes is lufficient : if it be frofty weather, they muft be prefed the fourth day : every firft heave malt be put in earthen pots, and Dyle bellels, where with hard and rough fiones they are grinded. The gathered Dlive, if it lye to long in heapes, putrifieth by realon of heat, & makes bulauery Dyle. Bils are more handlome for the making of Dyle, then the trough and the fote : for the Bils may be handled with great dif cretion : the whole floze may be rapled or let downe, according to the quantitie of the Berry, leaft the fone which would marre the talte of the Dple Gould be broken. The Breffes chiefely, and the Dyle houles ought to be warme, for the spedier running of the Dyle, which with cold mould make the longer fay. And fith heat and warmth is fo neofull, you mult provide that your house lve toward the Sunne, fo thall pou nede neither flame noz fire. which with imoke og lote, may cogrupt the talt of your Dyle. The lawes and order of gathering, and beftowing of Dlive, hath Cato deferibed : the manner of preferring them is declared by Columella, which were to much for me to weake at this time.

T H R A. Boe on then, and let be heare what you can fay of Apple trees : whole ble is more commonly knowne buto be.

MARIVS. The Apple, called in Latine Pomum. There Apples. are that put this difference betwirt the Apple and the Putte, that whatfoeuer fruit is to be eaten foft without, and hard without, in, is an Apple, and the contrarie a Putte. Pomum generally fpoken, is to be underfixed of all that the Greekes comprehended in the word, Owoega, as Beaches, Dunnes, and Peares, wherebut the Lainger agreeth : but in this place I speake of Apples, according to the common phrase: as for Quinees, Pomegranates, and Unrate Plomes, I will speake of in their one places. There are such fundry forts of Apples, differing both in those and fauour, I 2

as are fcarcely to be numbred. In the olde time the chiefeft Av. ples were Septians, berp great and round, Martians, Claudians, Matians, and Appians, fo called of thett firft founders : fome as gaine toke their names of their Countries, as Camerians, and Grecians: fo others of their colours, as red, languine, filken, and golden. The have at this day that are chiefe in price the Diopen. the Romet, the Domerovall, the Darigolo, with a great number of others that were to long to fpeake of. There is but one manner of planting and graffing of them all, fauing that the Peach, the Lemon, the Appleot, the Quince, and the Cytron, which are all, of Diolcorides, accounted in the number of Apples, require a little more diligent care, as thall be faid hereafter, then the os thers, for they are all both planted and graffed : the manner of an Impe Garden Caro defcribeth. Apple tres are fet either in Februarie, of in Barch: of if the Countrey be hot and day, in Scober and Pourmber. But all kindes of Apples doe better prosper by graffing, and inoculation, or imbudding, as 3 faibbes foge about Parch og Appill, og ivhat fime fo euer the fap be in the rinde. They are also graffed by implastring, about the tenth of June : though fome (as they fay) have had god fucceffe in doing it after the entrance of the Sunne into Aries, as 3 haue faid bee fore, where I loake of implattring and Graffing. The Apple is commonly Graffed byon the Crab flocke, or byon the Bramble. being first planted, and the percafter cut off within a fote of the earth : byon this ftocke you may Graffe (as I faid) the tender poung Graffes of any Apples. Palladius faith, pou may graffe the Apple boon the Derrie, the Bainthome, Blumb tre, Seruilletre, Deach, Plane tre, Poplar, Willow, and Beare : but in such difference of Countries, we can let downe no certaine ozs Der foz them all : and therefoze as farre as mine owne experience. and the knowledge that I have learned of others will aretch. I will glading their you. There are that accousing to the olde ous Der, bos Graffe the Apple either bpon a wilde Berry, or bpon a Quince, whereof they have a molt ercellent fruit, called of the olde Witters Melimela. If von Graffe bpon the Plane tre, pou thall haue a red fruit : you may also well Graffe pour Apple bus on the Damfon tre, and if you Graffe boon the Cotron; you shall have them beare, as Diophanes faith, fruit almost all the

pære.

verelong. The Apple loueth a fat, and a good ground, well was tred rather by nature, then by induffrie. In mountaine Couns tries, they mult alwayes be fet toward the South : it profvereth well enough, fo it be fomething holven with the Sunne, neither Doe they refule either rough of marrilh grounds. A leane and a barraine foole bringeth out wormereaten, and falling fruit: the novlome Wormes are deftroyed with Bogges dung, mingled with mans bine, and powzed boon the rotes. And if the tre Againft be very full of Wagmes, being fcraped boinne with a brafen fcra, hurtfull per, they never come againe, if the place whence you fcraved wormes. them, be rubbed over with Bullocks dung : fome adde buto be rine Goates dung, and power byon the rotes the Las of olde inine. The trie that is ficke, of profpereth not, is holven being watred with Alle bung, and water fire daves : they mult be of. ten watered at the fetting of the Sunne, till the Spaing be come out. Plinic ingiteth, that the water inherein Lupines hath bene fod volver o bvon the tree, doth the fruit god. They fay, if the trabe much watred with bine, the fruit will be red. Dthers as gaine fet under their Tras Roles, thinking thereby to have their Apples red. Apple Tras (as 3 faid befoze) muft be fet euerp fozt by themfelues, as Columella biodeth, leaft the fmall tres be burt of the great, because they be not all of one growth, or arength. Befide, you muft let them very thin, that they may have rome to thot out their branches: For if you let them thick, they will never beare wel, & therefore you mult fet them forty, or at the least thirty fot a funder: The Apple Declareth his ripenes, by the blacknes of his kernels. They are gathered after the fourtanth of September, or there about, according to their kinde, and not before the Mone be leauentiene dates old, in faire weather, and in the after none : Those that fall from the tre, must be laid by them felues : it is bets ter to pull them, then to thake them, least they be bruiled in their falling. They are kept in faire lofts, baults, oz colo places, with To keepe windolves opening toward the Roath , which in faire weather Apples. muft be fet wide open: & therfozeVarro would haue all Apple lofts have their windowes porth , that they may receive the porth aire: the South winds muft be thut out : The blaffs of the 12 outh winde, both make them winkled & rugged : they must be laid thin bpon Straw, Chaffe, oz Bats. I had an Apple brought me out of 14 Holland.

Bolland, that endured thic varies : I have a tra of them here in this Dichard of his colour, called a Greening. Bou mult lap enery fort by themfelues, left fundry forts iping together, they foner rotte. Some ble to lap them in Putleaues, which both. giueth them god colour, and god finell. They are also kept from rotting, if they be lavd in 15arley of Wilheate. Palladius would haue them best in earthen beffelsciole ftopped,in Sefferns.oz in Caues : Apuleius in Conftantine, would haue cuery Apple wave ped in fut leaves, and to laid by : a great fort of wates befine of kaping them, you shall read in divers Authours. Some to avoide. the hurt of the froft, ble to couer them with wette Linnen cloth, which being frozen, the fruit that lyeth buder it, is preferued. Bour Apples muft be fo lavd by as the falkes fand dolonipard : neither muft you touch any, but fuch as you niede. Avules are hurtfull to bearing cattell. fo as the favour cauleth them to tyze. as Lucian in his Alle witneffeth : the like is waitten of Beares: the remedy, they lay, is to let them eate fome of the fruit afore. Df Apples, with certaine Bils for the purpole, they make a drink called Cider, and a finall drinke befide with water, and the refuse of the Apples frained, a good dzinke to cole the thirft of the poze labourer. A kinde of Winiger also they make of Crabs.and foince Apples, which lying in heave together thee or foure dates, they afterwards put into a Dipe oz Tunne, wherewith they mingle Spring water, or Ravne water, and fo is it fuffered to fand close coucred thirtie dates, and after taking out what Mineger The peare, they note, they put in againe as much water. The Peare, in Las fine Paus, challengeth the next place, a is one of the chiefeft beaus ties of the Dichard. The Apple triel pleadeth in bload bia nches: the Peace tre rifeth in height , & Delighteth in a rich and a moife ground : it both grow of the kernell, and of the Bippen, butis a great while before it come to god : and when it is growne, it degenerateth from them his old god Pature, and therefors It is better to take the wilde plants, and to let them in their ground in Pouember, and when they be well roted, you may graffe byon them. It is faid, that it fo profpereth with often dige ging, and much moiffure, as it never losoth his flowe. Dou thall doe great god buto it, if every other piece you bellow fome dung byonit. Ore dung is thought to make great and mallie 1 1 2 3 Dearcs :

Peares : fome put to a little A thes to make their talle the plea. fanter. They are not alonely planted of the rotes, but also the bery little twigs, being plucked from the rote, will grow. If you will fet pouna plants, let them be thic piere old, oz at the leaft two viere old before vou fet them. Some againe take the favreft branches they finde boon the trie, and fet them as they due the Dlive. The time of graffing the Beare, is Barch and Apzill : Plinie faith, you may well graffe it when the bloffome is on it, which I mp feife have trved to be true. It is graffed bpon the Quince the Almond tree, the Pomegranate, the Apple, and the Bulberie tre : if vou graffe byon the Bulberie, your Deare thall bered. Virgill teacheth to graffe it boon an Albe, whereas in-Diede it will agrie with any fock: the Graffe muft be the growth of a være, and afore it be graffed, clæred of all leaues and tender parts. And if you would have the fruit pleasant, and the trie fruitfull, you thall boare a hole through the flocke close by the ground, and driuing in an Dken or a Biechen pinne, couer it bp with earth : if the trie profper not, wall the rotes, and water them with the loss of old Wine fiftene Daies, to thall it beare the better and pleafanter fruit. It fhall neuer be hurt with wormes, if when ye plant it, you doe annoint it with the Baule of an Dre: if the tree (whole rotes have bene cut) fime not to profper, Palladius his remedy is, to pierce therate thozow, and to brine in a pinne, made etther of Dake og Plumtrie. If your Peares be ftos nfe, and choaks Beares, big by the earth from the rotes, cleanfe them of ftones, and fift in god new mould againe in the place : let your Peare tres Kand thirtie fote alunder, og little leffe : pour Apple trie farther, as I haue faib. They are kept preferued To keepe funday maies, fome Dipping the Kalks in boyling Ditch, Doe after, peares, wards hang them by, and fo keye them : others kepe them in new boyled alline, or elle in a close beffell : others in land, lome in flocks, and fome againe concred with wheate, or chaffe : fome are of opinion, there is no kinde of fruit, but may be preferued in honep: Df Beares Paliadius teacheth, as of Apples, to make both drinke and faule, the impre being prefe out with the prefe women have a pretty diff made of Peares for their religious fafts, called Caltimoniale. Pert in order, after Apples and Peaces, coms The meth the Quince, inhich was first by Cato called Cotoneum, the Quince. Bzückes

Bicks call it, Eudawiov, of the Title Cydon, from whence it was firft brought : the Italians, Meie cotogne, the Spaniards, Membrillo : the French men, Vn coiginer : both the Bzekes and Virgil call them of the colour xeusomina, Golden Apples, e Struthia. which kinde (though they differ a little) are of this fort : for Columella fneaketh of thie forts of Quinces, Struthia, Chrylomela, and Muctea, which all ferne both for health and pleafure. They are planted after the fame manner that Peares and Cheries are: fome affirme, that the lettes that have bene let in Barch, ozin February, have taken fuch rote, as they have borne fruit the være after. They grow well in cold and moult Countries, in plaine & hillie grounds. In hot day Countries, you muft let them in Ddober. Dany let them with the tops and the let, but neither of them both is very good : and being fet of fcience, they fome des generate. They are better graffed in the Bock then in the barkes and that in February oz March. Thepreceive into their flocks. the Graffes (in a manner) of all manner of tres, the Pomegras nate, the Serville, all the forts of Apples, and make the fruit the better. The Duince tre muft be fet in that order, that in the thas king of the winde, they drop not one boon the other. When it is young or newly planted, it is helped with dung, or better with Athes : they mult be watred as often as the lealon is very drie, and diaged about continually : in hot Countries in Daober, og Pouember : in cold Countries, in februarie oz Barch : foz if you doe not often big about them, they will either be barraine, oz beare naughtie feuit : they mult be provned, cut, and ridde of all encombraunces. Af the tre be ficke, or profper not well, the rote muft be watred with the mother of Dple, mingled with the like quantitie of water, as Didymus in Conftantine faith, og bulleckt Lime minaled with chalke, oz Rosen and Carremult be polozed boon the rotes : you thall gather them in a fayze Day, being found and bulyotted, and bery ripe, and in the wane of the Bone. They are beft kept coffened betwirt two hollow Tiles, well closed on enery fide with Clay : fomelay them onely in day places, where no winde commeth : others kepe them in Chaffe and Wheate, many in Benev: fome in Wine, and maketh the Wine moze pleafant. Democritus biddeth vou beware, that von lay them not nere other fruit, because with the apre they will corrupt them.

To keepe Quinces.

There

There is also made a kinde of Wine of Duinces (being beaten and uzeffed) and a little Honp & Dyle put into it: our Countrimen make of them a precious Conferue, and Darmelade, being cone gealed with long fething, and bopled with Sugar, Mine, and Spices. I will now thew you of the Dedlar, which the Latines TheMedcall Mcfpilus, the Italians Mefpilo, the Spaniards Mcfpero, the lar, Frenchmen Melplier, oz Nefflier, the Dutchmen Melpelen : this Tre is also of the number of Apple tres, and Peare tres : it is planted in like manner as the Quince is : it delighteth in hot places, but well watered, though it doe well enough in cold. Tale haus fone it profper bery well among Dkes, and Wiwdes: for he have fone great Woods of them growing among Dkes, that have værely pælded a great deale of money. Some fay, it is planted of thefcience, in Parch oz Pouember, in a well dounged ground and mellow, to that both the ends be rubbed oner with doung, At is allo let of the flone, but then it is bery long befoze it come to any thing : it is excellently well graffed in the 15 2amble, the the Dirrie, og the Apple. The Dedlars that you meane to kepe, mult be gathered befoze they be ripe : and being luffered to grow byon the Tree, they laft a great part of the Winter : they are allo preferned in fobden Mine, and Mineger, and Mas fer. In Catoes time they were not knowne in Italie. Plinie and others have footen of them : neither is it certaine, whether the old waiters toke them for Seruiffes. Plinic fpeaketh of thee kindes of them : The firft kinde hauing but thee ftones in them. salled therefore Tricoccum : we have at this day two kindes, the one haning here and there prickles, growing in ever 2000 and Thicket, berp foloze afoze it be mellowed, & made foft with froff. and cold of Wainter : the other bauing no prickles at all with a great fruit, which fimeth to be brought hereunto by diligent Wanting and Graffing. The Wood of the wilde Dedlar we bis to make Spokes for Wilhieles of, and the twigs of them ferge for. Carters whips. Pert unto the Dedlar, for neighbourhod fake. we muft fpeake of the Seruille, a high tree with a round berry, oz fathioned like an Egge: wherfoze it is called oua, as Theophraftus Witneffeth, and the fruit Sou, the Latines call it Sorbus, the Italie ans as the Latines, the Spaniards Servall, the Frenchmon Cormic,02 Cormier, the Dutchmen Sporeffelbaum; The fruit growes

112:

in clufters as the Grape doth : the wilde is better then the Gare Den fruit. It delighteth in cold places, and if you plant it in hotte Countries it will ware barraine. It hath no prickles as the Dede lar hath, it groweth of the Bone, the let, the rote, or the fcience. and profvereth in a cold and wet forle boon hilles : it is planted in February and Barch in cold Countties; and hot, in Odober and pouember. It is graffed either bpon his owne flocke, oz on the Quince or Balothome, epther in the focke or thebarke.

THRA. I maruell holn can vou haus Bomegranates here. I pray you thein what order you ble.

MARIVS. Among the firange fruits, there is none compas rable to the Pomegratate (fo called I thinke) becaufe of his romegra- Countrey, Carthage and Africa, where the beft doe grow the tree (as vie fie) is not high, the leafe narrow, s of a bery faire grane, the flowce Durple, and long like a Coffine, the Apple that is com. palled with a thicke rinde, is all full of graines within : it is called of the Grakes eoà or eoià, as well the traas the fruit eox younera xai is rushes, the Domegranate livete and foloze, it is called in Latine Malum Puaicum, and Malum Granatum in Italian Male grano, in Sanifh Granada, in French Pomes de Granad, in Dutch Granatapffel. This Tre onely as the flage and the Uine, the body being clouen, dieth not : the branches are full of prickles as the Gorff is: it loueth both a bot ground, and a hot Countrie, and liketh not watrie places. In fome bot Couns - tries, it groweth wilde in the bulhes : it is planted in the sping time, the rootes being inatred with Boas dung and fale. It is graffed byon his owne flocke, and allo byon other tres, & like wile of the fciences that groiv from the rotes of the olde tree. and though it may be planted funday wayes, yet the beft way is the branches of a cubit in length, imothed with your unife at both the ends, and let flove wife in the ground, with both his endes well fineared with Bogges dung and fale. There is also ano other way of planting it, which is, to take a very fruitfull flocke, which may be brought to the earth, and him after the manner of ther tres they Graffe by infolliation, betwirt the barke and the rinde, and well and closely binde it: after, they let it in the ground. not touching the graffed part, but the parts beneath, annoine sing it with the mother of oyle, and make it falt with cozdes, that

Bates.

that it flip not backe, till the branch be growne. It much deligh. teth (as Democritus faith) in the Dystill, info much as the rots will mete and tangle together with great iop. The fruit will oroin without kernels, if as in the Thine the with being taken out. the fet be coucred with earth, and (when it hath taken) the foring he woyned. There is (as African reporteth) in every Domegras nate a like number of graines, though they differ in bignes, Balill writeth in his Hexam, that the fowre Pomegranate will grow to he fivet, if the body of the transet to the rot be pierced through, and filled by with a fat Bitch tree pin: you thall have them endure a bery great while, it they be first dipped in scaulding water, and taken out quickely, be laide in day fand, oz elfe in fome heave of inheate in the Maddow, till they be insinchled, or elfe fo cource with chaffe, as they touch not one the other. Other lar, it is belt to kope them like Quinces, coursed with platter, og chalke : fog in cold places they are kept without corrupting. The rinde of the Domegranate is called in Latine Malicorium : the flowze of the Barpen Pomegranate, Diofcorides calleth, Kurwov, and of the Ivilde Badascop.

THRA. I heare allo, the Dut-landilh Cytron is here verie sarefully planted.

MARIVS. The Cytron, called alfo the Median, the Perfian, Cytrons, and the Affirian Apple, becaufe it was first brought out of Perfia, a from the Medes:others fay it was firft brought out of Africa into Greece, by Hercules : and therefore Varro calleth it, the Apple of Africa : they are called in Italian Citroni, in Spanily Zidras, in Dutch Geternapffel Pomerancen, in French Citron : thefruit is called in Latine Hipericum, & Aureum malum, the golden Apple, alfo the mariage Apple of lupiter and luno : fuch of them as are vellow, + of a golden colour, they commonly call Dranges : fuch as are of a granin pale vellow, they call Cotrols, or Citruls : thole that are long fashioned like an Egge, if they be pellow, are called Citrons, if they be grane, Limons : if they be bery great and round like Dompeons, they call them Domciezons : the tro ooth alwaies beare fruit, fome falling, fome rive, + fome freinging: nature the wing in them a wonderfull fertilitie, as in the trees that Homer deferibeth in the Dathards of Alcinous, I be leade is like the 15av leafe, fauing that there grow prickles among it them : the

the fruit is vellow, winchled without, finget in fauour, and foince in talke : the kernels like the kernels of a Peare, a great reuffer of ventons. The Trie is planted (as Palladius faith) foure manner of maies, Dfthe Bernell, the Science, the Branch. and the Stocke. If you will fet the kernell, pon muft diage the earth two fote every way, and mingle it with affecs : you muff make thost beds, that they may be watted with gutters on every fide: In these beds you must oven the earth with your hands a hand breath, and let their kernels together, with the tops downer loard, and being coucred, water them every day; and when they foring, leave no wedes nere them : they will fpring the foner. if you water them with warme water : others lay it is belt the grains being taken out in the found, to fet them diligently in god mellowed furrowes, and to water them every fourth or fift day : and when they begin to grow, to removue them againe in the Spring, to a gentle and a movit ground.for it belighteth in much fuet : if you fet the branch, you must not fet it aboue a fote and a halfe in the ground, left it rot. The fcience and the ftocke, Palladius thinketh it better to be planted, and theweth which way. Fang man meane to cherifh this tree, let him befend it well from the Porth, and fet it toward the South, and the Sunne, in the . Winter in frailes and baskets: inherefore fome that are earefull and diligent in the tendering of this trie. to make little baults to. ward the South clofe coursed : and within them, niere the wall, they plant the Dzenge. fuffering the bauits all Summer to lie o. pen to the Sunne, and to have the heat thereof : and as some as Winter comes, they couer them Graight with Braw, or mattes, forcially with the falks of gourds. This tre delighteth to be con. finually digged about : they are graffed in hot places in Apeill.in cold Countries in Day, not bnder the barke, but cleaning to the Rockehard by the rote: they may be graffed both on the Beare fre.and the Bulberic : but when they are graffed, muft be fences either with a wicker basket, og fome earthen beffell. The fruit mill be fwet, if the kernels be fteped in water fodde with honer, or which is better in Shapes milke. Such as you meane to keve muft be gathered in thenight, the Done being downe, and gathered with branches and all, as they hang. Where the fruit burdneth the Tre, you muft pull them off, and leave but few

9(1

on it, which will be the pleafanter, and the kindlier fruit. It is at this day nourilied both in Germanie and France, and is plans ted in beffels full of carth, and us bot weather is let abroad in the Summe : in cold weather fet in Sellars. or in hot houfes. I have fone in Germanie, certaine bot-houles, of purpole made of firre baides that in Minter haue warmed all the Barben, & in Some mer the frames taken alway, haue afuen place to the Sunne. If inhile they be pound and little they be out into carthen bellels.oz glaffe, they grow according to the proportion thereof: to that you may have them fallioned either like a man or like a beak. accors Ding to your fancie: but you must fo ozder your moulds, as the aire may come to them. But left & hive you to long with thefe out? landift Tras I will fpeake fomething of our owne tras, where with we are better acquainted. Among which we have the Buls The Mulberp, in Latine Moros, in Italian Moro, in Spanilly Mora, in bery tree. French Meure, in Dutch Mulbern: this is accounted of all other tres the wilch. Vocaule he neuer bloffometh til all colo weather be quite pall: to that whenfocuer you for the Mulbery begin to fusing you may be fure that Winter is at an end : he is rive with the first, and baddeth out to haltiny, as in one night with a noile be thauffethout his leaues : they die the hands (as Plinie faith, with the faice of the rive berrie, a wall it of with the greene berrie: he changeth his colour thrife, firft white, then red, and laftly black the loueth hot places, and grauelly, and belights in digging and builds ing, but not in watering : his rotes muft be evenedabout Das, ber, and the Las of Wine powerd byon them : if is lette of the fones, but thinne : it often groweth to be wilde: the beft planting is the science, and the tops, a forte and a halfelong, finoth at both endes, and rubbed over with dung. The place wherein pou fet your Sets, they cover with Athes mingled with carth, but cover it not aboue foure fingers thicke. Palladius bits you to fet it in Parch, and to remoueitin Dabber; or Conember! Deritius tels leth, that the Bulberie map be planted in the fall of the leafe, by thruffing into the ground the branches, after the order of the fig trie, which I my felfe have proved, specially, if the end that is cut be well bauifed, that it may the quicklier take rote : and fo when you have made your hole with a fake, thauft it in : it is bell graffed on the Bach, & the white Poplar, either by graffing.

me :

in the flocke, or by inoculation : and fo thall the berries be white. It is graffed alfo in the Fig, a the Elme, which in old time they would not fuffer, for feare of corrupting. Of the Pulberie is made a very noble medicine for the flomacke, and for the gont: they will longest induce (as it is faid) kept in glass. The leaves do ferue to face Silke-wermes withall, whereof fome make a very great gaine, and fet them rather for that purpose then for the feuit.

T HR A. What tree is that with the ruddie coloured fruit, that is like a Cherrie:

The Cornell, MARIVS. It is a Cornell trie, called in Latine Cornus, in Italian Corneolo, in Spanish Zereko schuestro, in French Cornier, in Dutch Cornelbaum: this trie is thought neuer to eread twelue cubits in height: the body is found and thicke, like home: the lease is like an almond lease, but fatter: the flowse and the fruit is like the Oliue, with many beries hanging open one falke, first white, and after red: the inyce of the ripe berries, is of a bloudy colour: it loueth both Pountaines and Tallics, and proscipereth both in moyfi ground and drie: it groweth both of the flippe, and of the science. Pour must beware you plant it not neare to your Bies, for the flowse both kill as many of them as tafieth if.

Ziziphus.

THRA. What Tre is the lame that growethnert bs ?

MARIVS. That Treis called Ziziphus, in Italian Guiggiole, in Spanith Azofeilo, in French Iniuba, in Dutch Burebyrle, the beries whereof, are like the Cornel berries, the flowre like the Dlive flowse, but moze fweter. Columella fpeaketh of two kindes thereof, the one red, the other white : they are let of the fones, in hot Countries, in Aprill, and in cold places in Day. oz elle in June : you may let both the frone, and the branch : it is very flow in growing : if you fet the plant, you must doe it in Barch in foft around : but if you fet the ftone, you muft fet them in a little trench of a hand broad, three fromes together, with their voints downeinard. It loueth not to rich a ground, but rather a light ground, and a warme place. In Winter (as Palladius faith) it is good to lay fones about the body of the Tre. The nert are Italian Filberts, in Latine Pillacea, in Italian Pillinachi, in Spanift Alhozigo, in French Piltaches, in Dutch Welfce pimpernus : the leafe is narrow and browne : for byon the branches hang

Italian Filbert.

89

hang the Puts, like the Puts of the Dine. Df this fræ it is thought there is both male and female, and therefore they grow commonly together, the male having buderneath his theli, as it were, long frones: It is graffed about the first of Apeill, but bus on his ofone flocke, and byon the Terebinth, and the Almond Tre, they are alfo fet (as Palladius witheffeth) in the fall of the leafe in Daober, both of the flips, and the put. It delighteth in a hot and a movit countrie, and loves in often watring.

THRA. Becaule I remember you tolde me before, that of Wlants and Tres, fome doe grow of the fed, or fruit, and fome are Graffed : and becaule I have heard the Braffing of molt of them. I would note faine heare you speake of such Tries as grow onely of the ftone, oz berrie.

MARIVS. Dour remembrance is god: for though they commonly grow better when they be graffes, pet fome there be that prosper the better being fowen, and will fcarce grow any os ther way. And though fome of the fozefaid Tres being let. Doe well prosper, as the Dedlar, the Cornell, and divers other, yet fometimes they ware wilde, and are long before they come to perfection, which Virgill also affirmeth :

For that fame Tree that of the feed, the ftone or berrie growes, Doth flowly fpring, and long it is, ere any fruit he fhewes : And when it comes, it proueth wilde, and doth degenerate, And loseth that fame relish fweet, that longeth to his state.

But by Graffing it is reftozed againe : Some of them againe, how foeuer they be fowen or fet. Doe not degenerate or grow out of kinde, as the Bay, the Date, the Typzelle, the Deach, the Abie cot, the Damfon, the Pittace, the Firre Tre, and the Therrie : and because they be not all of one order, I will tell you scuerally of the chiefelt of them. To plant Tres of the fede, Pature (as I fapo befoze) taught men at the first : the fiede being deuoured of Birds, and with the doung let fall in the clefts of Tries, where they after sprong and grew.

The Bay, in Latine Laurus, in all other tongues almost as in The Bay. Latine. The berry is called in Latine Lauri Bacce, in Italian Bacche de Lauro, in Spanith Vaya de laurell, in Dutch Lorboren, a molt gratefull Tre to the houle, a poster to Emperours and 15ilhovs.

Bilhous, which chiefely garnifieth the houle, and fandeth als maves at the entrie. Cato maketh tivo kindes thereof, the Delphick and Cypretle : the Delphick, equally coloured and ariener. with great berries, in colour betwirt greene and red, where with the Conguerours at Delphos were mont to be crowned. The Covelle Bay hath a Moster leafe, and a darker grene, guttered (as it were) round about the edges, which some (as Plinie fauth) suppose to be a wilde kinde: it groweth alwayes grane. and beareth berries, hee thoteth out his branches from the fides and therefore wareth fome old and rotten : it doth not bery fuell away with cold ground, being hot of nature : it is planted divers waies, the berries being daped with the porth winde, are gathes red and lavd abroad bery thinne, left they cluffer together, aftere ward being wet with Urine, they are let in furrolves a handfull deve, and bery nere together : in Barch they be allo planted of the flip, and the science. If you set them of the flip, you muff fet them not palling nine fot alunder: but to they grow out of kind. Somethink, that they may be graffed one in another, as also boon Seruille & the Albe: the berrics are to be gathered about the bes ginning of December , and to be fet in the beginning of Darch ... Nut trees. But tres are commonly planted of the But, as all other thellfruits are. Of all Quts. the Almond is counted to be the worthieff. mond tree. called in Stalian Mandorle, in Spanify Almeidras, in French Amandes. in Dutch Mandeles : they are fet in february, & profver ina clere and hot ground, in a fat and a movit ground they will grow barren: they chiefely fet fuch as are croked, and the yong plants: they are let both of the Blips, the Rot, & the kernell. The Buts that you intend to fet, muft be laide a day before in foft dung : others fleve them in water fodde with honey, letting them lye therein but onely one night, least the Marynelle of the honey spople the Plant : and being thus ordered, Columella faith, thep will be both the pleafanter, and grow the better. The tops and the charpe ends you mult let bowne ward : for from thence coms meth the rote, the edge muit fand toward the forth : pou muf fet their of them in a Triangle, a handfull one from the other : they must be watred enery ten dates, till they grow to be great : It is also planted with the branches, taken from the midit of the frie. The Almond is graffed not niere the top of the flocke, but abaut

The Al-

90

about the midit, upon the bowes that grow out. This Tre doth fone beare fruit, and flowzeth befoze all others, in Fanuary, oz February, Virgill accounts it for a Brognofficatour of the viene tifulnelle of Tozne.

When thicke the Nut Tree flowres amidde the wood.

That all the branches laden bend withall :

And that they prosper well and come to good.

That yeere befure, of Corne shall plenty fall.

The bitter ones (ivhich are the wholefomer) are made fivet, if round about the Tre, foure fingers from the roote, you make Alittle trench, by which he mall fiveat out his bitterneffe: oz elfe if you open the rootes, and powe thereon epther Urine. oz Hogs dung: of if at the rote of the Tree, you thruft in a fat wedge of Witch Tree. 15p this meanes (as Bafill fayth) they will loofe their bitterneffe : but no Ere groweth foner out of kinde , and therefore pon muft often remoue it, or graffe when it is great.

Walnuts, called in Latine Inglantes, in Italian Nocy, in Spar Walnuts? nil Nuzes, in French Noix, in Dutch Groille nulz : they are let in the ground (as Plinic fayth) the feame downeward, about the beginning of Parch: fome thinke, that they will grow as the File bert doth, either of the flippe, og the roote : it groineth fpædily, and liketh a drie and cold place better then a hot. The Aut that you meane to let, will grow the better, if you fuffer it to lye foure or fine daves before in the water of a boy, and will prosper the moze, if it be often removed: those puts (asit is thought) profe per beft, that are let fall by Crowes, and other birds. If you pierce the Trie through with an Augur, and fill by the place againe with a pin of Elme, the Trie thall lofe his knottie hardnette, neis ther will he lole his fruit, if you hang by either Mallet, oz a piece of Skarlet from a dunghill.

THRA. What is the reason you plant your Walnut tras round about on the outfide of your Dichard, and not among your other Tries ?

MARIVS. Because his thadow is great, and bnivholes fome, belide the hurt he doth with his dropping. He lucketh out a great deale of god inves from the ground : for as you lie, they are very mightie and high Tres, fo as fome of them are two sz their fadome about : they occupie a great deale of rome with their fanding,

fanding, and beguile the other Tres of their fuffenance : 13e fides, there are certaine Tres they agree not well withall, and therefore have I fet them on the outlide of my Dichard as frane Dards to defend their fellowes from tempeft & weather. Among Buts, is allo to be recounted the Balell Buts, a kinde whereof Hafell Nuts. is the Filbert, called in Latine Auellanz, in Italian Nociuole, in Spanith Auellamas, in French Novfette, in Dutch Hafelnuzes : Filberts. they are planted after the manner of the Almond: it delighteth in clay and watrify grounds, and byon Bils, being well able to abide the colde. They were first brought into Alia, and Greece, from Pontus, and therefore called Pontice and Heracliotice, &c. Among Chefinuts the Puttes allo chalengeth the Chefinut his place, though he be rather to be reckened among Baffe, wherby he is called the But 02 Dafte of lupiter, in Latine Caltanea, in Italian Caltagne, in Spanifh Caltana in French Caltagnes, in Dutch Kaltey:it loueth well to grow on Mountaines, and in colde Countries : it hateth waters, and defire th a cleane and a god mould : it milikety not a moult grauell ground, and joveth in a Chadowie and Portherly bancke, it hateth a fliffe and a red clay ground: it is planted both of the Out, and is let : it is better planting Woods of them, of the faut, then of the fet, otherwife the fafer way were the fet, which in two pieces beareth fruit. It is planted when the Sunne is in the Equinoctiall, both of the fcience, the fet, the branch, and the rote, as the Olive is. The Cheffinuts that you meane to fowe, must be very faire and rive, the newer they be the better they grow. Dou muft not fet them after that fort that you fet Almonds, or Filberts, but with the Marpe end bpluard, and a fot a funder : the furrow muft be a chaftman deepe. Dou were bete ter (as I land) to make your Groue of the But, then of the fets. which will be mate to be felled for ftaves in fcauen vare. Columella, writeth, that the Cheffnut, mit for the supporting of Tines, if hebe fowed in well digged ground, both quickly fpzing, and being felled after five vieres, it profvereth like the Willow : and being ent out in ftapes, it laffeth till the next felling, as fhall be flewed hereafter, when we fucake of Wots. They will alfo haue the Cheffnut to be graffed on the Walnut, the Bech, and the Dake : it hath beine fiene, that where they grow two and two together, they prosper the better.

91

The Dine in Latine Pinus, in Italian and Spanifh Pino, in french Pin, in Dutch Harrzbaum, is planted not much bulike to the Almond, the Bernels of the Beite-clockes being let as the Almono is : they are gathered in July, before the Canculer windes and crethe Buts, the bulse being broken, fall out, The belt time of fowing them, Palladius reckoneth to be Daober. and Pouember : this Trie is thought to be a nourilier of all that is folven under it. The Ditch tre is called in Latine Picca. in Italian Pezzo, in Spanich Pino negro, in Dutch Rotdannenbaum : but I come now to the Cherie. The Chery tree, The Chein Italian, the Tre Ceralo, the fruit Cerale, and Ciregic, in Spar nilh Cerezo, and Cereza, in French Cerilier, and Cerile in Dutch Kirsbaum, Kerlen : the Tre is ealie to be planted, if the ftones be but call abroad, they will grow with great encrease : such is their forwardneffe in growing, that the flaves or fupporters of Alines, being made of Therrie tre, are commonly fiene to grow to be Trees. They are graffed byon the Plome Tre, byon his olone Rocke, boon the Plane Trie, and on the Bramble, but belt byon the wilde Cherie, it iopeth in being graffed, and beas reth better fruit : if vou graffe them byon the Une, pour Tre thall beare in the Spring : thetime of graffing, is epther when there is no Bamme bpon them, or when the Bamme hath left running. They remove the wilde plant, either in Daober or Douember, that the firft of January oz February, when it hath taken roote, it may be graffed bpon. Martiall would have you graffe it in the focke : but indied it profpereth better, being graf. fed betwirt the barke and the wood. It delighteth to be fet in Diepe trenches, to have roome enough, and to be often digged as bout. It loueth to haue the withered bow continually cut away: it groweth beft in colde places, and to hateth dung as if it be layd about them, they grow to bee inilee : it is also planted of the flips, and will beare his fruit without fones : if in the fetting of the fet you turne the opper end downeward. Dthers will that the træ being yong and two foothigh, be flit dolune to the woot, and the pith taken out of both fides, and topned together, the feames close bound about, and couered with doung : which with. in a piereafter, when it is well growen, the vong graffes (which hitherto have bome no fruit) if you graffe them , will beare 99 3 Therics

Cheries without froncs, as Martiall fauth. There are funs Dep kindes of Theries (as Plinic reposteth, or Apronianus) that are redort then the reft, Actianus, as blacke as a cole: which kind in Cermanie vet at this day they call Acklifche kirlen. Celicians. that are round. Plinie in freaking of the fundap forts, preferreth the Duracins, which in Campania they were wented to call Plinians: and a little after he faith, byon the bankes of the Rhine, there grow allo Kerlis, of colour betwirt blacke, red, and greene, like the Juniver beries when they be almost rive : in which the common fort of bokes have Tertius for Kerlis amongft the Ber, manes : for Plinie, whereas in many places hee blurveth the Dutch worts, as in the 9. 10. 17. and 18. booke, and in divers other places, which being not buderflod iof the Latines, came altogether corrupted to the posteritie. There are also 15ap Ches ries, graffed at the first in the Bay, and have a veety pleafant bitternelle : at this day, the finall Cheries are belt effemed, growing boon a low bulk with foost falkes, round fruit, and berp red, much meat, loft, and full of licour. It is faid they will beare berptimely, if you lay Lime about them : it is goo to gas ther them often, that they which yeu leave may wave the greater: for letting and planting of Cheries, you may reade a arcat fort of rules in the gatherings of Constantine. There are also found a kinde of Cherries arowing wide in the Woods, and Bedges rowes, with little beries, fome redde, fome altegether blacke, which the Farmers in the Countrey doe ble for to fatte their Hogs withall. The Blome tre in Grake nonnumdoc, the fruit HOKHUMAA, in Latine Prunus and Pruna, in Italian Prune and Succiui, in Spania Ciruelo, and Ciruela, in French Prune, in Dutch Proumen, it is planted from the middle of Winter, till the Floes of February : but if you let the flones at the fall of the leafe, let it be done in geuember, in a god and mellow ground. tivo handfuls depe : they may be like wife fet in february, but then they must be freped in lpe their dayes, that they may fener foring : they are allo planted of the young fets that groin from the bedy of the tree, evther in January, og in the beginning of fes bauary, the rotes being wel courred with dung: they profper beft in a rich and a moyf ground, and in a colde Countrep : they are graffed toward the end of Parch, and better in the clouen focke,

Plome srees.

92

then in the barke, or elle in January, before the Summe begin to drop out : it is Graffed byon his owne flocke, the Weach and the Almond. There are funder forts of Plontes, whereof the Damfon is the vincivall, ioping in a dip ground, & in a hot cound trep, and is graffed as the other Plomes are. There are divers coloured Blomes, white, blacke, purple, and red: Wheat Blomes, and Houle Plomes, where with they ble to fat Hogs, The finger Plames are most commended, being of length, amans finger. which are brought buto bs from Bohemia and Hungarie, and lulians, and Noberdians, being blein in colour, but later. The Dany fons are dried in the Sunne byon Lattifes, Leads, or in an Duen. fome dae din them before, either in fea water, or in 15 rine, and after dzie them. The Weach tre, called in Latine Perfica, in The Italian Perfeo, in Spanith Duraluo, they are allo called Rhodo-Peach cina, and Dorocina, or Duracina, whereof there are foure kindes: Trees but the chiefeft are the Duracins, and the Abzicots : in fourme ber in hot Countries, and in others in January, the fones are to-be fet two fot alunder in well deeffed-ground , that when the. poung trees are forong by, they may be remoued : but in the fete ting you mult let the charpe end downelvard, and let them fand two or three fingers in the ground : where focuer they grow, they reiopce molt in watry grounds, which ground if you want, loke that you water them abundantly, fo thall you have great fore of fruit. Some would have them let in hot countries, and landy ground: whereby they fay, their fruit will longer endure: the bets ter will allo the fruit be, if as some as you have eaten them, you fet the fione, with some part of the fruit cleaning to it : it is graf. fed either on himfelfe, the Almond, oz the Plometrie. The Apples of Armenia, oz Absteat, both farre ercell the Beach, bled The Abrias a great daintie among poblemen, and much defired of the cous. ficke: they are beft graffed in the Plome, as the Deach in the Ale mond trie: the faireft graffes that grow next the body of the trie are to beechofen and graffed in January, oz Februarie, in cold countries, and in Pouember in hot : for if you take those that grow in the top, they will eyther not grow, or if they grow, not long endure. Pou Gall inoculate, oz imbudthem in Apzill oz Apav, the flocke being cut aloft, and many young buddes fet in : nets ther mult you lufter them to fand bery farre one from the other, that

that they may the better defend themselves from the heat of the Sunne. The Frenchmen, and our Garoners, allo, after the Ita lians seder, doe graffe the Abricot, taking a graft (not full a finger long) or the bud that is well that out, with a little of the rmd cut off, and Ritting the rind of a yong Plome trie croffc wife they for them in builting them wellabout with Bempe, oz Towe. and that in the end of June.or in July.and Auguft. Some thinke thep will be rid, if they be either graffed in the Plane tree, 02. haur Roles let buderneath them : they will allo bec faured, oz written in, if feauen dayes after that you have fet the ftone, when it beginneth to oven, you take out the kernell and with Hermis lion . or any other colour you may counterfeit what you will after the fione closed by about it, and couered with Clay, og Boggis bung you fet it in the ground. Againe, you thall have them with. out flones, if you pierce the Trie thosely, and fill it by with a pinne of Willow, oz Coznell tree, the pith being had out : the. Rootes of the Ere muft be cut and decled in the fall of the leafe. and dounged with his owne leaves : you thall also at this time provue them, and ridde them of all rotten and dead beings. If the Erappolper not, power boon the rootes the Las of old . Wine mingled with water. Againft the heat of the Sunne. heave by the earth about them, water it in the evening, and thas dolu them as well as you may. Againft the frofts, lay on bung enough, or the Las of Wine medled with water, or water wherein Beancy have beene fodden : if it be burt with wormes. oz fich baggage, powes on it the Usine of Dren medled with a third part of Minegar.

The Date.

The Date we, in Italian, in Latine, and in Spanish Palma, in French Arbor de Dates, in Dutch Dackelenbaum: the fruit in Latine Palmulæ, in Italian Datch, in Spanish Daniles, in French Dattes, in Dutch Dackelem, it groweth in a mild grauelly ground, and belighteth in a watry foyle: a though it describe have water all the 1 wrelong. yet in adap ywre it beares the better : theres fore fome thinke that dung is hurtful whto it. About the RiverNilus a in the Tall parts, it groweth plenteeusly, where as they wie to make both Waine and Bread of it: this Træin Europe (for the most part) is barren, theugh it be planted of many for nonelty fake. The Cours of Dates are planted in trenches of a cubit in depth and

and breadth, the trench filled by againe with any manner of dung, ercept Goates dung : then in the middeft of the heape fet pour Rones to as the tharper part fand byward : others would have it fand toward the Caa : and after when firft they have fprinch. led thereon a little Salt, they couer them with earth, well med, led with dung : and every day while it fpringeth, they water it : some remoue it after a pieres growth, other let it grow till it be great. Dozeouer, becaufe it delighteth in falt ground, the rotes muft be dreffed every piere, and falt throwne byon them : and fo will it quickly grow to be a great Trie. The Sets are not pres Sently to be put in the ground; but first to be fet in earthen Pots, and when they have taken rote, to be remoued. Date Tras have such a delight one in the other, that they bend themsclues to touch together, and if they grow alone, they ware barraine. They are planted (as Plinic faith) of the branches, two Cubites long, growing from the top of the Tree : allo of the flips and flip uers. The faine Plinic affirmeth, that about Babylon, the berg leafe (if it be fct) doth grow:

T H R A. Fremember you tolome once, the Spring and Sci. ence that groweth out of the rotes of some Trees, will very well be planted.

MARIVS. I told pou before that divers of the Tres where. of I fpake, might be planted of the branches, and of the Scient ces, having fome part of the Rote plucked by with them : and lo I faid the Cherrie might be planted, as allo the Balcil, the Laus rell, the Myztell, and the Medlar : likewife the faireft branches fipped off, and the ends a little bruiled, and thruft into the ground, commonly doe grow to be Tres, as Imp felfe haue tried both in the Bulbery, the Pearestrie, and the Applestrie. Dne thing I Inill adde belide, that the Tres that beare fruit over halfing, doe sither neuer come to their iuft bignelle, og the fruit that they beare , both neuer long endure : whereof 3 thinks fp2ang firft that law of Moifes, that fruit Tres thould for three veres be couns ted bacircumcifed, and their fore faimes with their fruit, fould be circumcifed : that is, the burgens and blottomes thould be plucked off, leaft he fyuld beare befoze his time, og fuhen he hath bezne, lofe his fruit : but I kiepe you to long in the defcribing of my Dichard.

THR As ..

THRA. Dno, Jrather (whileft J heare you) imagine my felfe to be amongst them, planting and biewing of their fruits : but now remaineth that in flead of a conclusion to your talke, you declare the order of prefering them, to that end specially, that those things that are appointed for remedy (being not duely, or in time administred : benot rather a hurt) then a helpe.

MARIVS. Dour motion is and : Firft therefore, and genes rally, dunging and watring is nædfull for fruit Eras, a berpfein ercepted : and herein bede muff be taken, that you doe it not in the heate of the Sunne, and that it be neither to new, noz to old : neither muff it be laite close to the fote of the Tro, but a little diffance of, that the fatnelle of the dung map be dunke in of the rote. Bigeons dung, and Bogges dung, doe allo heale the hurts or wounds of Tres. The water wherewith we water them, muff not be Fountaine mater , oz Well water , if other may be had , but drawne from fome muddle Lake , or franding Bole. Bozeouer, von mult take bode, as Fallo told von befoze) inhen we began to talke of planting of an Dechard) that your Tres fand a god diffance a funder, that when they are growne by, they maphaue come enough to spread, and that the finall and tens der, be not hurt of the greater neither by haddow, not drovving. Some would have Bomegranate Tras, and Byztels, and Baies, fet as thicke together as may be, not palling nine fote a funder : and likewife Cherry tras, Plumb tras, Quinces, Apple tres, and Beare tres, thirtie fote and more a funder : every fort muft fand by themfelues, that (as I faid) the weaker be not hurt of the greater. The nature of the Sople, is herein moft to be regarded : for the Bill requireth to have them fand nerer together, in windy places you mut let them the thicker. The Dlive (as Caro faith) would have five # twenty fot diffance at the leaft. Dou muft let your plants in luch lost as the tops be net hurt. oz bzuiled. noz the barke, oz rinde flahred off: foz the barke being taken away round about, killeth any kinde of Erie. Dou muft alfo have a regard of the Maddow, what tras helveth, and inhat tres it hurteth. The Walnut tre, the Dine tre, the Dytch trie, and the Firre trie, whatlosuce they thaddow, they poplon. The haddow of the Walnut trie, and the Dakets burtfull to Come: the Walnut tre with his thad ow alfo, is burtfull to mens heads.

Shadow of Trees.

heads, and to all things that is planted niere it. The pline trie with his thadow likewife detropeth young Plants, but they both refift the winde, and therefore and to enclose Minepards. The Cypreffe, his thadoly is very finall, and fpreadeth not farre. The thadolo of the Figge trie is gentle, though it forcad farre, and therefore it may fafely enough grow amongt Tlines. The Elms tree, his thadow is also milde, nourithing whatfoeuer it couereth. The Plane tre though it be thicke and groffe, is pleasant. The Doular hath none, by the reason of the mauering of his leaues. The Alber tree hath a thicke thadolu, but nourithing to his neighbours. The Aines is fufficient for himfelfe , and the mouing of his leafe, and often Making, tempereth the heate of the Sunne, and in great raine well concreth it felfe. The thadow of all thole, Dropping is commonly milde and gentle that have long Kalkes: the dropping of Trees. of all Træs is nought, but worft of all those, whose branches grow to as the water cannot readily paffe through : for the drops of the Dine, the Dake, and the Datholme, are moft hurtfull, in whole convany you may also take the Walnut : the Cyprelle (as Pliniefaith) hurteth not. Dozeouer. vzopning and cutting, is bery Proyning. and and necellary for tries, whereby the dead & withered boughes are cut away, and the unusofitable branches taken off: but to proine them cuery viere is naught, though the Ains requireth cufting cuery pare : and enery other pare. the Byztill, the Pomes granate, and the Dline, whereby they will the faner beare fruit : the others muft be the feldomer propned. Dline tres muft be proyned in the fall of the leafe, after the fetting of the feauen farres : and first, they must be well dunged, as a belpe against their hurts. Dou muft cut away all the old rotten branches that grow in the middeff, and fuch as grow thicke, and are fangled to: gether, and all the water boughes, and burrofitable branches as bout them : the olde ones are to be sut close to the flocke, from subence the new springs will artife. Scarifying allo or launcing, is Scarifyingbery wholfome for the trees, when they are fereined with their leaues, e drineffe of their barkes : at which time we ble to launce the backe with a charpe buife, suffing it thraight downe in many places : which, what god it both , appeareth by the opening and gaving of the rinde, which is Graight spaces filled by with the bos by buderneath. You malt allo trim and dreffe the rotes of your Tras:

tion.

Remoaing.

Ablaquea- Tres after this fort : Dou muft open the ground round about them, that they may be comforted with the warmth of the Sunne. and the raine, cutting alway all the rotes that runne boward. The tres that you remove, mult be marked which way they find at the firft : for fa teacheth Virgill :

And in the barke they fet a figne.

To know which way the Tree did grow:

Which part did to the South encline.

And where the Northerne blaftes did blow.

Allo you muft confider well the nature of the Sople, that you remoue out of a drie ground, into a mopil, and frem a barraine hill, to a moif Blaine, and rather fatte, then other fulle. The young plants being thus removed, mult in the fecond or third pere be propned , leauing fill about thic or foure branches bus touched, to thall they the better grow : thus mult you blually doe sucrie other være. The old fræ we remoue with the tops cut off. and the rotes unverified, which muft be helved with often dungs ing and watering. Applestres that blollome and beare no fruit. oz if it beare, they fodainly fall away, you thall remedie by flitting of the rote, and thruffing in of a ftone, or a wooden wedge. Allo if you water your Trees with Maine that is olde, it greatly quais leth (as they fay) both for the fruitfulneffe, and pleafantneffe of the fruit. If the Tre occap by reason of the great heate of the trees beare Sunne, you muft raile the earth about it, and water the rotes euery night, fetting by fome befence againft the Sunne. To their truit, caule their fruit to be quickly ripe, you muft wet the little rotes with Minegar, and Maine that is olde, couering them againe with

When not, or hold net 2 remedie.

carth, and oft Digging about them. The Usine of men, if it be kept this of foure moneths, both wonderfull much god to plants, which if you ble about Times, or Apple tras, it doth not onely bring you great encrease, but also giveth an excellent talk and fas uour both to the fruit and the wine : you may allo ble the mother of ople, such as is without falt, to the same purpose, which both muft fvædilv be bled in Winter.

THR A. Wele fie that frofts and mifts, doe oftentimes great harme to Tres, haue von any remedy againft it ?

MARIVS. Against frosts and milts, you mult lay by-round about your Dechard, little Faggots made of falkes, rotten bowcs.

bonghes, og Araw, which when the froffs, og mills arile, may be hindled, the imoake whereof anoydeth the danger. Pou must fraue allo dgie dung amongk your Mines, which when the froft is great, you may let a fire : the imoake whereof disperseth the froft.

THRA. What if the Tres be ficke, and profper not ?

MARIVS. When they have any fickness, they ble to polyze byon the Rotes the Las of Aline mingled with water, and to fow Lupines round about them. The water allo wherein Lupines have beine fod, powyed round about, is very god (as Plinic faith) for Apple trees.

THRA. Tres are oftentimes allo burt with wormes.

MARIVS. If your Tres be troubled with wormes, there are divers remedics, for the inver of Mormeluod deftroyeth the Caterpillers. The fedes oz graine, that are fleped in the iupce of Sengrane, oz Boulelake, are allo lafe from any wormes : allo Albes mingled with the mother of Dyle, oz the fale of an Dre, medled with a third part of Unegar. Dozeouer, they fay, that the Tres that are imoaked with Bzimftone, oz Lime, are fafe from hurtfull bermine: Galbanum like mile burnt bpon the coales, driveth them away. The blades also of Garlicke, the heads bes ing off, fo buent (as the finoake may paffe through the Dychard) both deftroy the Catervillers : fome mingle Sote with the fieds. and sprinckle them with mater. Democritus writeth, that a wos man in her bucleaneneffe, bugirt, and her haire hanging about her thoulders, if the goe bare-fote round about the place, the Cas terpillers will prefently fall : but perhaps I trouble you with this tedious, or long difcourfe of Pearbs, Plants, and Tres, and therefore though there be much more to be spoken of , least 3. thould forme to ouer wearie pou. I will make an end.

T H R A. A trouble ? no, you have done me a fingular great pleasure, in declaring onto me the right ordering of a Barden, and an Drchard, which not throughly entreated of by others, you have briefely, and perfectly, to our great commodifie described. And whereas you have largely spoken of our Trees at home, it remaines the for you to say something of the disposing of Mods. It was my chaunce to pass petterday, by a great Wood of Dakes, and Coppille, planted in very god order, and hard by, a Will ow Stone.

Gzoue byon the fide of a Kiver, ercellently well ozdered, where the Fields were enclosed round about with great Elmes, which greatly beautifieth your dwelling, and yield (I warrant) no finall profit : I therefore greatly defire to heare fomething of this part of hulbandzie.

MARIVS. Though it be without my conchant, and that you demaund moze then J promiled, yet fince you force me, J will not refule it, leaft you thould thinke J would faile you in any Of Woods thing. As touching Uwds, Ancus Martius (as Perrus Crinitus writeth) was the first in Kome that ever dealt in them: the olde Father had alwaics a speciall regard of Uwds, wherefore Virgill faith:

If that of Woods I frame my Song, Woods vnto Princes doe belong : If that of Woods I lift to fing, Woods may full well befeeme a King.

It was ordained by the Romanes, that the Confuls thousd have the charge of the Woods, that there thould no Tymber be wanting for building of Boules, and Ships, and other Tymber. fvorkes, both publique, and private. The fate of Venice at this day, obseructh the same order, pointing a private Dfficer for their Winds, who hath in charge as well to la to the parely planting of them, as to let that there be wanting no Tumber.foz their necessarie bles. The Was that you told me you palled by. is of Dakes, 15 ches, and other Balt tres: fome part feruing for Tymber, and other for felvell. Df thefe therefore will 3 firft begin to speake, and then of Olive Groves, and Willowes, fome of them be wilde, and grow of them felues not needing any loking to, but fuch, as daily erverience theines, are nothing fo and, as those that are planted. Woods, and Forrefts, doe chiefely come fift of Dake, Bich, Fpare tre, Byache, Dine, Ditch tre, Baff. holme, Corke, wilde Dlive, Dedlar, Crabitre, Juniper, Core nell, and Porrie : other Wands have other tres, according to the nature of the ground. The great Tand of Hartelivald in Ger. manie, as it runneth through divers Countries, beareth in fome place onely Dake, in others Bach, in others fryres. The Forreft of Arderne foz the molt part beareth Dake : Montificello, Larth, Frare, Comell. and Tamarice, Monte D.S. Gothardo, great

of the ordering of Orchards.

96

areat aboundance of Chefinut tres. Thele wilder fort, though they grow of themfelues, may yet well be planted, if you have mote ground of the Acome, and the Berry : each of them liketh tome one kinde of ground better then another, as firft Theophrafus, and after Plinie hath Declared. In the mountaines Delighteth the Fyretrie, the Cedar, the Larth, the Ditch trie, and fuch as beare Kofine : as alfo the Hoime, the Derebinth, the Cheffnut, the Maltholme, the Date, the Biech, the Juniver, the Cornell, and the Dogge tre: though fome of thefe alfo voolver well es nough in the plaine. The fyre, the Dake, the Thefinst, the Forrebich, the Baltholme, and the Cornell, grow as well in the Halley, as on the Mountaine: byon the Plaines you Chall have the Tamarir, the Clime, the Doplar, the Willow, the Bafell, the Walnut, the Homebcame, the Maple, the Albe, and the Bach. Pou fhall not lightly for the Plumb tra, the Apple, the wilde D. line, not the Walnut, upon the Dountaine, all fuch as grow as well in the Plaine, as byon the Dountaine, are larger, and fairer to the eve, growing in the Plaine, but are better for Tymber, and fruit, byon the Dountaine, ercept the Deare, and the Ap. ple, (as Theophraftus faith.) In Darrif ground delighteth the Willow, the Alder, the Poplar, and the Princy. And although the most Woodes doe fpring of their owne nature and accord, vet are they by planting, labour, and diligence, brought to be a areat deale more favre and fruitfull : for, as afore I told you how fruit tres are nourified and brought by in Jupe Gardens; fo are thefe wilde and fruitleffe tris fet and planted for Timber and Fewell. We that is disposed to plant a Wood, muft firff, acs cording to his lople, chose his lets : and if he have them not furing ging of his omne, let him make an Jupe Garden of the foods, en. clofing well the ground with Bebge, Kampire, oz Ditch, leaft Shepe, Coates, oz any other Cattell, come in to bite and bieuse it : for whatfocuer they have once bitten (as it were infected with a deadly poplen) perificth : and therefore those that means to plant Wlodes, epther foz Timber, Fewell; oz Mafte, muft carefully provide again& thefe hurtfull enemies. The Countrep laives have therein well provided, that where fuch Springs are, they thall fiede no Goates, nog fuch Cattell. Amongit the Batt The Oake Tres, and fuch as forue for Tymber, the firft place of right belongeth:

The fecond Booke, entreating

belongoth to the Dake, called in Latine Quercus, in Italian Quercia, in Spanift Roble, in French Chelny, in Dutch Eichenbaum, he that will then plant an Dake Groue, muft provide him of rive Acouncs, not over bried, not faultie, or any may corring ted : these must be sow in good ground well tilled. with as great carefulnche as he plants his Dechard, and well enclose it, that there come no Cattell in it : which (when they be something growne) you mult about Februarie remove to the place where you entend to plant your Wood : if you cut and provne them, it is thought they will profver the better for Malt : but if von rea ferue them for Timber , you must not fouch the tops , that it may runne by the ftraighter and higher. In removing them. vou mult make your trenches a fote and a halfe deve, couering the Rotes well with earth, taking god hete vou neither brufethem. noz breake them : for better pou fvere to cut them. The Dake agreeth well enough with all manner of ground, but prospereth the better in Marthes, and watry places : it groweth almoft in all grounds, yea even in gravell and fand, ercept it be over, dep : it liketh work a fat ground, neither refuleth it the mountaine. The have at this pay an Dake in Wellphalia, not farre from the Caffle of Altenan, which is from the fote to the nereft boin, one hundzed and thirty fote, and thick elles in thicknelle : and anos ther in another place, that being cut out, made a hundled Waine loade: not farre from this place there grew another Dake of tenne vards in thickneffe, but not bery high : the Rouers in Gers manie, were wont to ble for their Ships hollowed Tras, where. of fome one (as Plinie faith) would carrie thirtie men. The nert amongs the Batttres is the Bech, in Latine Fagus, in Italian Faggio, in Spanith Haya, in French Faus, in Dutch Buchen, plans ted almost after the fame manner that the Dakes be. The Baff. holme in Latine Ilex, in Italian where it is better knowne Elice, in Spanify Enzina, in french Haullen : it groweth high, if it have a ground mate for it : it prospereth byon hilles, and likes not the Plaine : it beareth Acornes leffer then the Acornes of the Dake, a leafe like a 15ap, and is continually greene. The like hath the Corkestre, in Latine Suber, in Spanith Alcornoque, in French Liege, which is counted among those that beare Balt, the barke whereof we occupie for the flotes of our fifting pets,

Beech

and

of the ordering of VV oods.

and in Pantofels for Winter : all other tres (lauing onely the Cozke, if you foople them of their barke dos dye. Another Baffbearing Dhe there is , called in Latine Quercus filueftrum. in French Chelne, a kinde whereof fome thinke the Cerre trie to be, called in Latine Cerrus, growing in wilde and barren places. There are some that doe number the Cheffnut tre amonal the Balt bearers : but of this I have fpoken befoze. The belt Balt Malt, and is the Dke Maft, the nert the Birch and the Cheffnut, then the his diffewilde Dke, ec. All bery good and met foz the fatting of Cat, rences. fell, fpecially Bogges. The Dke Daft, og Acoune, maketh thicke Bacon, found field, and long latting, if it be well falted and dried: on the other fide. Cheffauts and Bech Balt : make fwit and delicate fleth, light of digettion, but not fo long latting. The nert is the Cerre Tree, that maketh very found and god delh : The Pattholme maketh pleasant 13acon, faire and weightie. Plinic faith, that it was ordained by the Lain of the twelve Tables, that it should be lawfull for any man to gather his ofone Halt. falling boon the ground of his neighbour. which the Goid of the chiefe Juffice both thus interprete : that it Gall be lawfull for him to doe it three daves together. with this pros uilo, that hee thall onely gather the Acomes, and doe no harme to his neighbour, as Vlpianus witneffeth. Glans Daft (as Caius fapth) is taken for the fruit of all trees, as Angodua, fignifieth with the Brieke, though proverly Angualeoa, be those fruits that are fielde, as futs, and fuch other. Apon thefe abaft bearers there groweth also the Ball.in French Noix de Galle, in Italian and Dutch, as in Latine, in Spanilh Agalla, a little Ball, rugged and bneuen without, whereof some be mallie, some hollow, fome blacke, fome white, fome bigge, fome leffer. It groweth (as Plinic fapth) the Sunne rifing in Gemini, commonly all out fuddenly in one night: in one day it wareth white, and if the heat of the Sunne then take it, it withereth: the blacke continueth the longer, and groweth cometime to the bigneffe of an Apple: thefe ferueth belt to curry withall, and the other to finish the Leather. the world is of the Dake : and thus of fuch Tries as beare Waff. Dow will I isyne withall the principalleft of the other Tras, to make by your Maddes, amongst which are the Elme, and the Willow ; the Eime, in Latine Vinus, The Elme

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The fecond Booke, entreating

in Italian and Spanifb Olmo, in French Orme, in Dutch Vlmbaum, and Yffenholtz: the planting whereof, becaufe it is to great ble, and ealing growes, we may not let palle : firft, becaule it groweth well with the Cline, and ministreth god fode to Cat. tle : feconoly (as it is all heart) it maketh and tomber. Theophraftus and Plinic doe both affirme the Elme to be barraine. peraducature because the fiede at the first comming of the leafe, feemeth to lye hid among the leaues, and therefore it is thought to be fome of the leafe (as Columilla affirmeth.) De that will planta Gioue of Elmes, muft gather the fiede called Samara, a. bout the beginning of Barch, when it beginneth to ware vellow. and after that it hath dived in the fhaddow two daies, fowe it bery thicke, and call fine lifted mould byon it, and if there come not god fore of raine, water it well : after a pare pou may ree moueit to your Clime Groue, fetting them certaine fote a fune der, and to the end that they rote not to depe, but may be tas hen by againe, there mult be betwirt them certaine little tren. shes, a fote and a halfe diffance : and on the rote you muft bnit a knot. oz if they be very long, twilt them like a Garland, and being well nointed with Bullockes bung, fet them, and tread in the earth round about them. The female Climes are better to be planted in Autumne, becaufe they haue no fiede : at this day in many places, cutting off Sets from the faireft Cimes, they fet them in trenches. from whence when they are a little growne. they gather like Sets, and by this dealing makea great gaine of them : in the like fost are planted Groues of Athes. The Athe Angroues in Italian Fraxino, in Spanify Freino, in French Frailne, in Dutch Elchen : the Alhe delighteth in rich and moift ground, and in plaine Countries, though it grow well enough allo in drie grounds, he fpreadeth out his Rotes bery farre, and therefore is not to be let aboue Come ground, it may be felled every third of fourth være , for to make flaves for Eines. The Albe groweth bery falt and fuch as are forwards are fet in Februarie, with fuck poung Plants as come of them, in god handlome ogder flanding a-row : others let fuch Athes as they meane thall make fupuez ters fe: Garden Aines, intrenches of a pare old, about the Cas lends of March : and before the thirty firth moneth they touch. them not with any knife for the preferuing of the branches : after

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of the ordering of VV oods.

98

enery other pare it is proyned, and in the firt pare ioyned with the Mine : if you ble to cut away the branches, they will grow to a very godly height, with a round body finooth vlaine. & frong: Plinie writeth of experience, that the Serpent both fo abhore the Afte, that if you enclose fire and him with the branches, he will rather runne into the fire then goe through the bowes. Byrch, salled in Latine Betula, as Theophraftus writeth in his fourth Booke, is a Tre bery metefoz Woods : it profpercth in colde Countries, froffie, inswie and grauelly, and in any barraine ground, wherefore they ble in barraine grounds, that ferue for no other purpole to plant Byzches : it is called in Italian Bedolla, in Dutch Byrken, in French Beula, Wine Woos, fpzre waroos, Ditch tree, and Larly, are common in Italy about Trent. The Bine tre in Latine Pinus, in Italian and Spanify Pino, it The Pine. Dutch Hartzbaum, is planted of his kernels , from Detober to Annuarie, in hot and day Countries : and in cold and wet places, in Februarie oz Darch : the kernels muft be gathered in June, before the clogges doe open, and where you lift to fowe them, ets ther boon hilles oz elfe where : you must first ploin the ground and call in your liede, as pie doe in folwing of Come, and couer them gently with a light Barrow oz a Kake, not covering them aboue a hand broad : you thall doe well, if you lay the kernels in water their dairs before. The kernels of the Pine are called in Spanith Pinones. The firre trie in Latine Abies , in Italian Firre tree. Abere, in Spanify Abero, in Dutch Deamen , loueth not to haue any great adoe made about it : if you be to curious in planting of it, it will grow (as they fay) the worse, it growes of his owne hernell in wilde Pountaines, Plaines, oz any where. The pitch Ditch trà in Latine Picca, in Italian Pezzo, in Spanith El pino tree. de que le baza lapez, in Dutch Rododemem,is a tre of the kinde of Bines, and bery like to the Bine flueating out his Regen as he doth : for there are fire kindes of thefe Kosen tries, the Bine, the Pitch trie, the wilde Dine, the Firre, the Larth, and the Tarre trie, the planting of them all is alike. The Alber, a trie The Alder allo mete for Wieds, in Latine Alnus, in Italian Auno, in Dutch Ellen, in French Aulne, it groweth in plaine and marrilh places nere to kiners. Theophraftus faith, it pieldeth a fruite full fode in the end of Summer : many places are commodioully planted

The fecond Booke, entreating

planted with Poplar, whereof there are two forts, the Withite. Poplar. white and and the Blacke ; the White is called with the Italians, Popublacke. lo bianco : with the Spaniards, Alamo blanco : the Blacke, of the Italians, Populo nigro : of the other, Amalo nigrillo : in French, Peuplier : in Dutch, Peppelem : it is planted of the Branches and Settes, and belighteth in ipatrie places, or any of ther ground, it proueth very falt : the blacke hath the ruggerder barke, his leaves round while he is poung, and comered in his age, white buderneath, and greene aboue. The Tymber here. of is god for buildings. specially within dores : his wod is whitin within, and the rinde blackich, whence he hath his name. Theophrastus adocth a third kinde, which some call the Boplar Willowes, of Libya, and of the Alpes, it hath a rugged barke, like the fuilde Perrie : a leafe like Juie, and is in colour like a darke greene, harpe at the one end, and broad at the other. The blacke Doplar groweth in great plentic about the lower parts of the Rhyne : though Homer call the Willow a fruitleffe trie, bes caule his fruit turneth into cobinchs before they be rive : vet is the fourtaignty given him amongst Wods that are blually feld. Cato giueth the third place of husbanday grounds to the Wills low, preferring it either before the Dline Groue. Come ground. oz Deddolu, foz it is offner to be cutte, and greweth the thick ker : neyther is there to great gaine with to little charge in any thing. It delighteth in watrie grounds, darke and that Dolvie, and therefore is planted about Rivers and Lakes, hows be it it groweth in Champion, and other ground. It is plan. ted of young Settes, a fote and a halfe long, and well courred with earth : a wet ground require th a greater diffance betwirt them, wherein you thall doe well to fet them fine fote alunder. in eader like the Sinke open a Dye : in the daie ground they may be fette thicker together, yet Columeila would have them five fote diffant, fog palling by them. There are two fogts Ofiar. of Willowes, one fort enduring for ever, called Offar, feruing for making of Baskets, Chaptes, Dampers, and other Couns trev ftuffe : the other kinde growing with great and high bran. ches, feruing for ftaves to Clines, or for Quickfets, or ftakes of Devacs, and is called Stake Williow : it is planted both of the twigge and of the falke, but the falke is the better, which muff.

58.

of the ordering of VVoods.

belet in a mopil ground well digged, two fote and a halfe in the ground before it furing, and when the twigges are bare, you mult take them from the trie, when they be bery day, otherwile they profper not fo well : thefe ftakes or fettes being taken from the poung flocke, that bath beine once of twice cut, and in thickneffe as much as a mans arms, you mult let in the ground thze forte. oz a fote and a halfe depe, and fire fote alunder, laving and mould about them, fence them well, that there come no cattell to vill off the barke of them. After thee og foure væres vou map pull them. whereby they will grow and furead the better, and fo you may continually cut them enery fifth, or fourth piece, whereof you may make Sets for planting of more, for the olde ones are not to and to be occupied. The time of cutting of them, is from the fall of the leafe butill Apzill, the Done encrealing, and in Wefterly, oz Southerly windes : foz if pou doe it, the winde being in the porth, we finde by experience they will not arow fo well : you must cut them cleane away, that the olde branches hurt not the young Springs : some thinke the young Willow to grow the better the nærer the ground, and the finother he is cut. The Oliar commonly groweth of his owne felfe, and is als Forplanlo planted of his Roddes, in watrie and marifh grounds, the ting of earthralled by, and layd in furrowes : it is planted, and fprings Ofiars. mox plentifully, where the earth is beaten by with the rage and ouer-flowings of the water : it ferueth as a fure defence for mas king of Bankes and Walles in Parlhes, and that chiefely in Darch, the Bone encrealing : the Ofiar map be cut euerp piere. oz enery two være if you will. Loe, here hane you concerning Woods what needefulleft are for our Countryanen to plant : for as for Ullods of Cedar. Civrelle, and other ftrange Tres, it is not for our Busbands to buse themselves about : wet and rich grounds that are miete for Come, is allo god to be planted with Dakes, Bech. Millow, and Poplar, although the Dake and the Birch refule hillie, and lighter ground : Sandie, and bars Taine grounds, are good for Birch, Bramble, Broome, and Beath, as I have sufficiently faid before. poin perhaps you would have me proceede with Coppille Woods, that are contis nually to be feld.

THRA. Iwould : if it were no paine to you.

非3

MARIVS.

The fecond Booke, entreating

MARIVS. Coupiffe, oz fale Wand, were firft brought bu/as Plinic fafeth) by Qu. Martius, This kinde of Mod groweth coms monly of his owne accord in Forrefts , and watrie places : but all Moos are not for this purpole, for fome Tres there are which if you cut and youle often, will fade and dye, as the Albe, the Juniper, the Cherrie, the Firre, the Apple, and the Birrie : and some againe if they be not cut, will perify : the Une requis reth piercly cutting, the Dlive, the Birtell, and the Bomegras nate, each other være. In cutting of them (as they are divers) fo istheir order : for the Bake, as he groweth flowly, fo is he not to be cut, before he be of feauen, or eight vieres growth : and thenerer the around vou cut him, the better he growes, though he may be volled feauen or eight fote about the ground : The like is of the Bach, lauing that he may loner be cut. The great Waillow, and the Poplar, are cut after one fost, as I chelved a little before : though the Ofiar may be cut every two piece, or euery være. The Cheffnut map be feld euery feauenth være. both fog felwell, og fog Time fraues. Tres are cut and pold fun. drie waves, for either they are felde close by the ground, or the body is polde, when it comes to be of the bigneffe of a mans arme og moge, as the Willow is. Coppified Mods are come monly feuered into fo many parcels, as may ferue for yerely fels ling, fome fill growing while others are a felling, and because fome of them grow falter then other fome, every forthath his place, and his fealon appointed. Some are felled euery fourth piere, some every fifth piere, as the Willow, the Poplar, the Alder, and the Birch : fome, once in feauen piere, as the Cheff. nut, and fome in more, as the Dake. It remaineth, that I new their pour the manner of felling of timber, and what timber is méteft foz euery worke.

T H R A. I have a great defire to heare what time is mately for felling of timber, which much availeth (as they fay) to the long enduring of it: after, I would know what timber is mate for every purpose.

MARIVS. The featon of felling, no donot is to great purpole, whether it be for timber or fewell : for fach Tras as are feld either in the Spring, or in Summer, though they fieme dry without, are notwithstanding full of mogsture, and wetness within.

of the ordering of VV oods.

within, which in burning, will never make god fire : and therea fore Coppiffe and fire wood, your beft felling is in Winter : and for building, it is belt cutting of your trees in December, and Ta. nuarie, the Mone bring in the wane, from the fluentic, to the thirty day. Det are there fome that fay, they have found by cruce tience, that Trees being cut in Januarie, are full of Say : and therefore thinke it better either to cut them before.or after. Cato faith , the belt time is about the twelfth of December , for the Timber Trie that beareth fruit, is beft in fealon when his fiede is rive, and that which hath no feede, when it pilles it is time to rut. Such as are flatved, ferning for Pillers of Churches or os ther round workes, muft be cut when they fpaing : Shingles. and fuch as the Batchet muft flatve, are to be cut betwirt midde Winter, and the beginning, in the Welterne Wincs. Plinic af. Ermeth the belt fealon for felling of timber, to be while the Mone is in conjunction with the Sunne. Vieruuius an excellent fellois in building, doth will you to fell your timber from the beginning of Autumne, till the time that the Wiefterne windes begin to blow, the which windes begin to blow (as Plinic faith) about the firt Joes of Februarie : for in the Spring, all Tres are as it were with childe, and bend all their force to the putting out of their leafe, and their fruit. Since then they be Sappie, and not found, by the necellitie of the leafon, they are made by the reafor of their lusenelle fable, and of no force : even as the bodies of Inomen, after they have conceived, from their conception, till the time of their beliverance, are not indged to be found, or verfit. Inlike fost the Tres in Autumne, when the fruit and leaves bee gin to fall, the kotes drawing from the earth their fufficient fue ftenance, are reftozed againe to their olde effate : befide, the force of the aire in Winter both falten and make found the Trees, and therefore it is then thought the beft time to fell your timber. The manner of cutting of it is this, first to cut it till you come to the middle of the pithe, and to to let it fand, that the Say that is in it, may descend and brop out : fo thall not the molflure within putriffe, noz corrupt the timber, but palle clearely alway. Wilhen pou haue cutte it, and pou fe it die that it hath left dropping, you may cut it downe, and to thall you be fure it thall beft ferne pour turne. There are fome Dafters in building, that thinke it

14

best

The fecond Booke, entreating

best after you have fawne out your timber in bozves, to lay them in water for their or foure daies, or if they be of Birch, for a longer time, eight or nine daies : and being ordered in this wife they shall neither (they fay) be rotten, or worme eaten.

THRA. Polo let bs heare what tres are belt for timber.

MARIVS. There are divers and fundzie bles of timber : fuch as are barraine, are better then the fruitfull, excepting these forts where the male beareth, as the Cipreffe, and the Cornell : in all tres the parts that grow toward the Porth , are harder. and founder, which are almost courred with moste, as with a cloake against the colve: the world are those that grow in that dowie and watrify places, the mallier and better during, are thep that grow againft the Sunne : and therefoze Theophraltus deni deth all Timber into thie forts, into clouen, fquared, and round, of which the clouch doe neuer rent noz coame : for the pith being bared, drieth by and dieth: they allo endure long, because they haue little moifture. The fquared, and the round, og the fuhole timber, both coame and gape, fpecially the round, becaufe it is fuller of pith, and therefore renteth and coameth in surry place. And such high Tras as they ble for pillers and maine poffes, they first rub over with Bullockes bung to fealon them, and to fucke out the fappe : for the moiffure both alwaies coame fooner then the day, and day better to be famme then the grane, ercept the Dake, and the Bore that doe moze fill the teth of the Same. and relift it. Some againe refule to be glued either with them. felues, of any other, as the Dake, which cleaueth as foone to a fione, as any wood, neither doe they well cleane, but to fuch as are oflike nature : to be bosed, the grane is worler then the day: the light and the dyp, are harder to be cutte : for ISandes and Withes, the Willow, the Broome, the Brach, the Clime, the Poplar, the aine, the clouen Kicoe, and the Bramble are beff : the Bafell will alfo ferue, but the firft is the Willow : they have allo a certaine hardnelle and fairenelle, mitte to be bled in gragen workes. Among thole that ferue for Timber, are molt in ble the Firre, the Dake, the Bine, the Lard, the Cfcle, the Cime, Wile low Cedar, Copreffe, the Bore, Byzch, Blane tra, Aldar, Afte wilde Dake, Date trie, Bech, wilde Dline, Baltholme, Walnut; Maple, and Wolly, and divers others, bled according to their Hafurs.

of the ordering of VV oods.

nature, and the manner of the Sountrie where they groin. The Firre tre , whereof 3 haue fpoken befoze , glueth out Rogen, The Firre. and his timber is met for divers workes, and greatly effemed for his height and bignelle, whereof are made the Ship Balts. and Billers for houles: for it is bery firong, and able to abide great force. It is bled allo in building, for great Gates, and Doze poffes : in fine, goo fozany building within, but not fo well enduring without dozes, and very lone fet afire. They be fed (as Theophraftus faith) in the olde time to make their Gallies and long Boates of Firre, for the lightneffe fake, and their Ships for burben , of Bine tros, and Date. Df Dake, I haue fpoken alittle befoze, the timber whereof is belt; both for mward buildings , and for the weather , and allo well enduring in the inater : Heliodus would have pokes made of Dke. The wilde Dhe ferneth alfo well in water workes, fo it bee not nere the Sea : for there it endureth not , by reafon of the falts neffe : it will not be pierced with any Augur, ercept it be wet before : neither fo will it fuffer (as Plinic faith) any paile oris uen in it, to be plucked out againe.

The Maltholme , in Bræke weivog, a Tre well knowne The Malt. in Italie, the Mood whereof is tough and frong, and of colour holms. like a Darke red, mete (as Heliodus faith) to ferue for Plow-Bares : it may allo bee made in Wainelcot, and Baile borbe. The Larth Tre, in Italian Larice, in Dutch Lerchenbaura, was The Larth in the olde time greatly efficiened about the River Poc, and the Buife of Veniz, not onely for the bitterneffe of the Sappe, whereby (as virrouius laith) it is free from corruption and wormes, but allo for that it will take no fire, which Mathiolus femeth with his arguments to confute. It is goo to fulfaine great burdens, and frong to relift any violence of weather, howbeit they fay, it will rotte with falt water. The Elcle is a kinde of. Die , called in Latine Efclus , is fone burt with any moilture : the Elme, the Willow, and the Poplar, whereof 3 have fpoken before, will bery fone rotte and corrupt : they will ferue well enough within doze, and for making of Deoges. The Elnie continueth very hard, and frong, and therefore is mate for the Thekes and Polles of Bates, and for Bates, for it will not bowe, noz warpe : but you mult fo difpole it, that the top may Cand

The fecond Booke, entreating

fand doluneward: It is met (as Hefiodus fauth) to make Blow handles of. The Affe (as Theophraftus fapth) is of two forts. the one tall, Arong, white, and without knots, the other more full of Sav, rungebder and harder. The Bay leafe (as Plinic farth is a porton to all kinde of Cattell : but herein be is deceis ued, as it thould appeare by the likeline a of the name. made. oundas, is the voung Tre. whole leaves, (as is certainely trien) killeth all fuch beafts as chain not the cud. Alhe. belides his manie fold ble other waves, maketb the beft & faireft hosfemens faues, inhereof was made the faffe of Achillis, which Homer fo greatly commendeth : it is allo cut out in thinne bozdes. The 15 och. whereof I have fooken before, although it be brittle and tender. and may be fo cut in thin bordes. and bent, as he fameth to ferue. onely for Calkets, bores, and Coffers: his colour being berpfaire, pet is he fure and truffie in bearing of weight, as in Areltries. for Carts or Waines. The barke of the Bach, was bled in olde time for bellels, to gather Graves in and other fruit, and allo for Ernets, and beffels to dee facrifice withall: and therefore Curius fware, that he brought nothing away of all the spoile of his ence mies, but one poze Bechen Cruet, wherein hee might facrifice to his Gods. The Alder is a Tree with freight bodie, a loft and reddiff wod, growing commonly in the watrie places, it is chieffy effemed for foundations, and in water workes, becaufe it neuer rotteth lying in the mater : and therefore, it is areatly accounted of among the Uenetians, for the foundations of their places, and houses: for being driven thicke in viles, it endureth for ever, and fuffaineth a wonderfull weight. The rinde is pulled off in the Spring, and ferueth the Diar in his occupation: it hath like knots to the Cedar, to be cut and woughtin. The Plane tre is but a Eranger, and a new come to Italie, brought thitber onely for the commodifie of the thadolu, keeping off the Sunne in Sommer and letting it in in Winter. There are fome in Athens (as Plinic faith) tuhole branches are 36. cubits in bredth : in Licya there is one for greatneffe like a house, the thadoly place buderneath containing 81. fote in bigneffe : the timber with his foftneffe hath his ble but in water, as the Alder, but dier then the Cline, the Alhe, the Bulbery, and the Chery. The Linder, in Grate OMueia, and fo in Italian, in Spanily Latera, in Dutch Lynden : this tre Theophrastus

of the ordering of VV cods.

Theophraftus counteth beft for the workeman, by reason of his foftneffe : it bredeth no wormes , and hath betwirt the Barke and the Wwo, fundzy little rindes, whereof they were wont in Plinics time to make Ropes & Whithes, The Byzch is bery beaus full and faire : the inner rinde of the Trie, called in Latine Liber. mas bled in the olde time in fred of Paper to write boon, and inas bound by in volumnes, whereof bokes had firft the name of Libri: the twigs and bowes be fmall, and bending, bled to be carried before the Magiffrate among the Romanes, at this day ferrible to voze boyes in Scholes. The Cloer trie, called of Diofcorides ANTH, in Latine Sambucus, in Italian Sembuco, in Suanifh Sauco, in French Suleau, in Dutch Hollenter, both of all other tres fonalt and cafilleft grow, as experience, belides Theophrastus both teach us, and though it be very full of pitch, vet the wood is frong and god : it is hollowed to divers bles, and bery light flaues are made of it. It is ftrong and tough when it is dive, and being laid in water, the rinde commeth off as fone as he is dape. The Gloce wood is very hard and frong, and chiefely bled for 1Boare fpeares, the rote (as Plinic fapth) may be made in thin bozdes. The Figge tre is a tre bery well knowen and fruitfull, not very high, but fomewhat thicke (as Theophraftus fayth) a cubite in compatte, the tymber is frong, and blen for many purpoles, and fith it is foft, and holdeth fall inhatfocuer fickes in it, it is greatly bled in targets. Bore tree, in Italian Boxo, in Spanify Box, in French Bouys, in Dutch Bulbaum, an ercellent Tre, and for his long laffing, to be preferred before sthers. The Bore that turned is, (faith Virgill) Juniper, called both of Theophraftus and Diofcorides Aendis, because it dais ueth alway bermine: for with his fauour, Toades and Snailes, Juniper, ... and fuch like, are minen awap, in Latine it is called luniperus, in Italian Ginipro, in Spanith Euchro, in French Geneura, in Dutch Wachoiter : it is very like to Cedar, but that it is not fo large, nos fo high, though in many places it groweth to a great height : the timber whereof well endureth a hundreth pares. And there= fore Hannibal commanded that the Temple end of Diana thould . be built with rafters and beames of Juniper, to the end it might continue. It alfo kepeth fire a long time, in fo much as it is faid, the coales of Juniper kindled, haue kept fire a være together :

the

The second Booke, entreating

The Ce- the Bumme whereof our Bainters ble. The Ceder Tree, in der. Latine Cedrus, and almost like in other tonques : the hardnesse of this Timber is onely prailed, and that it will neuer rotte, nor be ivorme eaten, but continue euer. Salomon built that noble Temple of God, at Hierufalem, of Cedar : It is berp met for the building of Ballaces and Caffles : the Cedar, the Cben.ann the Dlive trie, doe never chinke not coame. Images of Bong and Saints were alwayes made of Tedar, becaule it euer viel. deth a motifure, as though it fineat. Theophraftus writeth of Cedars in Syria, of foure elles and moze in compaffe. The Hosen and Bitch of the Cedar trie, is called in Greeke nedpia. The Cyprefie, and the Dine, Doe endure a long time without syther The Cyipozine oz rotting. Plinie commendeth Gates of foure hundzed preffe. The Pine, gieres olde. The Pine (faith Theophraftus) is of a great ftrength. and very met for the fraightneffe and handlomneffe, to be eme The Wal- ploped in building. The Malnut tre is a great tre, and come aut tree. monly knowne, whole Timber is much bled in falings, and tas bles. Theophrastus writeth, that the Walnut tre before it fals leth.maketh a certainekinde of novle, which it once havened in Antandro, the people being greatly afrayo, fled fodainely out of The wild the Bathes. The wilde Dlive, in Latine Olcafter, in Italian Oline. Oliue Saluatico, in Spanith Azenuche, in French Oliue fauuage, in Dutch Wilder Olyboum, of his Wand is made the haftes and The Holly handels of wimbles and Augurs. Holme, oz Holly, is a Tre whole leaves are full of prickles, round about the leafe, and the barke, being both continually græne, the berries like the Ccoar: of the rinde and rotes they make Birdlime : the Wood is bery hard, the branches will well winde and bowe, and therefore fer. ueth ercellent well for quickfet hedges: the Dutchmen call it The Ma- Hullen. The Maple, called by Theophraftus spevdauvos, in Dutch Mallelterbaum, for the beautie of the wood is nert to the Cenar. ple. having a very favze and pleafant graine, of the refemblance called Peacockes taile : with this wood Tables are couered molt gozgerous to the eyes, and other fine workes made, specially of the knobs of wens that grow out of it, called Brulcou and Mollufceu : of which the knobs hath the fairer and the more courles graine. Mollufcou is a more open graine, and if to be it were of sufficient breadth for Tables, it were to be preferred before the Cedar :

of the ordering of VV oods.

Cedar : now it is but feldome liene, and that in writing tables, oz about beds. There is allo a knob. oz a wen, growing bpon the Alber, but a great deale wogle then that of the Paple. The Date The Date Trie, whereof wee have fpoken befoze , hath a bery foft wood. tree. The Corke, his timber is tough : but now for a farewell, I will The bew you what workes every timber is met for. The firre, the Corke. Dine, and the Cedar, ferue for Ships, for Ballies: and Lighters What turn (as Theophrastus faith) are made of Firre, for the lightnelle each timfate : Ships of burden, are made of Binc. Upon the French berferues, and Germanie feas, they chiefly ble Dke about their Ships: the For Ships, felfe fame timber alfo ferneth well for building of houfes, fpecis ally the Cedar , and the Cypzelle. The firre, the Poplar, the For houles Ally, and the Elme, are meet for the inner parts of the house, For water. but they ferue not fo well in the weather, as the Die doth. For courfes. conneiances of mater, the Alder, the Dine, and the Ditch tre, are belt made in Bipes : being well couered in the earth, they laft a wonderfull while, but if they lie bucoucred, they foner perify: The Dke alfo, the Bich, and the Walnut, endure bery well in the water. The Timber that longeft endureth, is the Dlive, the Die, the wilde Die, and the Matholme: for as Plinic withels feth, the Dlive hath bene fane to fand two hundred veres, the like the Cedar , and the Cppzelle, as hath bene faid befoze : foz Rafters and Portifie pieces, the Cline, and the Albe, by realon of their length ferues beft. The beft to bcare weight, is the fir, For here and the Larth, which how focuer vou lay them, will neither bend, ring of. noz breake, and neuer faile, till mornes confume them. Contres weight: riwile, the Dlive tree, and the Die, will give and bend, and fo will the Boylar, the Willow, the Cime, and the Bysch. The Date (a worthie Trie) bendeth op againft his burben. The Poplar on the other five giveth at every light thing. The Cline, and the Affe, though flowly, are eafely bent. These also are cafely mound and bent: the Willow, the 15 pach, the 15 20me, the Dke, and the Dhen bordes. Shingles, to couer houses withall, are belt For Shin. made of Die, Bach, and fuch others as beare Daft : and alfo of gles. fuch as pielo Kozen, as the Dine, and the Ditch tre : the Ditch tree, and the Dke, ferue beft for Tups, Tankards, and fuch like, Those that are cut for Wainfoot and thin bordes, the Cerre tress the Terebinth, the Dayle, the Bore, the Date, the Bathelins,

103

胡马:-

The second Booke, entreating

the rote of the Cloer, and the Poplar. For the beautifving of For ubles Tables, ferueth chiefeip the Baple, the Afh, the Walnut , and Cometimes the Therie, and the Beare : but the pretionfell are the Coureffe, and the Cedar Stables. for Areltres, Wheles, and For Arel-Speakes, ferueth the Dke, the Baple, and the Bach. Virgill both Trees. allo appoint the Cedar, and the Coppelle to this ble. Bercof they make the Spoakes of Cahceles, and hereof Carts and Waines. The felfe fame Timber allo ferueth (as Heliodus faith) for Yokes and Plowes, Pokes , and Magons : but that hee addeth hereunto the Albe, the Cerre trie, and as the Albe for his loftnelle, lo the ployres. Batholme for his hardnes. For Bullies, Mimbles, Sheathes. and Ballets, the matel are the fuilde Dline, the Bore, the Baff. holme, the Dedlar, the Clme, the Athe, the Dayle, and the Bram ble:but the greater fort of Ballets, or Betles, and the Wheles, and Bullies for Bils, and Wiels, are made of Bine, and Wale. nut tre. Cato would have the Maines and Carts made of Holly. For Hafts Bay, and Clme. Hyginus would have the handles , or fieles of and Han. Buloanomens toles, made of Dogge tra wod, Bolme, Cerre trie, and (which we hauecommonly in ble) Bore. Targets (as dles. For Tar. Theophraftus fapth) made of Willow, and Wine, for being pierced gets. they close the barder together : but the Willow is the lighteft and therefore the better. The Figge tre allo, and the Lindre. the Brich, the Deplar, and the Cloer, ferue as well for Sargets. For cha-The beft wood for Houfemens faues is the Albe, and (as Virgill fing flaues faith) for baliant flaues, the Birtill: the Cive tre ferueth (as the fame Virgill Witnelleth) for Bowcs :

The Ewe Treefor the Perlian Bow they bend.

For water and light, are vice the firre, the Patch træ, becaule they better abide the best to cleave that are made of the firre state of the fire and the fire the vice the back the back the abide the abide the back the state of the state o

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of the ordering of VV cods.

pet ferueth it well to make Coale of for the Braffe Forges, ber For Coacaule as fone as the Bellowes leave, the fire ceafeth, and there is ling. little walt in it : but for building , the timber thereof is altoges ther bupzofitable, becaufe it both eafily breake, a moulder amay : but being in polies onhewed, it ferueth well enough within doze. The apteft to take fire, is the Figge tre, and the Dline tre. The figge tre becaufeit is foft and open : the Dline trie. for the faffnelle and the fatnelle. The Larlytre (as Vurnnius faith) relifteth the fire, though Mathiolus (as 7 faid before) at eth about to difusoueit. In all the bodies of trees, as of lively creatures, there is fkinne, finewes, blod, fleft, beines, bones, and marroly : their fkin is their barke, of great ble among Country people : the beffels that they gather their Ulines, and other fruits in they make of the backe of Linde trie, Firre, Willow, Bach, and Alder. The Coake bath the thickeft barke, which though he Thebarke lofe, he dieth not, for fo beneficiall bath nature bene to him, that because he is commonly spotled of his backe, the hath given him tino barkes. Df his barke, ave made Dantofles, and Slippers, and Floates foz fiching pets, and Angles : if the barke be pulled off. the woo finkes : but the barke alwates finimmeth. The nert to the rinde in molt tres, is the fat, the folfelt and the world part of the tre, and most subject to wormes : therefore it is commonly cut away. The lappe of the tre, is the blod, which is not alike in all tres, for in the Figge trait is milkie, which ferusth as a Rennet foz Chiefe. In Cherie tras, it is gummie: in Elmes, fale tilh : in Apple tres, clammie and fat : in Ulines, and Beare fres matrifh: they commonly fpring the beft, whole Sappe is clame mieft. The inpre of the Bulberie, is fought foz (as Plinte faith) of the Whilitians. Dert to the fat, is the fleth, and nert to that the bone the belt part of the timber: all trees have not any great quantitie of this fat and flefh, for the Borethe Cornell, and the Dlive, have neither fat, noz fleth, noz marrolo, and bery little blod : as neither the Seruffe, and Alder , haue any bone, but

both of them full of marrow. Redes for the most part have no fleth at all : in fleth of trees, there are both veines and arteries, the veines are broader, and fairer : the arteries, are onely in fuch trees as will cleave, by meanes of which arteries it commeth to patte, that the one end of a long beams laied to your eare,

104

if

The fecond Booke, entreating

if you do but fillip with your finger boon the other end, the fount is brought forthwith to your care, whereby it is knowne, when ther the viece be fraight and euen oz not. In fome tres there are knots on the outlide, as the wenne, or the kernell in the flefb of man, in the which there is neither beine, noz arterie, a hard knon of field being clong, and rolled by in it felfe : thele are moft of price in the Ceder, and the Baple. In fome, the flethis onite without beines, having onely certaine fmall frings, and fuch are thought to cleaue bell: others, that have not their Brings, oz are teries, will rather breake then cleaue: as the Wine, and the Dlive, will rather breaks then cleave. The whole body of the fig is flefhie : as the body of the Daltholme, the Cornell, the wilde Dae, the Bulbery, and fuch others as have no pith, is all bony, The graine that runneth ouerthwart in the Biech, was taken (as Plinic fayth) in the olde time for his arteries.

THRA. There are other commedities belide the timber to be gathered of thele tres.

MARIVS. Urry true : (for as 3 faio before) of the Bede lar, the Dae, the Cheffnut, the Dine, and the Bach, thefe tras that grow in the Maols, belides their timber, bearefruit allo. god and mote to be caten. So of the Firres, the Bitch tras. and the Dines, we gather Rosen and Bitch, to our great commos Ditie and gaine: as of the Dhe, the Bach, the Chelinut, the Sed lar and the Dine, we have fruit both miet for man, and allo goo for fieding of Bogs, and other Cattell. In time of dearth, both our forefathers, and we, have tried the good fernice that gcornes in bread hath done, yea, as Plinic and others have written, they were wont to be ferued in amonalt fruit at mens tables. Deither is it buknowen what great gaines fome countries get by Acornes. Rosen and Bitch : The Gall allo groweth boon thele Acornebearing Tras, whereof I have fpoken befoze. Amongft all the tres out of which runneth Rosen the Darretre, a kind of Dine. is fulleft of fap, and lofter then the Ditch, both most for fire, and light, whole bordes we ble to burne in fred of candels. The Cer Dar fweateth out Hosen and Ditch, called Cedria. Boseouer, Birdlime. of Tries, is Birdlime made, the beft of the Cerre trie, the Daffholme, and the Cheffnut, specially in the Woodes about Sene, and nere the Sea fide, where they are carefully planted in great

of the ordering of VV oods.

oreat vlentie, by the Birdlime-makers : For they gather the berries from the trus, and boyle them till they breake, and after they have flamped them, they walk them in water, fill all the flefh fall away. Plinic affirmeth, that it groweth oncly byon Dkes. Baffholme, Skaddes, Pine tres, and Firre. Birdlime is alfo made of the rotes of certaine Tras fpecially of the Holly, whole rotes and barkes withall they gather, and lay them by in trenches, concred with leaves in a very moult ground (fome doe it in boung) and there they let them lie till they rot, then take they them out, and beat them, till they ware clammie, and after walk them in warme water, and make them by in balles with their hands: it is bled (befide other purpoles) for the taking of Birds. Beffpes all this, there fiveateth out of Eres a certaine Ormme knowen to all men, as of the Therp tre, the Blome tre, the Juni, per, the Dlive, the Blackthozne, the Jule, and Almond. Dut of the Juniper, commeth bernifh: out of the Dirrhe, Stozar: out of Vernich: the white Poplar, Amber. Plinic waiteth, that Amber commeth Amber. out of certaine Pine tres in the fat, as a Summe both from the the Cherie tree. And thus thele things that I have here at your requeft declared, touching the order of Planting and fowing, I befech you take in good worth : you heave my wife calleth bs to Supper, and you lie the Madoln is ten fote long, therefozeit is high time we goe.

THRA. Igiue you most harty thankes that you have thus friendly entertained mee in this your fayze Dzchard, with the fixed defeription of these pleasant Hearbes and Trees.

IVLIA. Sir, your Supper is ready, J pray you make an end of your talke, and let the Gentleman come in here into this Arbour.

MARIVS. Comelet bs goe.

Soli Deo laus & gloria, per Christum Iesum.

The end of the second Booke.

The



The third Booke: Of Feeding, Breeding, and Curing of CATTELL.

HIPOCONVS. EVPHORBVS. HEDIO. EVMEVS.



Dat the bræcing and fæding of Cattell is a part of Hulbandry, and nære iopned in kindred to the tilture of the ground, not onely appeareth by Virgill, the Drince of Poets, who hath in his Georgickes throughly fet forth the order thereof, but also by the witnesse of the more auncient Philosophers, Xenophon, and Ariftorle.

The like both our common experience at home daily teach bs: for albeit the trade of Tillage and keping of Cattell is divers, and the manner of occupping many times contrary the one to the other : as where the Graffer and Brader, requireth a ground full of Graffe and Paffure, the Bufbandman on the other fide. a ground without Graffe, and well tilled: pet in these their divers defires, there appeareth a certaine fellowship & mutua'l commes ditie redounding in their occupping of one the other. which Fundavius in Varro, both fæme by an apt comparison to proue: as in a coup'e of Shalmes, o: Recorders, faith he, the one differethin found from the other, though the mulicke a long be all one (the one founding the Trebie, the other the Bale) in like manner map we ferme the Grafiers trade the treble, a the fillers occupation the bale, following Dic zarel us, who repeateth, that at the beginning, men 'iucd only by bræding & fæding of Cattell.not hauing as vet the fkill of plowing and tilling the ground, not planting of tries. Aftere

Afferwards in the lower degra, was found out the manner of tilling of the ground, and therefore beareth the bale to the feeder, in that it is lower ; as in a couple of Recorders, the vale to the freble. So this bling to keepe cattell for plowing, cariage, dunging of our ground & other commodities: and on the other fibe, to till the ground for feding & maintenance of our cattell, it comes to paffe that though the manner of occupying in tillage and keying of cattell be divers, yet one of them to ferneth the turne of the other, that as it founcth, they cannot well be afunder : for with out the feruice of Borle and Dren, we can neither plow nor bung our ground. Chaffe, fraw, and other offall of come is mies ter to be fuent byon the ground, then to be fold, both for the Farmers behofe, and the Lozos, and better beftowed from the houshold cattell, then byon the forreiners. Befides, the dung of the cattell enricheth the ground, and bringeth great encreafe: and Inhereas there is no place (as Columella faith) but in the tillage of the ground, they have as much neede of cattel, as men : the cattell ferue not onely for the tilling of the ground, but also to bring in come, to beare burdens, carry dung for the ground, and allo for bied, and increase of the Stocke : whereby they have their name Iumenta, of helping, because they helpe and further bs, either in our labours, by plowing oz bearing Reither is it onely fufficient to nourify and bying by this kinde of great cattell called lumenta, but alfo the other leffer fort of Beaftes , as Shape, Swine, Goates : and of Fowles, Biele, Deacocks, Duckes, Widaions, Hennes, Thickins, and other Poultrie, and things belonging to Busbandy, where with the god Busband, befide his olune fuffenance maketh great gapne: and if the ground be for it, and Pales fauourable, there arifeth oftentimes as great profit, as in folus ing of Come, and that with finaller charges. For a profe that fies bing is gainefull, the words Pecunia, money, and Peculium, fubftance, or riches, being both derived from the Latine name of cats tels, may bery wel ferne: for in the old time they bled their cattell inftcad of money, and their common penalties and fines, taken in rattell, the greatest was thirtie Dren and two Shape, curry Dre balued at b.s. bi. D. and euery Shape at bi. D. The Imals left mas a Shepe : the bery like is yet observed with the nobleft and warlikeft people, whole subffance lyeth altogether in cattell. D 2

Cato

The third Booke,

Cato being once asked by what part of husbandapa man might foneft be made riche made anfivere. 139 Grafing : and being als ked againe, which way he might get fufficient livelyhod ; he and The wor-fineren. By meane Ozafing. Dezeouer, that the worthpueffe and firit oziginall of kieping of Cattell is of greatelt antiauitie. and thinefle and anti. that the trade thereof bathalwaves, from the time of the Datris quitie of keeping of arts hitherto, bane counted mout honeft, as well the Scriptures. as prophane Billories doe witnes, which kinde oflife, boly accers Cattell table it hath alwaics beine to God, by those that lined in the first luoid, doth plainely appeare. The Scripture focweth how gra. cioully the Lozd accepted the facufice of Abel, a kever and feeder of they, befives, Seth, Noe, Abraham, Lot, Jacob, Job, Amos, Holy and bleffed men are commended for keping and fading of Cate tell, whereby attavning to great wealth, they fuffavned theme felucs, their Wines, their Children, and their huge families. The Sonnes of lacob, when as they were bemaundes by the Bing of Egypt what manner of life they ledde : made anfivere. That they were feders and kepers of Cattell. From which trade, Lot, Moles, Saul, and Dauid, were by the will of Bod aduanced to the Croivne, as among the Centiles the moft and cient, and famous Princes were, fome of them brought by by Shephcards, and fome Shephcards themfelues. Romulus and Cirus, being mightie Emperours, were brought by among Shev, heards, 15efides, Valerius Maximus, Constantine, Probus and Aurelianus, came all from the Dre fall, to the Imperiall Seate. Homer commendeth Vlilles his Swineherd, for his great balis ance and nobleneffe. That the valiant and nobleff people have profefed this trade, the Italians, Germanes, and the Switzers can teffifie, whole countries being now grown to more delicacie then they were wont to be, were wont alwayes, when their doings were most famous, to glosie and baunt themselues of this life, as at this day the godlieft and wileft doc. And therefore the ancient maiters, as well Gackes, as Latines, doe count the chies feft wealth to be in the number of Shape, Cattell and Fruit : for which effimation the Cattell were supposed to be cladde in Golden Coates : whence fprang firft the fable of the Golden Flafe of Colcos, which lafon and his companions attempted to fetch, and of the Golden Apples, kept by the daughters of Atlas. 15elides

Befides the fignes of Beauen, the Seas , Bountaines , and Countries, doe beare their name of 15 caffs : among the Stars, the Ramme, the Bull: the Bountaine, Taurus : and the Sea, Bolphorus. Italie tooke his name of Calues. Mozeouer the hos ping of Cattell is the worthier, in that it hath fome refemblance of the fate of a Gouernour: and therefore the Brophets in their Dracles , and Poets in their berles , doe oftentimes call lainas and Princes by the names of Shepheards, and feders of the peo. ple. Deathe Lozo of the whole world both call himfelfe a Shep heard. Since it appeareth by these examples, of what worthinelle keying of Cattell is , and how neve it is linked with tiliage . I have here thought god, after the entreating of Tillage, Gardes ning, and Dechards, to defcribe as beiefely as F can, the order and manner of keping of Cattell: which fkill though Varro deuideth onely into their parts , I have deuided into foure. In the firft part I put the great Cattell for burden. as Horfes, Affes, Apules, and Camels: in the fecond part, the leffe fort.as Shape, Goates, and Swine : in the third, such things as are belonging to the keying and lafegard of Cattell, not for the profit they pield of themfelues, but for their necellary ble, as Shepheards Dogs, and Cats: of thefe their parts, in this third Booke, I entreat off: the fourth I referre to the fourth Boke. Having thus declared the contention betwirt keeping of Cattell, and Tillage, with the worthineffe and antiquitie thereof, I meane now to profecute fuch things as are belonging to the fame. I have brought in the the Balters and kepers of enery kinde of Cattell, and refting them felues boon the holy day in the grane graffe, and the Some mers hadow, every one declaring his fkill and knowledge, accoze ding to his profettion. The parties are, Euphorbius the Peats heard : Hippocomus the Boste-keper : Hedio the Shepheard, and Eumcus the Swine-heard.

* EVPHOR. How firra Hippocomus, whither wander you ? Doe you not know that it is holy day, a day to dance in, and make merry at the Ale house?

HIPPO. Cuery day is holy day with lazy and flouthfull marchants : it lieth me boon to loke to my profit, to fa inhether my Portes fade well, and that they take no harme. The pattures are to burnt with the heat of Summer, that Jam afraid for want

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30

The third Booke,

of meate, they will likke to breake into other grounds, and fo hurt themfelaes.

EVPHOR. Tilly bying you not them into this field, where there is both a god grotten, and pretty flore of gralle among the headgroues.

HIPPO. Pou persivademe not to the worft.

E V P H O R. Come on then, bid Mastrix your boy bying hither your hostes, and you your felfe, fit you downe buder this Hafell, that will yold be both fladow and Puts, and we will fend for Eumeus, and Hedio, if you thinke good, and wer will passe away the fime with such talks as we shall finde.

HIPPO. Agred : Goe Maftrix, fetch hither the Poples, with the Totls and the Affes.

Of Horfes. E v P H O R. And you Lumeus, and Hedio, bying your heards together, and come hither, cuery man thall lay colone his that, as they ble in the Tauernes, but without money of any charges, declaring at large what belongeth to the Tattell be kepeth. Pour Posles Hippocomus are yet in god plight. I faw the bostes of our neighbour Agrus of late, which are leaner and barer a great way.

HIPPO. Peraduenture they have not fo god loking onto, though they neither want pasture, not are much laboured, but mine on the other fide, are continually laboured, and are not fo well fee, but better loked onto then my neighbours.

EVPHOR. Clell, fince both time and place require thit, J pray you, let be heave what you can fay touching the charge and looking to of Porfes.

HIPPO. Surely, I have not fo much money to tell, but I may well be at leyfure, and therefore fince you are so earnest with me, I will not denie your request : although that of this matter, an honest and learned Sentleman of England, Paster Thomas Blunduile hath is throughly written to his commendation, and benefit of his Countrie, as there cannot be more faid: I refer you therefore wholy to him : notwithstanding briefely I will thew you my fancie. Among all other creatures that we ble in our las bour, the Horse may worthiest chalenge the chiefest place, as the noblest, the godliest, the necessariest, and the trusticst beast that wee ble in our fervice, and fince her feructh to fo many bles, I foculd

though here beflow some time in his praise, and in declaring his feruice, but fog this, another time thall better ferue.

EVPHOR. The onelphere defire to know the finnes of a and an excellent Borle, and the right manner of ordering him.

HIPPO. Firft, you thall know that Bosles ferue for fun-Dzy purpoles. Some, for the Ploin, the Cart, and the Pachladole, others, for light Borles, Courlers, and Borles of fernice, others againe, for Stallions, and breders : and therefore they muft be cholen according to their levuice. Souldiers and men of Marre. Defice a fierce Houle, couragious, fwift, and well coloured. The Bulbandman would have his Boile gentle, large bodied, and met for travell and burden. Dotwithitanding, the breding and brings ing by of them, is almost one : for in their breding, wee hope to bing them all to the Saddle.

EVPHOR. Withat things are molt to be confidered in their bzeding ?

HIPPO. Bethat hath a fancie to brede Dorle , mult firit provide himfelfe of a god kace, and then of god ground, and plene tie of Balture, which in other Cattell ought not to be fo greats ly observed, but in Horles there must be speciall care thereof. And therefore, you mult firtt fis that your Stallion be of a god zace, well proportioned, and framed in every point, and in like fort, the Mare. Some reckon their godnelle by their Countries. wherein they take for chiefe, the Benet of Spaine, the Courfer of Paples, the Sarmacian Bosle, the Peloponelian, the Turkey, and the Theilalian, but these serve chiefely for running, and sivilts nelle. For largenelle of body, enduring of labour, and fitnelle for brede, the beft are to be had out of Freeleland, Holland, and Artoys. The shape and proportion of the Borle, pught heading to be confidered, for the very loke and countenance oftentimes declareth the godnelle of his nature. Therefore vou muft bille gently confider his making, from the bale to the head, and firff pou muft chiefelv regard his feet: foz as in biewing of a houfe, it is in baine to regard the beautie of the byper Komes. if the foundation be ruinous: to the Doste that is not found of his feet, will neis ther ferue the Douldios, the Buloandman.nos the Trauailer. In The your loking opon him therfose you muft firft confider his hofes, Hoofes, DA

7

108

that

The third Booke,

that they be not tender and loft, but hard and lound, round, and hollow, that the hollownelle map kepe his fot from the ground, and founding like a Cimball (as Xenophon fapth) may declare the foundnelle of the fote, for the hoofe that is full and fieldy. is not to beliked, and the Borles that have fuch hoofes doe cafily halt, wherefore diners commend a Horle like the hofe of an Affe. the pafternes next to the hofe, not to long, as the Goat hath, for Chaking off his river, and breding of mindgall, not to flort, for being hurt in ftony ground. The leas and the thres, fith they are the flanderos of the body, they cualt to be euen, ftraight, and found, not gouty, with much fleth and beines, for fuch as have their legges clad with much fleft and beines , they with great fourneyes grow full of windgals, and fwellings, which will The legs, caule them to halt, which legges at the first foling, are as long as ever they will bee, by reason whereof you may gette what The knees beight the Bogle will be of , being pet a Colt. The knees muft be round, flerible, and imall, and not bolwing inward, not fliffe, The thies. the thres large and well brawned, his break areat and bread, his The breft, necke foft and broad, not hanging like a Goates, but bpright The neck, like a Tockes, and well reining, his Mane thicke, falling on the The mane right fibe, fome like it better on the left, his head fmall and leane . The head, for a great and heavie head is a figne of a dull Tade, his mouseli thort, his mouth wide, with large wrinchles, fill vlaving with.

the 15it, and foming : as Virgill :

There stamping stands the steed, and foomy Bridell fierce he champs.

The

The Porls that hath a dry mouth is naught : his chickebones would be cuen and small, for if they Kand to farre alunter, be mouth. will be ill to be bridled, and the uneuennette of the chakes will make him head fromg, and never to ravne well, but to thank out. his head ill fauouredly, his eves great, bluddy, and fierry, and The eyes. fanding out of his head, which is a figne of quickeneffe, and lines lineffe : hollow slittle epes are naught, and blacks, oz pale fars. in the eves are to be difuzailed : thele faults are belt fpied in the night by candle light. Columella commendeth blacke epes, A wall. eye is bery good, fuch as they fay Alexanders Bucephalus have. The cares The eares mult be float flanding bpzight, & firring, foz the cares

be

be the tokens of a Borles Romacke, which if they be great and hanging, are fignes of a Jade. The Dolthils muft be wide the The better to receive appe, which allo declareth a lively courage : nofthrill. his thoulders large and ftraight, the fides turning inward : the foulder. ridge-bone over the thoulders being fomething high, gives the The chine Porfeman a better feate, and the fhoulders, and the reft of the body is ftronger unit together, if it be bouble .: his fides depe, well knit behinde, and fomething bowing by, which both is bet, The fides. ter for the horfeman, and a figne of a great frength : his loynes, The loines the broader they be, the better he lifteth his forefæte, and follows eth with the hinder, and his paunch thall the leffe appeare. which both difgracefy him, and burdeneth him: his belly muft be gaunt, The belly, his buttocks large, and full of fleth, answerable to his breffs, The butand his fides : for if he be broad hanched, and well fored behinde, tocks. and goeth wide, his pace will be the furer, which we may perceive in our felues, if we affaile to take by a thing from the ground fruding, and not with your leages together, we take it by with more cale and arength. Dis tayle would belong, brifflie, The tayle. and curled, the length whereof is not onely a beautie, but allo a great commoditie to him to beate alway flyes : yet fome belight to have them curtayled, specially if they be broad buttockt. In fine, the whole body would be fo framed, as it belarge, high, lively fpzighted, and well truffed. Some Boslemen would haue their Bolle to be limined after the proportion of divers bealts, as to have the head and legges of a Stagge, the eares and tayle of a Fore, the necke of a Swanne, the breft of a Lion, the buttocks of a Moman, and the facte of an Affe. Virgill in his Georgickes doth very Clarkely defcribe the tokens of a god Bozle.

With head aduanced high at firft, the kingly Colt doth pace; His tender lims aloft he lifts, as well befeemes his race. (way, And foremoft fill he goeth, & through the fireme he makes his And ventures firft the bridge, no fuddain found doth him afray. High crefted is his necke, and eke his head is framed fmall, His belly gaunt, his backe is broad, and brefted big withall. The bay is alwaies counted good, fo likewife is the gray, The white and yellow worft of all, befides, if farre away There happen a noife, he ftamps, and quiet cannot refi-

Thethird Booke,

But praunceth here and there, as if fome (pirit were in his breft. His cares he fets vpright, and from his nofe the fierie flame Doth feeme to come, while as he fnuffes,& fnorteth at the fame, Thicke is his mane,& on the right fide down doth hanging fall, And double chinde, vpon his loynes a gutter runnes withall. He feraping ftands,& making deep a hole, he pawes the ground, Whiles as a loud his horned hoofe, all hallowed feemes to found.

Pou lik in how few verles the Poet hath erpselled the properties of a god Porfe : other conditions there be for which they be liked, when they be pleafant, first linely, gentle, and tractable : For luch, as Columella faith, will both better be taught, and befoter away with trauell. Xenophon accounter it a figne of a god Porfe, if after the wearinesse of his fourney he fame to labour lustely : againe, we fince by experience, the better the Porfe is, the deper he thrusts his head into the water when he drinketh, and that (being a Colt) stringth to out runne his fellowes in the pasture, and as virgill faith, leape first into the water, and passeth bridges, not tarrying for any other, nor fearing the Fig.

E v P H. What colour in Hogles count you the belt ? The Doet fameth to millike the white, which others againe, as I have funday times heard commend, specially in England, where they are well accounted of, and most estamed.

HIP. Touching the colours, there are divers opinions, and of all colours, lightly you thall finde both god and bad : to that the colour is not to greatly to be regarded, if he baue other tokens of a god horle, vet for beautie, and many times for godnes, we make chople of colour. The beft colours, as divers luppole, are thele, The roane, the white liard, the bay, the fozell, the dunne, the dayle gray the ally white the fleabitten the milke white the black and the iron gray: the bay is molt of price as far as I fie at this day. and preferred by the Poet aboue thereft. The Frenchmen call the bay hoste, Le bayari loyal, truffy Bapard : they are the better that have a Rarcein the forehead, and the fote spotted a little with inhite: aforetime the daple grap, the flebitten, the mouledun, and the grifell were moff effemed, and fuch as came nereft to then, as the Iron grap, the bright forell, the browne bay. Oncly Plato commendeth the milke white, that Virgill Dilpapleth. Dtherg

Dthers commend the blacke, specially if he have eliger white farre in his forchead, or frake dolone his face, or bath any white byon his fote, the coale blacke without any white, is altogether milliked, the flea-bitten Bogle proneth alluaics god and notable in trauell : the pellowith and the fance, or pied horfes are difcom. mended almoft of all men, notwithftanding either of them (if they be well marked) prone oftentimes well enough, specially the pellowith, if he have a blacke lift downe his backe from the necke to the taile. The Stallion therefore would be of one colour, The Stalfrong bodied, well limmed, according to the proportion afore, lion. The Marcs would likewife haue the fait proportion of the Stal- TheMares lion, specially to have large bodies, faire and beautifull, of one co. lour, great bellied, with large and fquare break and buttockes. Age.

Ev P. Withat Age count pou beft for brede ?

HIP. The Stallion may goe with the Bares when his iounts and limbs be well knit and come to their arowth, for if they be to pound, they act but weake and wearifh Colts : some ble tolet them goe together at two pæres olde, but thee væres olde is the better : the Stallton will ferue pou fcom that time till twentie pere, it hath beene fiene that they have gotten Tolts till fortie, being helped alittle in their bufineffe, for it is not væres but fkill that abateth luft, as Ariftorle afoze Plinic wrote. Det fome thinke them not mete for brede before the fourth or fifth vere, in which space they fiede them luffely, to make them more couragious, for the luffice they be, the better Colts they bring, neither would they haue buder firteine Barcs, noz aboue floenty, fog one Stallion. Herodorus witteth, that one Boile will well suffice twentie marcs, but the number ought not alwates to be obferued, but fometimes more, fometimes icle, according to the fate of the Bosle, that he may the longer endure : a young Bosle foulo not have aboue fiftene oz firtiene Darcs with him : the hozfcomut be fometime feuered for danger and hurting of themfelues, has using in the meane time god regard to the fate of his body, for fome be weaker and fainfer then others.

EVPH. What age doe you thinks beft for the Bare to goe to the Dozle.

HIPPO. The Bares will conceive, at the parce old, but I take it the better not to fuffer them till they be their pieres olde, and

IIO

The third Booke,

and likewife I thinke them not mate for Colts after tenne, for an olde Pare will alwaies bring a dull and heavie headed Jade : they goe with Foale an eleaven moneths, and Foale in the twelfth.

EVPH. How can you know their age when you be doubts full of it?

HIP. That may you know divers wayes, but specially by the toth, and those toth that declare the age, the Orecians call yraacres, which tath when he loleth, be loleth both effimation and fale. Ariftotle affirmeth, that a Dorfe hath fortie tath, of which he calleth the thirtieth moneth after his foaling foure. ting above, and two beneath : againe in the beginning of his fourth viere he caffeth like wife foure, two aboue, and two beneath, being full foure, and going byon his fifth, be cafeth the reft, both aboue and beneath : fuch tith as come by againe be hollow : when he beginneth to be fire være olde, the hollowneffe of his firft tieth is fild by : in the feauenth viere all his ticth are filled by, and no hollowneffe any longer to be fæne : after which time, no iudges ment of his age, by his teth, is any more to be had : there are fome that take byon them to tell his age by the loynts of his taile. after the marke is out of his mouth. Palladius themes, that a Holle when he begins to be olde, his temples ware hollow, his cicsbries gray, and his teth long. Ariftorle faith, that the age of all foure-foted beafts may be knolone by the fkinne of their Jawes : for if it be pulde bp and prefently let fall againe, if it fall fmoth, it declares a voung bealt, if it lie in weinkles, it theweth he is olde. A Houle liueth commonly twenty pares, lome thirs tie, oz foztie, and alfo to fiftie, as Arifloile faith, if he be of a god Disposition, and well dieted : It is faid there have beine Houses that have lined 75. peres, the Mare liveth not fo long as the Horle, nor the Stallion, fo long as the Horle that is fuffered to runne amonglt Dares : the Dare leaueth growing at five vere old, and the Bosle at fire, os leauen.

E v P H. What time thinke you belt for couering of Pares ? H I P. In the Spring, after the fwelfth of Parch, I take to be the belt, after the Spring in the reft of the yeare they are to be kept from the Porle, for hurting of the Porle: for the Pare after the hath conceined, fuffers the Porle no more, but beates, and

and frikes him with her heles , pet in most places , they fuffer their Stallions to runne with their Mares all the Summer long. and take it to be the beft way for answering the Mares defire. for many times the Mare will not abite the Borfe till Summer time, or August, and the August Colt proues commonly very faire, although the Colts that are foaled in the Spring, are not to be defired, becaufe they runne all the pare with their dammes in and Paffure, and therefore it is belt at that time to put the Mareto the Bosle, for thefe creatures specially, if you restraine them, are molt enraged with luft, whereof came at the first the name of that deadly peylon Hippomanes, because it firreth bn a flefbly aff. dion, according to the burning defire of beaffs, which groweth in the forchead of the Colt, of the quantitie of a Figge. and blacke, which the damme both fraight, as fone as the bath foaled, bite off : and if the be prevented, the neither loues the Colt, not luffers him to fucke, neither is it to be doubted, but that the Mares in fome Countries fo burne with luft, as though they have not the Borle, with their olune feruent defire, they conceine and bring forth after the manner of Brades, as the Doet noteth.

In furious luft the Mare exceedes all other beafts that be.

It hath bene faid, that in Spaine Bares haue conceaued with the winde, and brought up their Colts, but the Colts haue not lined aboue their pieces. Ariltorle writeth, that a Pares defire is quenched by thearing of her mane.

EvpH. What if the Pare will not take the Posle, is there no meanes to make her?

HIPPO. There are that rub her taile with Sea Onions, Pottels, og Hadder, and so proudte her to luft, sometime a scuruie Jade is put to her, who when he hath gotten her god will, is ftraight remoued, and a better Horse put in place. If the Horse be to flowfull, his courage is flired op by wiping her taile with a Spunge, and rubbing it about his Pose. If we would have a Horse Colt, we huit the left frome of the Horse with a corde: and for a Hare the right. The like is to be observed almoft in all other beafts.

E v P H O R. Holu often mult the be Posled after the take ? H 1 P. They takenot a like, some are sped at once, some twile, some

The third Booke,

fome moze. Itis faid, a Dare will not fuffer aboue fiftene times in the rere: being oftentimes latilfied with fewer. They muff be put to the Bosle at times, twile a day, in the morning, and at maht : when they are fped, it appeareth by refuging, and friling at the Houle. They lay : that there is amonalt these beafts a great regard of kindled, and that you can hardly force the Colt to Bosfe the Damme : for profe whereof they report, that where as a certaine Dosfesteper dio make his Hosfe, by conering his cics, to couer his Damme, the cleath being vuld almap. when he faw what he had done, he ranne bpon his heper, and flew him : as fone as the is couered, the Bare muft out of hand be beaten and forced to runne, leaft the lofe that the bath received. Surely a Dare of all other beafts, after her coucring, doth runne either Southward, oz Porthward, according as the hath conceined cie ther Horle Colt.or Bare Colt: her colour alfo doth change and become brighter, which when they perceive, they effer her the Hoile no moze. Some after a felu dapes if thep boubt ber, offer the Horle againe, and if the refule and frike (as 3 faid before) they indge the hath conceined.

EVPHOR. Duft they be coucred cuery pare ?

HIPPO. Such is our couctousnelle, as we likke to haue them beare enery yare : but if you will haue god Colts, let your Dares goe to Hogle but enery other yare, so thall they weil an-Liwere your defire, hewbeit the common ble is enery pare.

E v P H O R. The fr Affes fometimes to couer Pares contmonly, and thereof is engendeed the Poile, and foaled in the rij. moneth, as thall be faid hereafter. Some fay it is bell to cut the mane of the Pare that thall be couered of the Affe, though others hold opinion that it thall abate her luft. The Pares that be with foale, muft be well loked buto, and put in god paffure. And it through the colde Thinter, paffure be wanting, they muft be hept in the house, and neither laboured nog iaffed by and downe, nog fuffered to take any cold, nog to be kept to many in a firaight roune, fog caffing their Foales, fog all these inconveniences will hazard their Foales, yet to travel them moderately, will do them rather god then harme, fog to long reft will cause them to be refliffe, and to typer some. Authoric written, that the Scythians hid ble to travel their Pares great with foale, after the time they began

her an to ffirre, supposing their foaling should be the caffer, but noo here muft be taken, that their bellies benot hurt with any thing while they are with foale : but if to be the Mare be in dans ner, either in calting her Foale, or in foaling, the remedy is. Polipody famped, mingled with warme water, and given with a home : it is faid that the finell of a Candell funffe, caufeth them to caff their foales : you muft enery piere ouer-fie pour Mares. and fuch as be unprofitable , or barraine, muft be put away, for from their firft foaling they are not to be kept aboue ten væres.at which time they are lufty enough, and may be well fold, but fo wil they not beafter : The young Foales are not to be handled with the hand , for they are burt with the lighteft touch that may be, It muft be fiene unto, that if the Dare be houled, there be rome enough for her and her foale, and that the place be warme es nough, that neither the colo harme it, noz the Damme ouer dieit. and therefore the place muft be well cholen, that is, neither to hot, not to colde, and afterwards by little, you muft being by the Colt : when it groweth to be fomething frong, it muft be put to paffure with the Mare, leaft the Mare receive burt by the abs fence of it : for chiefely this Beatt of all others , mott eftemeth her voung, and if the be kept from it, taketh harme. The foale that lackes his Damme, is often brought bp, of other Bares, that have Colts : the Dare muft goe in bery god vafture, that the Colt may have floze of milke. Being fine moneths olde, inbert you being them into houle, you mult feede them with barly flowee and braune : at a twelue moneth olde, you muff either put them into god palture, of feor them with Branne, Chaffe, and Bay. Varro will not have you to weane them, till they be two peres. olde : and though I like not to ione weaning, pet we ble commonip to weane them at five or fire moneths old, and to let them. runne in god patture, which cultome proucth not amille. Dores ouer, as long as they runne with the Damine, you thall doe well to handle them now and then, leaft, when they be put from the Damme they ware wide : they muft be taught to be gentle, and not oncly to abide a man, but to couet his companie, and not to be afraidat every Grange fight, nozat every noife, but to come to it. Xenophon faith, we mutt (as men)prouve Scholemafters for out Thilozen fo likewife teachers foz our Bogles, & appoint how mefoil.

The third Booke,

mill have them broken : for as their feruice is divers. fo muft be their breaking. Wut hereof we fall fpeake more hereafter. when we entreate of Boslemanship, and breaking of Bosles: onely now we will deale with those that fucke, and ferue for the Holow. To make them gentler, the bridles, and other Horfe hars neffes muft be hanged by them, that they may the better be acquainted with them, both with the fight, and the gingling. Cow inhen they be well tamed , and will fuffer to be handled . Varro mould have you lay a Boy groueling byon them twife.oz thrife. and after to beffride them, and this he would have done. When they be their være olde, for then they grow molt, and begin to be great brawned. There be that thinke a Borle may begin to he handled at a være and a halfe old, and Varro, at the være old. when their propender is given them : but we ble commonly after tino væres to labour them gently, first in harrowing of new ploined land, which is god both for their fote, and their pace, and allo with plowing, s fuch like exercile: whereby we ble to acquaint them withcolde and heate, in drawing together. It muft be fiene to , that they be even matched , leaft the ftronger fpoile the ineaber, while he dreadeth the rating and whipping. Horles take leffe harme with drafving then with bearing. Thus muft they be bled to reasonable trauell, by reason whereof, they will be the harder. and not fo lightly take harme : but herein muft be. areat discretion.

E V P H. What fay you to Geldings ? for in these parts we ble Geldings molt.

Scables.

H 1 P P 0. They ferue for some purpose: but he that will have a god Gelding, must geld (as they say) a god Horse; they are cut at a yeare old and elder : I my feile have cut them at five yeare old, and fire yeare old: in cutting they lose their from acke: you must loke that they be in god plight when you cut them; for as they are at their cutting, they commonly continue. The Pares also ble to be spared, but not often, and with great danger.

E v P H. Withat manner of Stable would you have, for I have Cometimes heard, that the Stable is of great importance?

HIPPO. Pour Stable must be built in a dype place, for wetting the Portes hofe, which you thall avoide if you planke it with goo Dhen planks, or (which Xenophon would rather have you

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boe) with round pauing flone, kæping it allvaies cleane from dung, and fraw, and after laying freihlutter, fo as they fland hard, and lie foft. Xenophon would have the Stable fo placed, as it may alwayes be in the Haffers eie, and to be lightfome, leaft the Hogle being bled to the darke, his eie dazell at the light. Some thinke they will be the gentler, if they be vled to the light, 4 the fairer, if they have the Sun at the rifing in Summer time: let as much aire come to them both day 4 night as you can. In Winter pour Stable flould rather be warme, then hot, and therefoge your ftable muft fland toward the South, but fo as the windelves may open toward the Posth, which being kept that in Winter, may be warme, and opened in Summer, you may let in the cole aire. E v P H. The like we ble in our Dre ftalls.

HIPPO. Beffdes, whereas the bodies of cattell, have niede of rubbing, as well as mens bodies, for many times it both the Porfe as much goo to be froked downe the back with your hand, as to fied him. The Bosle is to be continually curried, in the mos ning, at night, and after his labour, In currying of them we muft Currying. begin at the head, and the necke : for it is a baine thing to make cleane the lower parts, and leave the other foule. It is ced alfo to obferne due times for his fieding, his watering, and his travell. Thus much of his exercice. Dolv followeth to fpeake of his diet : Dyet. and becaufe we have fpoken befoze of his paffure, we muft alfo fap fomelphat of his other feding. The better a man would have his Bosle to proue, the better mult he loke to his meate for that and feding (the Country people fay)is a great helpe to the godnelle of the Borle. If the Borle be roung (as I faid before of Colts) he muft be fed with graffe, chaffe, and hap : if he be elder and met to trauaile, his foo muft be the dzier, as Chaffe. Barley, Dates, and Day. Thaffe both not fo well nourify, by realon of the dineffe, but it kiepes the body in god plight : and because hard meate is hardelt of digettion , it is therefore to be given to those that labour. The flock og fud, muft be paftured in lagge paftures and marthes, as allo byon mountaines, and hilly ground, but ener fuell watred, not day, rather champion then wody, and rather foft finat graffe, then high and flaggy : if the paffure be to thost, they foner meare their forestoth, and are tothleffe before their full age. And where as enery kinde of creature is naturally moilt, a Weste 10 ought

The third Booke,

ought chiefly (whether he be voung, o2old) to be fed with moit pallure, for the better confernation of his natural temperature. Seme would have vou in no wile to give vour Bosle graffe in the Spring time, but in June, or the fall of the leafe : they mould haue pou gine them graffe with the be we bponit, and in the night Icafon, Dates, Barly, and Day. Bolubeit, in the colder Couns trics, in Germany, Fraunce, England, where the paffure is berp and , they doubt not to fowie their Boiles with arene aralle Scowring, and Wiedes of the meddolves : and in the hotter Countries, they doethelike with griene blades of Wihcat, or Barly. Some ble to give them Apples Marco in picces, to fcowse them withall, and thus much of leawing of Hozles. Generally, luboforner will haue his Horle healthy, and able to endure trauell. let him fed his Horfe with Dates, minaled with chaffe or fraiv, folhall he be temperately and well fed, and if to be labour much, give him the moze Dates, Dis meat muft be giuen tim as fome thinke beff.ina low Manger, let fo low, as they are forced to eate their meat with some difficulty of trauell, which they say is to make them bend their necks : by which erercife both the bead and the necke grows eth bigger, and they will be the caffer to be bridled : befides, they will be the Gronger, by reafon of the hard fetting of the forestete. Bowbrit, in some places, they ble high flanding Bangers : after what fost focuer they be, they muft alwaies be kept cleane, and Provender well finent before pou caft in their meate. Their Drouender though diuers Doglescourfers that live by fale of Dogle, Doe fade them with fodden Rie,02 15 ean-meale fod, pampering them bp. that they may be the fairer to the cie : yet is it not god fod to las bour with. The beft Brouender that is, is Dates, and for befault of them, Barly : you muft beware you giue them neither Wiheat, Rie, og any by pulle: their Bouender muft be given them rather often, and little, then once or twife a day in great portions, leaft you glut them there with : they are bled to be fed commonly fine times a day, when they fand in the Stable, heping an equall number of houres betwene the times when they trauell, you map give them meate feldomer, but in greater quantity, & if their four. nies be long, they muff haue Brouender befides in the night, als waies remembring (as I faid) that you glut them not. The better a Hozle febeth, the better will be labour. Dou mult allo beware that

that vou giue him no proucuder, neither Dates noz Barly, after any areat labour, till he be thozolo colo:notivithfanding you may aine him a little hay to cole his mouth. The hay mult be fuit and fuell made, & thozowly thaken, befoze it be call into the racke ; and fpecially feene to, that there be no feathers of any fowle amonaft it. If the houle be bern hot after his labour, let him be well coues red.and foftly walked till he be cold, before you fet him by : when he is let by, litter him well, leaft the colones of the around frike into him: in any wile wall him not when he is hot, but when he is through cold, water him, and walf him, wiping him day when you bring him in. Ifthe Borle forlake his meat, fome ble to framue Garlick & Depper, & to giue it him, rubbing his teth well. till his Komack come to him: fome would have a clout wet in falt mater. tved boon a flick. 7 thruft into his Jawes. In watering, you muft loke well buto him, for (as Ariftorle faith) beafts oo feo. f are nous rifhed the better, if they be wel watred. Dozles & Camels, Do love belt to brinke a thick water, in fo much as if the water be cleare, they will trouble it with their fete : for the mot part Bullocks againe befire a faire cleare water, a running. The fame Ariftoric alfo affirmeth, that a hosle may luffer thirlt foure dayes without Dink. Varro wils you to water your holles twile a day, which ole ber we observe, that is once in the mouning, sagaine in theasters none: but in Winter, if they drinke but once a day, it fufficeth : bes fore you mater him, he mult be well rubbed, and then led into the water bp to the knees, specially if he be leane, if he be fat, he may go the deper. Dotwithstanding there are some that hold opinion, they ought not to go to depe.as their ftones touch the water. fuer cially if the house be youg. After Darch, & the fpring, it is bery goo to ride them by & dolwne in some River, which will exercise their leas, for the water drieth the leas, & reftraineth the humors from falling downe, and kiepeth them from windgals : as fone as they come from the water, you mult with a little fraw wipe them cleane, for the damp of the fable caufeth inflamation in the hories legs that be wet. The water (according to Vegetius his minde) would be cleare, & springing, other like it a little running & troub. led in a clay ground: for this water, by reason of the thicknes 3 fats nes, both better nourily and fiede the houle, then the fimilit running Areame: pet those hosses that are bled to the fwift & cleare rivers,

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114

are commonly the frongest, and best travellers : and there, fore it would be well confidered how the horse hath been accufromed : the colder the waters are, the less they nourily, the desper a horse drinkes, the fatter he proves : and therefore some Horse-coursers when the their horses mouthes, first with water, and after to rub them with fait, to give them an appetite to their meate and their drinke.

E v P H O R. J pray you let be heare some remedies for horses difeases, for (as Aristoric faith) a horse hath as many difeases as a man.

HIP. As touching difeafes in a Bosle, it is better to preuent them by god biede taking, and (as Vegetius faith) to be more care. full in heping a horfe healthy, then when he is licke to cure him: which health you fual continue with cafe. if you will obferue those things touching his dpet, his ftable, and his labour, that Thana told you of before. Witholoeuer will have a god horle, and horns him in god eftate, muft oftentimes fe him, come to him, handle him and froke him: for that both makes him gentle, and gives him a fapze coat : and be fill mindfull of the old proverbe. The Mailters eye maketh a fatte horfe : and to be thoat, to have him to fill in his fight, as he rather want his owne meat, than his horfe. thould : for he that neglecteth his horfe neglecteth himfelfe. To let him have moderate exercise, and to ride him now and them (if the meather befaire) into the field, will doe him great god : the morning is better to labour him in then the cuenting, neither muff : pou in Winter oz in Summer ouer labour him : foz being in a fiveat, and after taking cold, he falleth into dangerous difeafes. And therefoze remember what Flaid, that wherlocuer you have laboured him oz ridden him, be fure pou couer him with fome cloth, and walke him foftly, that he may be cold, before he either be fuffered to cate or drinke : when he is cold, he may be led to the water and walked : loas when you being him into the fable, you litter him well, and throughly rub him, and fo give him meat. 31 he be overtrauelled, the onely remedie is reft, and after his fiveas ting, to wall his mouth in Summer with water and bineger, in Winter with brine : for the neglecting of these things, hath bene the defruction of many a god hogle. Allo, to poloze into his mouth Wine and Ople, in Summer, cold, in Winter, warme,... (28

(as Vegetius feacheth) and as wie finde by experience, is very and : for it is commonly liene, that a tyred Dorle (if neceffitie forceth a further journey) with polozing in a quart of god wine. will trauell inffilie. Dou muft not fuffer your bozie to brinke af. fer his iourney, till he be cold : howbeit, it he fweate not to ers treamely, and be ridden fone after, it is not fo dangerous : it is farre better to let hun thirle, then to give him cold water if he be bot. If a house have long refted, he is not to be travailed boon the fudden, either in gallopping, or long journey, but to be laboured faire and foftly at the firft. A house that is mearie or tyzed. will be wonderfully refreshed, fo as it would fome he had neuer bene trauai ed. if he may wallow himfelfe either in the Kable, og other Drie place out of the winde and raine : and therefore Xenophon would have niere onto every ftable a place met for their wallows ing, wherein after their iournics, they may tumble themfelues: for in fo doing, they field they are in health, & refresh themfelues. Dou mult lake diligently that they be well loked to at night, and that after their flueat, they be well rubbed and currped, and that they be not diffuieted when they thould reft. In winter they would be clothed with wollen, for taking of cold, and in Summer with Canuas, to keepethem from flyes. Bou muft beware that you fourney them not long without faling, but after you have tras nailed an houre, or fuch a thing, prouvle them to fale (by ris ding them out of the may) into fome place where Sheepe haue Dunged, oz into fome high graffe ferne oz flubble, which ozder was continually observed by the best opeter of horses, that ever I knew in England, one Henry King, who having charge of that molt worthe Bentlemans horfes, Sir Thomas Chalenour, carried a faire company of Beldings from London to the Court of Spaine. who not with Kanding their long iourney through France, & the painefull pallage of the Piremics, by the failfull biligence of their keper, came thither in as god plight as they came aut of Engs land. And if to be you the be cannot fale, of faleth with paine, you mult bathe him with bath appointed for colo. that is. Dule mings led with Wine power opon his lovnes : alls a Loufe put into his yard, or lape put into his fundament, hath bene fine to helpe him. If this so not helpe, you must fquirt in honey boyled thin, with falt into his pard, Some would have the licour of the

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lime Birumen louirted in : Aliomus witteth, that the Borle that cannot fale, is prefently remedied, if fo be a Daid Arike him buon the face with her airdell, the fite (which is the chiefeft matter in a Basie) vau mall alwairs kove found : if as 7 tolde vou afore. your Stable be well paued with round frone,or well planked and kept cleane : which done, you muft flop his hofes with Colve aung. of for want thereof with horferdung waterd, and his leages muft be offen rubbed with a Brawne wilve. To caule the hofe to grow, or to revaire the broken hofe, take of Garlicke heads feauen ounces, of Bearbearace the bandfuls, of Allome beaten and lifted . fcauen ounces . of Barrowes greale bervolde ting vounds, mingle all these with a handfull of Alles dung, bolle them, and annoint the hofes therewith. After their tourney, fie you fearch their fiete well , fuffering no gravell , noz fith to rea maine therein, you thall well refreth their hofes with the oints ment afoze falo. The fornts of the valternes, would be well bathed after their travel with warme wine, oz an egge oz fivo would be thruft into their hofes, the leages themfelues would be walken with warme Bore. oz fomelike bath. If the Bozle thank out one of his feete, and fland not even, it is a ligne of fome fault in the hofe : the Houle halteth, either by realon of the fpoiling of his hofe in fourney. oz by ill Going, oz by wholfome humozs falling downe, by low franding in the Stable, or by windgals. If the fault be in the flowing, firste byon the head of enery naile with the Bainmer, and when you perceive him to thanke, plucke out that naile, or voluce byon the hofe colde water, and that naile that is firft dip, pluck it out : if it matter, fquiefeit out, and poloze in Bitch well fodden with old Swines greafe : you muft allo fpædilp even his hofe below, that the matter (if it be full of corruption) map Defcend, leaft it breake out aboue the hole, and to caule a longer time of healing. The fignes of it be, if he hold by his fort, which if you do pare him to the quicke, and where you perceive it to lake blacke, openit, and let out the matter : if he be hurt inward, and-Randeth but on his toe, it the weth the fault to be in his hofe : but if he tread equally with his fote, it declares the griefe to be fome other where, then in his hole : if in his haulting he bowe not his lopnts, it is a figne the loze is in the iopnts. For all halting genes rally, mingle Demp with the white of an egge, and frop the fote withall_

mithall, and after clay on the thee : if it be a wound, but thereir the powder of Dotteribels, and Merdegreale to dip it by, og the Inhite of an egge, with Sote and Aincoar. The Cratches (as they commonly call them) is a malady that havyeneth betwirt the Baffernes and the Dofe, in the manner of a fcab, and is ingene bied of the Damps of the Stable, lohile he fandeth wet leaged : the remedy whereof, is all one with the paines, which is like wife a forance breding about the iopnts, breaking the fkinne, and mats tring : taking away the haire, walk the fore with warme Bere, or with the broath wherein is fodden Mallowes. Brimftone.and Shaves fuet. which muft be bound about the fore place morning and evening, oz elle Sheves fuet, Boates fuet. Swines greales Herbeareale, and quicke 132/mitone, 15 olearmoniack and Sove. boiled and made in ointment, where with you thall anoint the fore fuile a day, walking it firft with warme Wine, and after it is bried annoint it, in the meane time kepe bim out of the water : the Lies of wine is allo fometime bled in the curing of the crafe ches, Windgals, which are fwellings, and rifings in the legs, are cured with cutting, and burning: fome thinke they may be referate ned and cured, by riving the Posle oftentimes by and downe in fome colde and fwift freame, also by walking his legges with Balt, Unegar, Swines-greale, and Dyle, wapping them by cere taine dayes, or by launcing, or learifying they are cured : the outs ward fozes are bealed by burning. If the backs be wrung with the Saddell, of other wife burt that it fwell, Vegerius would have pouto leth Dnions in water, e when they be fo hot as the Bosle may luffer, to lay them byon the loze, and binde them falt, which will allwage the fwelling in one night. Irem, Sait beaten and medled with Hinegar, putting to it the volke of an egge, laved bye on the fwelling will heale it : befides, Arfimart framped and laid to, both prefently allwage the fwelling. If the backe be galled, walk it with Bære and Butter, or caft byon it the voluder of a Loine wall. There is a difease that is common in Horses, called the Tlives, which if he have, turne downe his care, and launce the fore at the rote of the eare, and take out the matter : but take god hade you cut not the beine that lieth a little aboue. If a Horle have bene fet by hot after his fourney, and in his heate hath bene watred , of taken colde, which the Germanes call Verlaugen,

24

18

116

in English Foundact, or in some places Fraite: the remedie 10 the fkin of a Wiesell cut in fmall vieces, frely butter, a rotten gage and vinegar mingled together, and volved into the holfe with a horne : after which, let him fand conered with a wet cloth till he mare bot. A prefent, and allured cure for this difeale. A learned not long agone, of that hone f. wile, and taliant Gentles mad, Captaine Nicholas Malbee, in whom there wanteth nos thing belonging to a worthic Souldier : his medicine was this, Carter each legge immediately one hantfull about the knie with a life, god and hard, and then walke him to chafe him, and put him in a heat, and being somewhat warmed, let him bloud in both the back baines, & and in the baines of the hinder legace, befivene the hofe and the vafforne, referring the bloud to make a charge withall, in this manner : Take of that bloud two quartes, and of wheat meale, as it commeth from the Spill, halfe a pecke, and fire egges, thels and all of Bolcarmoniacke halfe a pound, of Sanguis Draconis halfe a quarterne, and a quart of fireng bineger : mingle them all together, and charge all his houlders, breft, backes louncs, and forelegs there with, and walke him boon fome hard ground : this houres after, lead him into the Rable, and let him Rand tyed two hourcs to the racke, without meat of drinke, and walke him then two or three houres more, and then give him a little warme water, with ground Malt in it, and after a little hap and prouender, then walke him agains over the hardeft ground you can get : pon mail ride him the next day a mile of tipo foftip. e to from day to day butill he be well, which will be within this or foure dates. Remember to let him fand the first day after his frif walking, two hours in water by to the belly : this medicing. is infailible. The collicke, so paine in the belly is thought will be ealed in a hogle of Bule, onely with the light of a Ducke, or any water febrie. To keepe your hopfe from flyes, it is god to walk him over with the supce of the leanes of the Gourd, in the mitit of Bummer. Bany tunes hogies are troubled with wormes, oz . bots, which you thail perceive, if they saft their lake byon their belly, if they wallow eftentimes, and frike their belly with their fote : the remedie is Warts home, Sauine beaten, and gluen. him with a little Tinegar in aborne. Columells would have you. take the hogle with your hand, and after that you have plucked

out:

out the dung, to walh his fundament with Sea water, og Brine. Brafanolus in his Commentary buon Hippocrates, declareth how he cured the Duke of Ferars holles, being in great danger with wozmes, by giving them Duickalver, and Scordium, oz Water-Germander, when no other medicines would heipe. The Rhelume, or ducklation, maketh a Borle flothfull, dull, and faint, vet will be be les, and rivden, and moderate labour is not amille for him, let him drinke warme water with Wheat bran: the more filth he bordes at the mouth, the better will it bee for him. There are funder difeates thought bucureable, which if the Horfe had, and was fold, by the olde Laines he was to be furned backe againe, ersept the bargaine were otherwife : of which number, are the broken winded, the lunaticke, and the mangines, called the Farcine, which difeafe if it come once to the Kones, is thought bucurable. To this they adde the through: Splent : some thinks the broken winded is not to be cured, be. caule it is like to the confumption of the lungs in a man, pet . fome hove of recentery there is, if it be taken in time : for leto ting of blod in dry difeates, is against reason. But you may and nount the whole body with Wine and Dyle, mingled together and marmeb, and curry him against the hapze till be fiveat, and gine him this drinke inward from the first day : the inpre of Difan, Swines greafe clarified, and Amylum, in new fivet wine, which being boyled together, you may give it him with a borne to open his vives, and let him to as hee fland warme. The lunative eves are cured by letting him blood in the temple veines, bathing the eves on the outfide with fome warme bathe, and putting into them fome frong water certaine dayes, till they be whole: Forthe mangineffe take the wormes called Cantharides, beating them, and mingle with them a little Herdesarcale, and to annount him with it, warming the body of the-Bolle with a fire panne. Dthers ble to walh him with warms water twile a day, and after to rubbe him with Salt fodden in water, till the matter come out. Aboue all other, they fay it ero selleth in the beginning to amount him with the fat of a Seale: if it have runne long, you must ble ftronger medicines, as Lime, Bzimtene, Tarre, cid Simines greafe, of cach alike quantitie, boyled together, and with a little Dyle made in an oyntment,

117

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they ble to rub it allo with the Sote of a Caldzon. Againfi mas ny difeates both of Dorles, and Bullocks, they ble the rate of the Bearbe called Black Elleboze. of fome Bearefate.oz others Setterinozt, lubich they thauft in the baeft of a beaft, betinirt the fleth and the fkin, making a hole before with a 15odkin. Againt all pileales of Horles, Vegerius commendath this Dedicine as the chiefelt. Centorle, Manmelwod, Dogae Feneil, Wilde Time. Sagapen, Betonie, Barifrage, Ariftolochia rounda, take of each a like, beate them imall, and fift them, and if the Bosle have an ache, afue it him with water, if he be ferme, with god frong Wine. The old Busbands would not fuffer their Borfes to be let bloud, but boon great neceffitie, leaft being bled to it, if it thould at any time be omitted, it thould brede some difease : and therefore in very young Borles, and fuch as be healthy, it is beft not to let them bloud, but in the rofe of the mouth: for those that be come to their fullage, you map let them bloud before you put them to vaffure, but beware vou beare a feddy hand, and ftrike them not fo depe. Geldings pou fall not ned to let bloud. The Bostes of Barbary (as they fap)neuer note any medicine.

EVPHOR. Dou have spoken enough of Dolles, it is time you lay fomething of Alles.

HIP. It is areativ out of order, but fince vou will nebs baug

me fo to boe. 3 will not Aicke with you to fap what I can therein, that each of you may poe the like in his charge. Alles are come monly kept, yet not to be little let by, becaule of their funday come modifies, and the hardnelle of their fieding : for this pore bealt contents himfelfe with what meat fo ever you give him, Thilles, Bapers, Stalkes, Chaffe, (whereof euery Countrey hath floze) is god meat with him : belides he may belt abide the ill loking to of a nealigent keper, and able to fultaine blowes, labour, hune ger and thirlf, being feldome og neuer ficke : and therefore of all other Cattell longeft endureth: for being a beaft nothing charges oble, he ferueth foz a number of necessarie bles : in carrying of burdens, he is comparable to the Hozle, he draweth the Cart (fo the load be not burealonable) for grinding in the Bill be palleth

all others : therefore in the Country the affe is most neofull for carrying of things to the Market, and Come to the Mill. In Egypt and Barbary (where the ground is bery light) they have alfe

Affer.

also their ble in plowing : and the fine Ladics of the Countrey noe ride byon Alles richly furnilbed : yea, they be bery aut to he taught, to as at this day in Alcayre, you thall have them Daunce bery mannerly, and kepe measure with their Mulitian. Varro maketh mention of two forts: one wilde, whereof in Phrygia and Lycaonia there are great floze : the wilde Affes that are tamed, are patting god, specially for breede, & they are ealilie bros ken : the other is tame, of which I meane to fucake. The beft are brought out of Arcadia, (although Varro feines to commend the briede of Italy for gooneffe.) De that will have a briede of Affes, muft have the Dale and Female both of reasonable age. large bodyed, found, and of a good kinde : the Bale muft be at the least their viere olde : for from their, till they be tenne, they be fit for breeding : they bring forth their Colts fometimes as tino vieres and a halfe, but thie vieres is the belt age : the fee : male goeth as long with her burden as the Dare, and difchargeth in all refords as the doth : but the will not bery well retaine. secent the be forced immediately after the horfing to run about : the feldome bringeth forth tivo. Wihen the foaleth, the gets her into fome barke place, and keepes ber felfe from being fiene. They will beare all their life time, which (as Ariftotle faith) is thirtieveres : they are put to the hoste a little befoze the tenth of June, and beare enery other piere : thep bring forth their Foale at the twelue moneth. Withile they be with Foale, they mult not be greatly laboured, for hazarding their Foale: the Dale muft never be tole, for he is as letcherous as the Divell, and by reft will ware naught. The Colt is fuffered to run with the Dan the first piere, and the next is gently tyed by with her, onely in the night times: the third pere thep are broken, according to their ble. The Damdoth wonderfully loue her young, fo much, as the will not flicke to come thozolu the fire to it : but the water this dare in no wife come niere, no, not touch it with her fote neither will the drinks in any ftrange water, but where theis bled to be watred, and to as the may goe and fland day fote. They dee light to be lodged in wide roomes; and are troubled with fearce full dreames in their flipes, whereat they to value with their leages, that if they lye nore any hard thing, they burt their fate: in drinking, the fcarfely touch the water with their lippes,

118

(23-5

(as it is thought) for feare of wetting their godly cares, whole thadowes they in their drinking : no beaft can worke away with cold then this. If your Affes halt at any time, you thall thus remedie them, wall all the foote with warme water, and afterward make them cleane with a tharpe knife, which when you have done, take old chamber lye, as hot as may be, and melt therein Goates fuet : or if you have not that, Dre tallow, and anoint all the fext till they be whole.

EVPHOR. They fay, that betwirt an Alle, and a Dare, is gotten the Polle, as a third kinde, of two funday kindes, neither refembling the father, not the mother.

Moiles.

HIPPO. It is very true : as of the fue Affe, and the Bosle is engendzed the the Molle, but altogether, fubborne, and bureas fonable dull. Alfo of the Mare, and the wilde Affe, being broken are beed Moiles that run valling fwiftly, and are wonderfull hard hoofed, but rugged of their body, and milchieuous fromached, pet ealie to be handled : the Bares foz bacd, muft not be buder foure pieres : not aboue ten: they are foaled in the twelfth mos neth, as Horfes and Affes are, as Ariftorle faith : but Columella farth, their foaling time is not before the thirteenth moneth. The Female conceaucth (as experience teacheth) affuredly after the feauenth day : the Male Doth never better hozle, then when he is inoft tyzed, She that conceaueth not before thee hath caft her colts tath, is taken to be barren, as the likewife that takes not at the first hozfing. Those that are gotten betwirt a Bosle and an Affe in olde time, were called pepards, and fuch as were brought forth betwirt an Alle and a Mare, they called Moiles. The Doiles themfelnes (they fay) doe neuer ingender : and if at any time they did, it was taken for monttrous, accounting the saule of their barrennelle, the contrarictie of their kindes: which matter a long time troubled both Ariftotle, and the reft of the Bhilofophers. Though Ariftoele hath other where written that Doiles doe both ingender and bring forth: and with him agreth Theophrastus, affirming, that in Capadocia they doe commonly bring forth, and ingender of themselves. The like both Varro, and before him Dionifyus, and Mago affirme, that the breding of Doiles in the countries of Affricke, is neither monttrous, noz geazon, but as common as our brede of Borles : but the Boile

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119

is both favzer, and better fomached, that is begotten of an Affe and a mare. The Stallion that you meane to have for your race of Moiles, mult be as fayze as you can get, having onely this remard, that he be large of body, bigge necked, broad, and firong ribbed, large, and brawne brefted, his thighes full of fonoties, and the leages well knit, of colour blacke and fpotted : for Affes (though they be commonly dunne) yet that colour agreeth not well with a Doile : fome fay, that what colour you would have your goole to be, with that coloured cloake you muft cour your Alle. The Ale lo proportioned (as I have declared) that pour meane to appoint for your Stallion, you muft fraight waves take from his damme, and put him to fome Dare that hath a Colt fucking of her : you fhall cafily deceine the Dare, by fetting her in a darke place, remouing her owne Coltfrom her, and putting to her in fico thercof the Alles Colt, which the will nurle as her shine. Afterwards, when the Dare bath beine bled to it a tenne daves . thee will continually after that time give it fucke. The Alls being in this order brought bp , will better acquaint hims felfe with the Dare: fometimes though he be fucked onely with his olune damme, being brought by when he is young among f Bares, will well enough keepecompany with them (as Columella faith:) but our Alles are of themselves defirous enough of the Darcs, that they niede not to be trained to the matter : for it is a wonderfull coltify beatt, & bureafonably weaponed. De muft not be leffe then that yares old when he couereth your Dares. which muft be in the Spring time, when you may well fiede him with graffe, and god floze of Dates, and Barly:neither nuft you put him to a young Mare, foz if the haue not bene hozfed befoze, the will to beat her woer, that the will make him like the worfe as long as he liveth : for remedy whereof, you must at the first out to the Dare a wilder Affe, that may we her befoze, but not fuffred to horse her, and when you perceive that the is horfing, away with the ralkall, and put to your Stallion. A place fit for this purpole, the Countrie people (as Columella faith) were wont to have, which therealled a Frame, oz a Bzake, with two railes on both fides, and a little diffance betwiene, that the Mare cannot frine, not turne from the Bosse, the lower part enclosed, and the Bare Randing low, to the Alle may the bester leave her , having the vover:

byper ground fozhis helpe, which when the hath conceance, and at the twelue moneths end brought fozth, the yeare after the must be fuffered to run emptie, that the may the better bying by her colt. The the Poile (being a twelue moneth old) must be taken from the Damme, and let run byon Pountaines, oz wilde places, foz the hardening of his hofes, and the better enduring of labour, foz the male is the better foz burden, and the female the quicker and linelier : both the kindes doe trauell well, and till the ground, if the plowman be not burcafonable, oz the ground fo ftiffe, as it requireth a dzaught of Dren, oz Pozle. They will leane ftriking and bicking, if you ble to give them Wile will line foure fcoze yeres.

EVPHOR. Since you have begun with travelling beatts, what can you fay of the Camell ?

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HIPPO. The Tamell is chiefelp bled in the Caff parts. which fome suppose to be the serviceableft cattell for man that is, and as it were thereunto onely framed, for he is bumbaft byon the backe for bearing of burdens. Allo, he hath foure knies, whereas the Borle, the Alle, and luch others, have but two : for his hinder legges bow forward as a mans knædoth, wherewith hee knæleth to receive his burden. There are tivo kindes of them. the Bactrian, and the Arabian : the Bactrian have two bunches boon their backes, and the Arabian but one, and the other on their breft to leane byon, both fortes of them lacke their tigth aboue.as the bullocke doth : they all ferne in those Countries for burden, and to carry men in the warres: they are as fwift as hogles, but fome a great deale more then others : neither will they breake their pace, noz carry moze burdens then they are bled to: they beare a naturall hatred to the hosle : and can forbeare drinke for foure Dayes : hie dlinkes when he may, both for that is valt, and to come, troubling the water before with his fost, otherwise hee Delighteth not in it : hee is feode belide his Walture , and fuch things as hee acts in the Wind, with Dates or Barly, and Salt: he engendzeth backelward as the Clephants, Tygars, Ly. ons, Connies, and luch other, whole instruments grow backes ward : when they meane to goe to rut, they fike the fecretelt and defecteft places that may be: neither may a man at any time come

come nere them, without great danger. They goe with young a twelue moneth, and are mete for brede at thre peres old, and after a være they conceaue againe, they beare but one at once.as Clevhants and other great beaffes boe : they give milke till they be areat. Againe, (as Arithorle fapth) Dydinus in his bokes of Bulbandry writeth, that the Camell hath a regard to his blod. as the Horle hath, and lieth neither with mother, nor lifter. And the female Camell of Bactria, feding boon the Bountaines as monalt the milde Boarcs, is oftentimes breamed of the Boare. and conceaneth. Di the Boare and the the Camellis engendeed the Camell with two lumpes byon the backe, as the Boile is of the Affe, and the Dare, and in divers things refembleth his fire. as in briffled heares, frength, and not fainting in the mpre but going luffily through, and in carrying double fo much as other Camels, as the fame authour fapth. The females of themare fpaide, to ferue the better for the warres : they live (as Ariftorle fauth) fiftie pieres: others lav a handzed pieres, and are lubied to madneffe, (as Plinic fayth) there are a kinde of them called Camelleopards, that have the refemblance of two divers beafts, the hoses and hinder leages like an Dre, his foreleas and his head like the Camell, the necke like a Bosle, being flecked white and red. Strabo fauth, he is couered like a fallow Deare. Araight necked, and hie, like an Offridge, his head fome thing higher then a Caniela:

EVPHOR. Fremember I have seine the like bealt for all the world in a piece of Tapestry with blacke Pouces, with their Mines, and baggage upon their backes, save that they had their little hornes by on their heads, like as some Shiepe have. I thinke Heliodorus in his Æthiopian Korie, did first des scribe this beast, but these outlandich beasts we meddle not much with.

HIPPO. Goe to Euphorbus, let vs now fée you discharge your part, according to your promile, and tell vs some part of your cuming in kéving your Cattell: for next to the Horse in worthinesse commeth the Dre.

E v P H O R. Since it is so appointed, J am contented to Bullockes. thew you what I can fay touching my pose skill: and first, I may not suffer the Posts to challenge the chiefe place, when the olde writers

arthiters and auncient people did alwaics give the garland and chiefe praife to the Dre, as to a god Plomman, and a faithfull fernant : for Heliodus, a molt auncient Wiliter, and the graueft Anthour of our profettion affirmeth, that the family both confife of the Bulband, the Wife, and the Dre. The felfe fame by his authoritie both Ariltocle fæme to alleadge in his Politickes, and in his Geonomickes, which beaff was alwaies of that bonour and effimation, that he was condemned in a great penalty, who focuer did kill him, being a fellow, and a chiefe helper in our hufs bandey. 139 the worthine to of this bealt, many great things receined their names of them : for of the number, beauty, and fers tilitie of Baifers, did Italy (as they fay) firft take his name, becaule Hercules purfued the noble Bull, called Italus. This is the chiefe companion of man in his labours, and the truff feruant of the Goddelle Ceres : in many great things, for the roialty of the Dre, they derived their names from the Dre, as in calling allo the Grape Bumammam : in fine, lupiter himfelte thought god to convert into this thate his funct darling Europa. Dozeover, of a rotten Store are ingendeed the fwete 15 es, the mothers of Doney, wherefore they were called of the Sickes (as Varro faith) Buldvac. The fame Varro makes foure degres in their age: the first of Calues, the fecond of Dercings, the third Stares, the fourth Oren. The Seres : in the firft, the Bullcalfe, and the Coloc-calfe : the fecond, the Devfar, and the Stare : in the third and fourth, the Bull, and the Cowe : the barraine Cowe he cale leth Tauram, the melch Come Hordum, from whence came the fealts called Hordica felta, becaufe the melch kine were then fas crificed. The godnelle of this beaft is divers, according to the die uerfitie of the Country : the beft were counted in the olde time to be of the briede of Albania, Campania, and Tolcam : at this bay ine take the beft kinde to be in Bungary, Burgundy, Frilland, Denmarke, and in England. Of Bullocks, fome are for the draught, fome for the faule, and fome for the paile : to what rure pole focuer they ferue, whether it be for labour, for milhing, or for fieling, it is belt alwaies to choic fuch as are young, of luffie age, rather then those that are olde and barraine, the words of covenant in the olde time (as Varro faith) in felling of 13ullocks, were thefe : doe von marrant thefe 13ullocks, og Stores,

that you fell to be found, of a found Deard, and without fault : The Butchers that bup for flaughter, and fuch as buy for faction fices, ble no word of warrantile : and though fome Bullocks are cholen by their Arength, some by the greatnelle of their body, vet the belt commonly have thele properties : large, well knit, and found limbs, a long, a large, and a deve fided boby, blacke hors ncd, though in the colour there be no great matter, yet fome millike the white for their tendernelle, which allo Varro confens teth. who would have them broad forcheaded, great eved and blacke, his cares rough and hairy, his talves to be large and inide, his lippes blackith, his necke well brauned and thicke, his Dewlappe large, hanging downe from his necke to his knesshis thoulders broad, his hide not hard or fubborne in faling, his belly dieve his legges well fette, full of finewes, and fraight, rather thoat then long, the better to fuffaine the waight of his bos Die, his knies ftraight and great, his fiete one farre from the og ther, not broad, nor turning in, but ealily foreading, the havre of all his body thicke and thost, his tayle long, and big hapsed . Palladius thinketh the beft time for buying of draught Dren, to be in Barch, when being bare, they cannot cafily hive their faults, by the fraude of the Seller, noz by reason of their weakneffe be to ftubborne to be handled. It is beft to buy them of your neighs bour, left the change of ayze and lople burt them : for the 25ule locke that is brought by neere home, is better then the ftranger, becaufe he is neither troubled with change of apre. water. noz pas Aure : if you cannot have them nere you, buy themfrom fome like Countrey, og rather from a harder: and be well affured that you buy them ever matched, left in their labour the ftrons ger fpoule the weaker. Loke belides that they be gentle, fkilfull in their labour, fearefull of the goade, and the driver, not Dreading any water or bridge : great feders, but loftly, and not oucy-haltilie, for fuch doe beft digeft their meate. In chofing of Bulles of Line, the very like fignes are to be required, that the 13ull differeth from the Dre, in that he hath a moze frowning and fierce loke, flozter hornes greater, and thicker necke, fo big, as it firmes the greatest part of his body, his belly fomething gaunter, and meter for Bulling of Kine. The Bull, before he be fuffered to goe with the Bine, muft be well fed with graffe,

121

9

chaffe,

chaffe, or hay, and kept fenerally by himfelfe, neither muft he goe to the Colve, till the tenth of June. Varro mould not fuffer him before the riling of the Lira : but Ariftorle would have him all the reddzing time, to goe in paffure with the kine. The Coine likewife would be high of fature, and long bodied, having great boders, broade forchead, faire hornes, and finoth, and all other to. kens almost that is required in the Bull, forcially to be young : for when they palle twelve væres old, they are not and for bien. but they live many times farre longer if their passure be good, and they kept from difeates. The olde Colve giueth moze milke then the voung, according to the Country peoples proucebe, olde Tine moze milke, poung Dennes moze cages. Againe, buder thic vieres old, you may not fuffer them to goe to Bull : if they chaunce to be with Calle before, you mult put the Calle from them, and milke them for their Daies after, leaft their boders be fore afterwards forbeare milking. Plinic writeth, that at a piere old they be fruitfull, but the breede will be little, as it havpeneth in all to timely ingendaings. Don muft enery pare in these beaffs (as in all other) fort pour focke, that the old that be barraine. or bnmete for breding, may be put away, fold, or remourd to the Dow : for when they be barraine (as Columelia faith) they will labour as well as Dren; by reason they are dred by, but we ble commonly to fat them : their age is knowne by the knots and cire cles of their bornes, which Plunie marketh likewife in Goates. The time for going to 15ull, fome take to be beft in the mit ft of the spring : Palladius would have it in July, for to in the ninth moneth the thall calue, for to long the goeth with Calfe (as the common people fap) a Cewe and a Ducane bath both one time. In many places they deare to have their Cowes goe to Buila thirty of forty baies after the tenth of June, that they may calue in March, or April : that they fould have much milke, fo or der the matter, as their thine goe to Buil from the Spang, to Winter, whereby they alwaies milke fome : at once builing the conceineth, if the channee to faile. the goeth to Bull againe within fiventy days after : fome fay, if to be the Bull come bolune on the left fide of the Cowe, it will be a Comcalfe, if on the right fide, a Bullscalle. The Bickes affirme, that if von will hauea 15ull calfe, you mult huit the right fione of the Bull, e for a Colu calfe.

calle, the left : Varro faith, that if you put the Cow to the Bull immediately after gelding, the conceineth. Columella affirmeth fiftene thine to be enough for one Bult. I thinke he will well enough ferue twenty laine, if he be fuch a 13ull as 3 Deferibed : if you have good floze of paffure, you may let them goe to 15ull enery piere, but von must beware vour taine be not to fat, that will hinder their being with Calfe. The Cowe thould when the is redaring, have but thost patture, and the Buli his beliv full : fothall neither the be to fat, not he bulufty. It the Cowe will not take the Bull, von muft fampe fea Daions in water, and rub her wover the faile with it : if the Buil be not luffy enough about his bufineffe, take the percil of a Stagge, burneit, and make it in voluder, and with a little luine and the voluder, bath his frones, and his percell withali, which will ferne for the like purpose in all other beaftes (as Quintilian faith) his courage is also firred by by the like obours that you speake of for your Holle. A Bull sught not to leave the Cowe aboue this in a day as some thinke, but we finde by experience, that he may oftner. In some places they have common Bulles, and come mon Boares to enery Towne : A Bull will ware furious at the fight of any red thing, as the Elephant, and the Lyon, which can in no wile abide the fight of any white thing. A Cowe will give fucke to a ficange Calfe, but let not the Calues lye with them in the night, for feare of over-laying them. Some weane them at the first, and luckleth them with Milke, or Whay, having a little Branne in it, or Flowre, wherewith they bying them bp, till they be able to fiede. Whether you means to rearc them for brede, labour, or feding, pou muft let them want no floze of god pacture : for though they be of never fo great a breede, pet if their pasture be scantie, they will never come to their full growth : for patture makes the beaft (as the Countrep people lap.) Mago, and the olde Bufbands, would have you to gelde them while they be very young, which our Der wie likewife obferue in cutting of them : and in the Sozing. or at the fall of the leafe, when they be three moneths olde, or there about, we ble to gelde the Bull Calues, and fpay the Come Calues, folding by the wound, and annointing it with freih Butter. Columella would not haue them cutte, but their itones

122

2D 2

fones broken by little and little with an infrument, which kinde of gelding he beft liketh, becaufe in the little young ones, it is done without blæding : for when they be something arowne by. it is better to cutie them at two være olde, then at a være olde. which must be done in the Spring, or at the fall of the leafe, the Done being in the wane : you muft tye by the Calfe to a frame. and before you cut him, you mult falten about the finches, where, by the ftoncs hang, a couple of fmall flicks like a paire of tongs. and taking hold there with cut away the fonce. fo as a little of the byper parts of them may remaine with the forelaid (pnowes: for by this meanes you thall not hasard the beaft by ouermuch bigs Ding, neither is his fomacke quite taken alway, but hath fomer thing of the father remaining, and pet lofeth his abilitie of ingene bing. Dotwithftanding, if vou fuffer him immediately buon his new cutting to goe to the Cow, it is certaine he may get a Calfe. but let him not lo doc, foz feare of blæding to death. The wound muft be annointed with the Athes of Clines, and Lytharge, and he must not be luffered the first day to drinke, but nourifyed with a little meate : thic daves after he must be dvetes, according to his fablenelle, with greene bowes and fwete gralle cut for him. and loked to, that he drinke not to much : and if you will, you may annoynt the fore for three dates with Tarre, and a little Alhes, and Dyle, to heale him the coner, and to keepe the place from flyes. Dou muft ble them while they be yet young to fuf. fer to be handled, and froked, and tyed by to the Manger, that when they all come to be broken, they may be handled with more cafe, and leffe danger : but Columella forbids you to mede Dle with the breaking, or labouring of them, before their pare old, and after five : for the one is to fone, and the other to late. Those that you have taken by wilde, and be well framed, and propostioned, according to my patterne, you thall handle and breake in this fort : First of all, fo that you have a large rome, where the breaker may eafily goe by and dolone, and out at his pleas fure, without anv danger. Befoze the Stable vou muft haue a faire field, that the Steres may have libertie enough, and not. be feard, og haltred with tres og bulhes. In the Stable, pou mult haue certaine falles oz bozdes, voke-wife fet by, a feauen fote from the ground, to which the Stares may be tred : this

Done;

123

Done, chole you a fayze day for the purpole, and faking them by bring them into the Kable : and if they be bureafonable . wilde. and curff , let them fand tyed a day and a night without any meate, to tame them withall : afterwards let him that kepes them, offer them a little meat, not fidewapes, og behinde, but before, coing them all the while, and speaking gently to them, fros king their backes, and their molels, and fprinkling them with a little float wine, taking goo bed, that they frike him neither with head, not with hele : for if he once get that tricke, he will neuer leaue it. Thus being a little acquainted with him, vou fhall rubbe his mouth with Salt, and let dolune into his throat certaine lumpes of fait tallow, and poweing after a quart of good Wine, which will make him in thic dayes as good a fellow as you would will him to be. Some ble to poake them together, and let them draw fome light thing, or plow in a light plowed ground, that their labour hurt not their neckes.

The readier way of breaking them, is to poke them with an olde Dre, that may ealily inftruct them: if he happen to ive dolune in the furrow doe neither beat him, not feare him, but binde his fet together, and let him lye, that hee may neither fturre, noz fiede : which being well punifyed with hunger, and thirft, will teach him to leave that fullen tricke. The feding of this kind of Cattell is divers, according to the divertitie of Countries : if there be fore of god Paffure in the Countrie, there is no fode to that : in Countries where wanteth Patince, and specially in Winter, he mut be kept in the Stall, and fed with fuch fodder as the Countrey vields. Where there are Tares to be had , it is the beft feding for them : and Bay is bery god, Chaffe, and Coleftalkes with Thaffe and Bay, and chopt frain fodde toge= ther in water, is very god feding for Minter. In fome places, they fiede altogether with new theefhed Arabe : in many plas ces they give them Lupines fleped in water , oz Chiches , oz Belon, mingled with Chaffe : befides, the branches and leaves of Mines, the greene branches of Elme, Albe, Poplar, and Polme : in winter, when other griene bowes faile, the figge Tre will ferue, oz the broufing of Dkes, & Bolly. Dren are fone fat in goo Patture, and with Witheat, Kapes, Apples, and Kadilh: Dren, og laine, will be palling fat, where there wanteth Balture, bp

\$ 3

by chaing them meale mirt with Wheat, Chaffe, and Kapes, oz Graines. They will ware the foner fat, in walhing them with warme water, og (as Plinic faith) by cutting their fkinnes, and blowing in winde to their bellies with a Riete. Socion teacheth that they will be fat, if when they are taken from pattire, you give them the firft day Collumits chopt and flived in tharne Clinegar, and after warts Chaffe, being well cleanled and mingled with Wilheat branne, for the space of fine or fire dates, fieding them after with god floze of fodder : in Winter pou muft finde them at the first Ceck-crowing, and againe when the day begins to breake : in Summer firft at the breaking of the day, then at none.and at night : in Summer you mult water them twife a Day, their heures afore none, and their houres after : in Winter, once a day with warms water, which is also thought to be god for fruitfulneffe : and therefore the Lakes that are filled with raine water, are god for them. This kinde of Cattell defireth no cleane, oz faire water, but foule and publed : petit were better to aine them faire water. Allo, pou muft prouide them of warme pakures for the Winter, and in Summer berp cole: chiefly Mountaines where they may browle byon the bulkes, and picke by a god living among the Mods : but in lowe grounds and niere the River Dren are foner fatted, and Bine give a greas ter quantity of Bilke. In Summer, they lye abroade all the nights in many places : yea, in England you thall have them foddzed abroad all the Winter. Though they be able to abide colde, vet muft rou provide them of large Stalles, for the fuccous ring of fuch as be great with Calfe. Pour Stables of Oreffals, muff fand ozy, and be well flozed, either with ftone, grauell, oz land : the fime will fuffer no water to abide byon it, the other will fone brinke it bp, and day it : both forts muf belaped flope, that the water may runne away for rotting the groundleis, and marring their houses. Let them even toward the South , lo thall they be the drier, and the warmer : notwithstanding, let pour windowes open goth and Caff, which being thut in Winter, and open in Summer : may giue a healthfull apze. In fine, as nære as can be let the houses be neither to hot, not to colde. and as dev as may be: Columella would have two Dreshoules, one for the Winter, the other for the Summer, both bucquered,

but

124

but well and high malled, for keping out of wilde beaffs. The Stals would be eight fote wide, that they may have come es nough to lye in , that the Bine areat with Calfe burt not one the other, not the Aronaer Dre lotong the loeaker : and that there may be rome for their Brepers to come about them, and for voalung them. Virruuius would have the Dreshoule over folnards the Caff, and to be neere the fire : for fire is naturally beneficiall to Cattell, both for the drying up of the infectine Damps, and the kaping of the Cattell warme. Belides, by fee ing of the fire, they are made gentler, and by the beate thereof. what colde they have taken in the Waltures is ervelled, and diners inward difeales cured. The heules mult be fenered with Divers romes, enclosed and racked, the Kacke must have such vers titions, as one beaft bequile not the other, whereto they mult be incli haltred and tyed, for hurting one the other : Cato would have the pertitions lettiled. Dozesuer, it is to no purpole to - firde them well, except you also looke to the kieping of them in health, and found, and therefore inhether they be in houses or abroad, you must allusies have a speciall regard buto them. and to over looke them in the night, specially, if there be any kine amonglt them with Calfe. And though it be nedefull at all times to overside them, both morning and evening, pet moft medefull is it of all other times, to lie to them in the Suzing, when you first put them to passure : for at that time, by reason of their change of diet, both Dren, Kine, and Bapfars, are moft in danger of fickneffe : in Wainter againe to looke to them, that they be not, for fparing of charges, kept fo poore, as they be btterip (poiled. And therefoze pou muft fpare no litter, fpecially when they come from labour, to rubbe them, and day them, froking them with your hands, and railing the hide from the fleth, which will doe them areat good. In comming from worke, or out of the patture, you muft wall their fiets well with water, before you bring them into the house, that the durt and filth cleaning to them, bicde no difeafes, not foften their hofes. Beware of to much cold, or heate, for too much of either, filleth them with difeates. Dou must take bede they be not shaft, nor chafed by and dolune, specially in hot weather, for that bairgeth them in a Feauer, oz cauleth them to have a Flive. Take

D 4

Take hade allo that there come neither Swine no? Poultrie nære their stalles, so? both of them with their dunging poyloneth the beast. The dunging of a sche Swine both bræde the Possilence, o? Purvaine amongst Cattell. Pou must away with all manner of Carriens, and burying them well so? infecting your Cattell. Is so be the Purvaine chance to come amongst them, you must prefently change the ayre, and sever your Cattell farre a. sunder in divers passures, kæping the sound from the sicke, that they be not infected, nor suffering them either to swde together, or drinke together.

The Murraine and his diuers kindes.

The Pettilence oz Burraine, is a common name : but there are divers kindes of it : in some Murraines, the cattell drivell, and runne both at the nole and mouth : in others againe they be by, and fall away more and more : fometimes it comes in the iopnts, and cauleth them to halt befoze oz behinde : fometime in their kidnes, and appeareth by the meaknes of their hinder parts, wherein they fame to have great paine in their lopnes. Another kinde there is, that rifeth like a Farcine, with pimples over all the body, now appearing, and prefently banifhing, and comming out in a new place. Another fort, betwirt the hide and the fleth. wherein the humour liveateth out in divers parts of the body. Sometime it is like a lepzofie, when all the fkinne is full of little vimples, and fometime a kinde of madneffe, wherein they neyther beare, noz fie fo well as they were wont, though they loke fayze and fat, and luftie enough. Cuerp one of thele kindes, are contagis ous and infediue: and therefore as fone as you perceive them infected, you must prefently put them alunder, for infecting the whole focke. left you impute that to the weath of God (as many foles doe) which happeneth through your owne beattlyneffe, and negligence. The common remedy (as Columella faith) is the rots of Angellica, and Sea Thiftle mingled with Fenell fede, and with new boyled Wine, Wheat flowze, and hot water to be fpzinckled woon them. The common people, when they perceive sither their Dozfooz Bullocke fick.oz any other cattell elfe, they ble to take the rote of blacke Elleboz, called of fome Confilieo, of others Bearefote : and foz a Bullecke, to thauff it in the Dem. lap; for a Dorle, in thebreft; for Swine or Shape, through the care, making a hole with a Bodkin, e thruffing the rote prefently through:

Setterwoort.

through, which the new wound holdeth fall that it can not fall out, whereunto all the whole force of the popfon doth ftraights wates gather, and runneth out in filthy water. Derfumes in this cafe (as Vegetius teacheth) downuch god, as 152imftone, bullecked Lime. Garlick, wilde Bariorum, and Coziander fede, laid byon the coales, and the Oren fo held, as they may receive the finoke by their mouth & note, that it may fill the braine, and their whole body with a healthfull ave. It is god allo thus to perfume the whole body, both for the health of the ficke, and preferring of the whole. Befoze I proceed any farther, I will fet you downe what kinde of Spices, and what quantitie you ought almaies to have in a readinelle for your cattel. Dou mult have one yound of fenis crike, halfe a pound of Liquerelle, one pound of Gzaines, Turmes ricke, halfe a pound, oz a quarterne of 15ay beries, one pound of Long Depper, halfe a pound of Triacle of Bean, a pound of Anil fede, halfe a pound of Comin, halfe a pound of Dadber, Dztment, halfe a pound. The hearbe whole rote you may ble (as 3 faid bes fore) groweth in many places in the Was once brought bnto me by chaunce from Darndall in Sulles, by one Richard Androwes, a good painefull fearcher out of fucit things. For belide his prefent remedying of Cattell, he ferueth againft divers difea. fes in a man, fpecially for the Quartane, as the learned Mathic- For Crulus hath in his description of Plants mentioned.

To returne to my Sattell : if they want their bigeffion, oz chawe not cudde, which difeales is perceived by often belching, and noyle in the belly, with forbearing of their meate, buineffe of their eves, and not licking of them felues. Take a handfull of Pellitozie of Spaine, as much of Bearbegrace, as much of Fetherfein, Sage, Hozehound, and Bay Salt, their pintes of very firong new drinke : fæthe them all together three oz foure walloppes, and give it him bloud-warme in the morning, not fuffering him to dainke till the afternoone : if you negled this difease, so that he be payned in the belly, and full of gricie, his will grone, and neuer fand fill in one place. For remedie whereof, you thall binde his tayle close by the Rumpe, as fraite as may bee, and give him a quart of With a pinte of the pureft Dyle : and after daine him apace for the space of amile and a halfe; annoint your hand with greafe, and rake him : after wards.

ditie.

afterwards, make him runne againe : some ble to let him blood in the taile, within a handfull of the runpe.

The Taile There is a difeale which they call the Molfe, others the Taile, which is perceived by the loofenes, or forther betwirt the ionts: take the Taile and fiele betwirt every forth, and where the iont fremeth to be a funder, or is fort and not close as the other toynts, there take and flit him the longeft way bnder the Taile, about two inches long, and lay in the wound Salt, Soote, and Barlicke, and binde it fast with a clout about it. The Tholicke, or paine in the belly, is put away in the beholding of Befe in the water, specially Duckes, (as you fayo before of Hoyles :) for the fight of the Ducke, as Vegerius and Columella fay, is a prefent remedy to this beaft.

The Flixe For the flive, or the Laske, which in some places they call the Ray, take Slocs and dry them in powder, and give it them to drinke: if it be the bloody Flive, the olde fellowes were wont to rure it in this lost: They suffered not the beau to drinke in three dayes, and kept him falling the first day, and gave him the stones of Reasins, or Grapes, dryed and made in pewber two pounds, with a quart of tharpe tart Ukine, and suffered them to drinke no other drinke, and made them eate the browling of wilde Dlive tries, and Haltrive tries : and if they mended not with this, they burnt them in the forehead to the very braine pan, and cut of this cares. The wounds, till they were whole they walked with Dre piffe : but the cut parts were to bee healed with Dyle and Ditch.

Laske in Calues.

The Cough. If your Calues have the Kay of Lake, take fwet milke, and put therein the Kennet of a Calfe, make it no thicker but as the Calfe may well drinke it, and give it him luke-warme.

If your Bullocke have the Cough, and if it bee but begine ning, give him a pinte of Barley meale with the yolke of an Egge, Reasins boyled in fiver Thine and trained, a pinte : mingle them together, & give it him falling. Allo Braines beaten and mingled with Flower, fried Beanes, and meale of Lens tils, all tirred together, & given him in a math. Columella would have you give them Braffe chopt, and mingled with Beanes that are but a little backen in the Mill, and Lentils finali ground, and mingled with water. The old Cough they cured with the pound of

of Hylope, fléeped in their pintes of water, and mingled with Fiower, which they made him to fwallowe, and afterwards poweed into him the water wherein Hylope had beene lovden, also Pealon, with Barly water and ledden Hony, when they had the Cough, and Confumption of the Lungs. To keepe them aline, they vied to burne the rote of a Hafell, and to theuft it through their earces, giving them to dennke a pint of the inice of Lieks, with the like measure of Dyle and Cline. For the Cough of the Lungs. I vie to give them long-Peeper, Graines, Fencgryke, Bayes, Annifiede, Detment balles, Turmericke, and Hadder, beating them all together, and fiething them in god Ale grounds. If your Calues have the Cough, take Sentory, and beat it to powder, and give it them.

If they have the Feaver, or Ague, you thall perceive it by the The Feawatring of their cies, the heavinche of their head, the drive, ver. ling at the mouth, beating the beines, and heate of the whole body: let them fail one day, the next day let them blod a little betimes in the mouning in the taile, after an houre give them a thirty little talkes of Columpts fod in Dyle, Water, and Salt, which must be powerd failing in them, five dayes together. Beside, you may give them the tops of Dlive trees, Lentils, or any tencer brutings, or branches of Unices, and wipe their mouthes with a Spunge, giving them coloe water thrife a day.

The blood falling dolvne into the legs, caufeth them (as Vegefius faith) to halt, which as some as you perceive, you must firaight, Halting. wates looke upon the hoofes, the heate whereof will declare his griefe, befide, he will learle fuffer you to touch it. But if so be the blood be yet about the hoofe in the legs, you shall diffelue it with good rubbing, og if not with that, with fearifying, og pouncing the flainne. If it be in the foote, open it a little with a knife betwene the two clawes, and lay to the foge, cloutes dipped in This negar and Salt, making him a those of Basonne, and be well ware he comenot into any water, but thand day. This blood, if it be not let out will back to matter, which will be long ere it heale: if it be opened at the first with a knife and made cleane, and after clowts dipped in water, Salt, and Dyle laid to it, and at the laft samointed with olde Swines greafe, and Goates sue boyled together, it will quickely be whole. This discale, as I take it,

126

thest

the countrep people call the Fowle, or the Wilfve, which then fometime cure with drawing a rope of frain, or hapre through the Clefe, till it blede, oz by fearing of it with a hot yzon. 38 the bloo bein the lower part of the Boofe, the uttermoft part of the Cle is pared to the quicke, and to the blod let out, and after the fot wapped with clowtes, and hoed with 1320me, you muff. oven the Doofe in the middelt, ercept the matter be ripe. 3fhe halt by reafon of the Crampe, oz paine of the finewes, you thall rubbe his bnas.thighes.aud legs, with Salt and Ople.till he be whole. If his knows, or topnts be findlen, they muft be bathed with warme Uineger, and Linfede , oz Bplet beaten and lavo to it. with Water and Donny. Allo Spunges wet in hot water, and Dived againe, and annoynted with Bony, are bery good to be lais to the knoe : if buder the fivelling there be any humour, Leauen. o: Barly meale foode in water and Bony, o: fwiet Wine-muff be lavd to it : and when it is ripe, it mult be opened with a knife. and healed as before.

All griefes generally, if they be not baoken, muft be biffolueb inhile they are new, with bathes, and fomentations: and if they be old, they must be burned, and the burning annointed with Butter, oz Goates fuet. If he haue burt bis bale, oz his hofe, fone Ditch, Brimfiene, and greafie Woll, mult be burnt bpon the foare with a hot pron. The like muft bee done when it is hurt with a Stubbe,a Thome.oz oz a palle, being firft plucked out, oz if it bee berp biepe, it mult bee opened wide with a knife, and fo handled : for kibed heles, take and call him, and binde his legges falt together, then take your knife, and cut it out as nie as you can, and let him bled well : then take a penv-worth of derbegreale, and the poalte of an Egge, and temper them well together, and binde them close to the place and he thall heale. If the Udder of your Hine doe fwell, you thall bathe them with Juy, fodden in fale 15 ere, og Ale, and fmoke them with Bony coames , and Camomell. If the 15 allockes fete be nere wome, and furbated, walh them in Dre ville mare med, and kindling a few twigges, or fprayes, when the flame is Bone, caule him to fand boon the hot imbers, and annount his homes with Tarre, and Ople, or Dogges greale. They will neuer lightly halt, if after they have bene laboured, their fiete

be walked well with cold water, and afterwards their patterns, and the places betweene the Class be rubbed with olde Swines greate.

The scabbes, or mangenelle, is gotten away with rubbing Skebbes. them with stamped Garlicke, which also cureth the biting of a madde Dogge : besides, Peneriall, and Brimstone, beaten and boyled with Dyle, Thineger, and Mater, and after whilest it is marme, alittle Alom made in powder, and cast into it, doth cure the scabbe, being annointed in Sunshine. Dthers ble to annoint them with Butter, and Bullocks pisse : and some againe take Rozen, Tarre, and Mine, and ble it as a Pultesse.

Hide-bound, is when the fkinne fo flickes to his backe, that Hide. pour cannot take it up from the ribbes, which happeneth by fuffe, bound. ring him to take cold after his fweat, oz if after his labour he be inet with raine, og brought low with fickenelle: which, becaufe it is bery dangerous, you must loke that when they come from their labour, and are bot, you fprinchle them with Wine, any give them fome pieces of fat, oz fuet. But if thep be already hide-bound, it is god you fitthe fome Bay leaves, and with the Inarme decocion thereof, to bathe his backe, and to rabbe him all over with Wine and Dyle mingled together, and to lift and plucke by the fkin round about, and that a broad while the funne thineth. If his blieding ftench not after the cutting of the baine. the remedy is, to lay his owne doung to the place. A common medicine for all difeafes (as Vegetius reporteth) is this: the rote ofa Sea Onion, the rote of a Boplar, and the common Salt. of each a fufficient quantitie, lay them in water, and give it your Cattell to brinke till they be whole : which allo being given in the beginning of the Spring , for the space of fourctiene papes. preferneth them from all fickenette. Pow that pou have heard in inhat fort the old hulbands did remedie the difeafes in their Cattell, I thall briefely declare buto you the remedies that are observed in sundry diseases at this day, whereof I have chopt in fome among ft the medicines before.

First, for the Durraine: it beginneth at the first in the throat, For the and swelleth in the head, and rotleth with much noyle in the Murraine. throat, whereby it is perceined : take a quart of newe Hilke, halfe a peny-worth of Butter, a peny-worth of Garlicke, two

127

peny-looth of Chalify Saffron, two peny-worth of Cinamon. tipo peny-worth of Surmericke, a quantity of Dearbegrace, a quantitie of Bittony, mingle them all together, and give it him Inarme : then take an aule, and thruft the toppe of his note bus maro, take but the berp toppe to thauf through , and net to the headward, then let him blod in the necke almost a pottell, if hee beable : faue the blod, and let it fand, if it change, he may line, if not, bedieth. Another for the fame. Tabere be fwelleth about the faines, and by to the cares, open him buder the fawes to the rote of the tonque, and get in your finger, and open it a god wisenche, then take a god pace of ruliy Bacon, and a handfull of Kaggewort, fampe them well together, and fill the hole full fnith it: then let bim blod at the nole, and the tonque. A drinke for the fante. Take Tanfie, Dearbegrace, Lungwort, Dplove. Time, of each a like quantitie, halfe an handfull, fampe them. and take a quart of god Ale grounds, and fith them a wallop.oz two : take and fraine it , and put the licour into a beffell , put thereunts a venu luoith of Graines, a penu worth of long Deve ver.aveny-worth of Ortment, and an peny-worth of Fencareke. fo giue it the beatt luke-warme.

Forthe Lungs

The achenelle of the Lungs is perceiued, if the Dewlan be hard cloled together bery farre by : allo in hard fieling the hide boon the backe. it cracketh, or inappeth much : allo a thort hule hing, and thaufting out the tongue withall: it it be much perified on the left fine, he is bucurable, which you thall perceive by the Dide, which will fick faff on that fibe, and like wile the Delplan: if he be farre gone , he will groane much. The remedy for this difcale, is to take long Depper a peny-worth, round Depper aa much, of Craines this peny-worth, of Durmericke two peny. worth, of Fenegreke two penp-worth, of Dace as much, Cloues a penp-worth, of Anificos a penp-worth, of Badder the venyworth, of Triacle of Gean; the btter rinde of Walnuts deped. and made in powder, Juniper berries powderd, Dre Lungwort, Fetherfelbe, Dearbgrace, Danfie, Hople Dintes, Bayberries powored, a peny worth of Garlicke, a quart of Chamberlie, a pinte of Salt, a quantitie of Butter. Setter him befoge. og ime incolatly after this medicine giuen.

Setting of Cattel

The order of Settring a Bullocke is this : take Settermont, otherwile

otherwife called Bearefote, and Garlicke, like quantitie, piele and frampethe Barlicke, and pare the Setterwort cleane, and wappe them well in Butter, then cut the Dewlap two inches behinde the Micking place, to the breft ward, and cut it along fivife about two or their inches, and will the Dewlap with thy finger. o: with a flicke, round about one fide from the other, as much as pou can polliblie : Then put the Setterwort, Barlicke, and Butter, as much as thou canft well out in, and thus doe on beth fides the Dewlay, then roivie him to that the ftring mavaoe through both holes on both fides the Dewlay, alwayes remems bring to cut the Dewlay a hand broad, or about the bottome, and in any wife to rent him to the bottome, before you put in the medicine. The third day after the Settring, loke to the over ning the wound, and let out the corruption (if it be come downe) if not, put in more of the medicine, and turne the rowle: and if it be much fluollen, and hard, and will not rot, take a hot iron, and take by part of the loare, the Chinne, and the fleft, in fuch place as thou fait molt convenient, to as it come not to the bone, and thruft the iron through on the one fide, and on the other, or once right buder, if the fivelling be right beneath, and Tarre him well If the flies be buffe. Which flies, if they channee to get into the foare, take a cloth, or towell, and lappe it about a flicke, and put it into fkalding hot Tarre, and fo among the Hagots, fearching energ comer well. After you have pearced him with the hot iron. remember to take a little flicke, and Towe, and Dipping it in Sallet Dule, or moil Dule, to rubbe the hale where the prom paffed.

The fickencife of the Gall, is knowen by the running eyes, The Gall, or if he have much yellow care-ware : it is also difference by the or Yelbrowne yellowes onder the upper lippe: the Ture is this: Take lowes. Thamberlie, good Ale-grounds, or Bére-grounds, hard Swfe in powder, Gallwort, beaffs Lungwort, Planten leaves, Pearbegrace, Pempfed, or Pempe toppes, Garlicke flamped, a peny-worth of Aqua vire, for a great Bullocke, take almost a quart of this medicine, for a finall Bullocke, leffe : when hee bath drunke, take Salt, Loame of the wall, and leavened bread, and rubbe well his tongue, and all the rose of his mouth : then wath his backe, and chafe it well with Chamberlie, luke warme: gather

The third Booke, gather all thefe Bearbes in Summer, and hepe them, and make

Forthe Liuer.

The Blaine.

The Sprenges.

The Staggers.

them in powder. This Bedicine ferneth likewife for the Lungs. If a Bullocke be difeated in the Liner, he complaineth firft in the leages, which will to gricue him, that he thall not be mell able to frand, though he be in god liking: the remedie is this: Take a quart of good Ale (if it map be gotten) if not, take Bere, put therein Liverwost a god handfull, Wosmewod as much a peny-morth of Garlicke, halfe a peny-worth of Dadder, a penymosth of round Devver, as much long Devver, a veny-worth of Cloues and Dace, a peny-worth of Triacle, mingle them toges ther, the Bearbs being powdied, and give the Beaft a dinke luke warme. The fignes of the Blaine are thefe. Swelling a. bout the face and the eve, and fome what in the body : if it be in the body, it fwelleth much there : the onely remedie is : Take and fearch him in the mouth, if you perceiue blifters buder the rotes of the tongue, og other place there-abouts, then cut them to the bottome, and let them out, and rubbe the place with Salt : fearch him allo in the bodie at the fundament, by the arme of hand of fome young Arivling : and when his arme is in as farre as he can, let him turne his arme byward, and fiele for the Blaines, or Bliffers, and breake them with his navles, pulling them quite out : fie that he annoint his hand well with Greafe or Sove. There is a difease called the Sprenges, wherein he will smite his head backward to his belly, and fampe with his legges : pou mult put pour hand into his fundament, as far as you can, & pull out the dung, then thall you finde bloud, pull the bloud quite out, and take a good handfull of Bay Salt, and putit in at fuile, as far as you can: if he have this difeale, he will fivell in the bodie, and coust much to dung. If he have the Staggers, he will loke bery red about the eyes, and caft his head backloard : take the fourth part of an ounce of Depper, bauileit, and take halfe a vinte of tharve Aineger, warmed bloud warme, and powe it into his Poffhills, & hold his head well byward, and let him bloud at the The Dafe Dole. If your Bullocke turne round, and haue the Dafie, you mall take him by the head, and fale byon his forehead, and you Shall fele it with your thumbe : cut the faime croffe wife right in the place, and wipe away the bloud as it both encrease with a cleuf, and binde a cloth ouer his head, and kope it warme. If pour

vonr Dren Diffe bland, hepethem foure and twenty houres from Piffing of mater and then give to every one alittle diffull of rennet curds bloud. in a quart of milke, let them not drinke in foure houres after. There fometime runneth a bloud byon the backe of a Bullocke, which will make him draw his legges after him, and goe as if hie were fluaide in the Chine : cut off a toynt or two of his tayle and let him blede : if he blede to much, knit his taple, og feare it. If he have the Banties, he will pant much, and thake in the Panties. Flanke, and fometime thake downe: give him a little rennet. with Sote and Chamberlye. If he fivell of the Taint, or Sting - Taint. wozine, give him brine, falt, and tryacle to drinke. If he be Bide- Hidebound, frampe the leaves of Flozedelife, fraine them, and give bound. the beaft to drinke : if he chaunce to have a ftroke in the eve, take the inpee of Smalledge. Fenell, and the white of an Gage. The Garaple is a fwelling befide the eye bpon the boane, like a botch, Gargyfe. oz a bole : if your 15ullocks haue it, cut off round about it pieces of finne as broade : then cut allo round about those vaces one narroiv lave of the fkinne, which will kieve the difeale from his lippes, for if it come to his lippes, it is uncurable : Then take Chamberlye and Salt, and fethe them together, and walh the places where the fainne is cut off, and walk it there with evening and morning, till the fwelling be gone, fcraping off the fcabbes. and other filth at every dreffing to the quicke, till the fwelling be gone, not sparing it to long as it watreth and runneth : when the fwelling is cleane gone, take Paruoile and Boney, boyled together bloud inarme, and annount all the faid places, which will both heale it, and caufe the havze to come againe. We have For all cortaine medicines belides, that we ble generally for all dileales, di.eales, as this, luhich is bery foueraigne : Take a handfull of beafts Lungwort, a handfull of other Lungwort that foructh for the pot, a handfull of inward rinde of Elder, a handfull of Kelve, thoppe them finall, and put them into a pottle of god Ale, let them fiethe till they be loft, then firre them, and put in the liquour a peny-worth of long pepper, a peny-worth of graines a veny-worth of Liquevile, a peny-worth of Anificote, a halfe peny-worth of Comen, a peny-worth of Turmericke, all well beaten. and put ine to the liquor, with a quarter of a pound of Madder: and whilf all these do lith, take a great bole bilb, and put therein a handfull of

H.

Hay

129

Bay falt, halfe a handfull of Garlick foure nein land Cages. fheis and all, two balls of Detment. grinde all thefe things with a Des Rie.in the boluic: then lake the liquour afuzclaid from the fire, till it be halfe coid, and put the warme liquour into the bowle, buth the Garlicke, Salt, Cages, and Satment, bach it will together, and give the Beaft to bainke bloud warme, or a little more. Suce ther of the fame fort is this : Two veny-worth of Comen-a veny-worth of Orains, tho peny-worth of Andfeeds, a peny-worth of 15ap-berries, a veny-worth of fenecrik, a veny-worth of Ture mericke, one ball of Detment, a peny-worth of Triacie, or rae ther for the Lungs, their or foure fromefuls of Matter, beat them all together, and put them in the quarts of danke, fet them on the fire, till they be bloud-warme, give the beaft no drinke in the morning before, nor till none after, in the Summer, and in the Winter till night : oz if pou will, you may give them this medie cinefollolving : Take flint fote, that is hard dived byon a voff or role, and beat it into volvder with falt, then take running way ter, and firtheit, rank Juie, with the fote and falt, and when the Juie is fost, take and wring out the invce, and fraine all together through a linnen cloth, and give it your cattell to drinke bloudwarme, in the Spring, and at the fall of the leafe. Bubale, called of the common people Buffes, of Plinie Bilonte, are common in Italy, bepond the Apenin : a wilde and fauage Beaft, that for their fierceneffe, are handled with rings of gron in their noles : of colour blacke, their bodies large and mighty, their leages well fet, and knit bery frong : and in respect of their bodie, fpost, their v hornes large, crained, and blacke, their havre finall and thort, their tayles little : they are in those parts bled for carriage, drawght, and like bles, as the Ore. Of the milke of this bealt are made Chafes.that about Rome and other places are greatly effamed. Columella counts them to be ftrong meate, and heavy of digeffie on. Loe here is all that for my thare 3 haus to fap touching mp cattell : new Hedio, hold you the candic another while.

Sheepe.

The Buffes.

> HEDIO. Pert unto the greater fort of cattell, the chiefeft place is to be alligned to Shiepe : yea, if you confider the great commolitie and profit, they are to be preferred before them : for as Oren forue for the tilling of ground, and necessarie ble of men lo is to this pare beaft alcribed the fauenard of the body for

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130

the Sheve doth both with his flace apparrell bs, and with his milke and wholefome flell nourily bs (as the Boet witneffeth.)

Poore beaft, that for defence of man, at first created walt, And in thy fwelling vdder bear'ft, the iuyce of daintietaft: (faile, That with thy fleece keepft off the cold, that flould our limbs al-And rather with thy life, then with thy death, doeft vs auaile,

Df Shipe there are fundap bacdes. Therich and a champion countrep breedeth a large and a great theye: the barren and the cliffic, a realonable fature: the wilde and the mountaine ground. a fmail and a werich theye. The old husbands did greatly com. mend the brede of Milet. Appulia, and Calabria, and molt of all, the breeze of Taranto mert of Parma, and Modena, At this day, for the finenelle of their flice, are molt in price the flicpe of Engs land, of Germany, about the Bhine, and of France, Varro couns felleth all fuch as would buy Ewes, to have their chiefe confides ration of their age, that they be neither to old, not to young: the one of them not pet come to it, the other already palt profit: but better is that age, whereof there is some hope, then where there felloweth nothing but a pead carkaffe. Bour beft is therefore Thechoife to buy them at two pieres old, and not to meddle with fuch as of Ewes. are past their : their age is to be knowne by their teth : for the tith of the olde ones are worne away : next muft you loke, that your Ewe have a large bodie, Depe wolled, and thicke over all the body, specially about the necke and the head, and god floze byon the belly : for such as were bare necked and belived, the old husbands alwaies refused. The necke muft be long, the bels ly large, the legges thort, though the theye of England be long leaged, the tayle in some countrey Most, in others very long: for in Arabia fonce have tayles a cubite long, but wonderfull broad : others, (as both Herodorus, and Elianus affirme) three cubits long, to that the Shepheards are forced to the them by, for being hurt with traving byon the ground. In Agypt a Kams taile hath bene found to weigh pr. pound and more. The Ram Rammers mult have his bounce great, winding inward, and bending to the face, though in fome places they have no homes at all, and yet no better Rammes : the homes muft rather crokie inward then

15 2

then grow Araight by. In some Countries that are wette and Rozmic, Goates & Kammes are to be cholen that have the areas teft and largeft homes, whereby they may defend their heads from forme and tempeft: and therefore in cold and formie couns trics, the homed Kams are beft : in milde and gentle clymates. the vole. Befide, there is this inconvenience, when he knows hime felfe to be armed, he will alwaies be fighting, and varuly among his Ewes, and though he be not able to ferue the turne himfelfe. pet will he luffer no other Ramme in the Flocke, till bebe euen cloved, and lamed with letchery. The Bollard on the other fide, finding himfelfe bnarmed is milder and quicter by much : where. fore the Shepheards, to reffraine the rade of the buruly, doe ble to hang before his hornes a little bord with tharve pricks inward, which keepes him from his madnes, while he perceiveth himfelfe to be hurt with his owne bloud : others fap, that if you vierce his homes with a wimble, nert to the cares, where they winde ins inard, he will leave his brawling. In some places also the Ewes are horned : but to the Ramme. His eves muft be browne, his earesmuft be great, his breft, foulders, and buttocks broad, his ftones areat, his tayle broad, and long : you must loke befide, that his tonque be not blacke, not peckled, for commonly fuch will get blacke and pycd Lambes as Virgill noteth :

And though the Ramme in fight be white as fnow, If blacke within his jawes his tongue be wrought, Refuse him quite, left if he leape thy Ewe, He doe infect thy Fold with colour nought.

When to

Buy not your Shave but walked and bulborne, that the colour may plainelyer appeare: the white colour, as it is the beautifulleft fois it the profitableft. In March is your beft buying of Shape : buy theepe for Shepheards like fuch as have well worne out the winter. Wholoever will be a they mailter, must regard the abilitie of his ground: fog it is not enough to have paffure in Summer, but thep muft be well prouided for in Winter : in any wife you muft haus foge of paffure : and better it is, and moze profitable to the Mais fter, to keye a few fiere well, then a great number with frar litie of palture, Florentinus is of that fancy, that he would your number thould

mould rather be odde then even thinking that number more fore tunate, for the healthineffe, and long continuance of the cattell : but thele are superstitious topes , as are a great number of ther, imagined by the faithleffe. Be fure every piere once, to make your muffer, and fupply the places of fuch as are dead. or ficke, with a new and a found number, to that the Mafter benot Deceined with an old bup:ofitable flocke. The hardnelle and erus eltie of the cold Winter, both oftentimes beguile the thepheard, and deftroyeth many of his flocke : whereof (prefuming of their Arength in the end of the Summer) he had made no lupply and therefore Columella is of opinion, that the age for brad ought not to be leffe then their yeres, nor aboue eight, both becaufe that neyther of the ages is mate to be kept : and also that whatfocuer commeth of an old focke, hath lightly a fmacke of his old parents imperfection, and proueth either to be barraine or weake. The feife fame Columella would have the Ewes to be put to the Ramme after they had paffed two pares old, and the Ramme to be of fine væres old, and after feauen, to decay. In many plas ces at this day, they luffer both the kindes to bied from two pare old, till nine : but before two pieres, it is not god to put eyther the Kamme, or the Cive to breed, although in most places they fuffer the Eme at a parce old. The Ramme is put by his purpole, by the Wlickers, of Bulrithes, tyed to the Ewes tayle, but more commodioully, by going in feuerall passures : howbeit, they are not commonly feuered, but fuffered to go together. The Kammes that you would have to ferue your Ewes, mult afoze the bloffor ming, bekept in god pasture, for two moneths, whereby they may be the better able to doe their bufineffe: but in our country, we commonly luffer them to feete together. To increase their lufts, you thall give them in their paffure the blades of Onions, oz Bnot-Graffe: They rather couet the old Elves then the yong, becaule they be ealier to be entreated, and the Rammes them felues in age be the better. By unitting of the right from you thall have Ewe Lambes, and of the left, Kamme Lambes : allo their blottoming in the Porth-winde, getteth Kamme Lambes, and in a South winde, Cive Lambes, one Kamme (as Didymus affirmeth) fufficeth for fiftie Clues : when they have all cons coined, the Rammes mult againe be banifped, for dangering

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and harming the Ewes. During the time of their blottoming. they are to be watred in one place (as both Varro and Plinic af. firme) becaule the change of water both difcoloureth the moll. and dangereth the Lambe. The policie, of lacob the Batriarh. in procuring of rartie coloured Lambes. is well enough knower. The beff time for bloffoming, is from the fetting of the Baers ward, to the fetting of the Gale : (as Varro and Columella have Insitten) which is (as Plinie interprets it) from the third Fdes of May, till the thirtcene Kalends of August: others thinke it gon all the rore long, many preferre the Winter Lambe before thefe that fall in the Spring, as a creature that of all others hefe banketh his Minter brath. The thunder, if the Clues goe alone makes them cafe their Lambes, and therefore it is good to let them gee with company for anoiding that perill: they gee with Lambe one hundreth and fiftie daies, or fiue moneths: fuch as are afterivard dammed, are fieble and weake, and fuch were of the old insifers called Cordi : for the most part they being but one Lambe a ricce, vet offentimes floo, and if they be well feo. fre: at a time. It hath bene fene in Gelberland, that five Cives have had in one være five and twentie Lambes : it mav fæme verads uenture to many incredible, and yet no great marualle, fince they haue twile a viere molt times two, and fometime fire at a time. The Shepheard muft be as carefull as a Didwife in the peaning time, for this pore creature (though the be but a Shiepe) is as much tozmentes in her delinery, as a fizew, and is oftentimes the more dangereully bered and pained in her labour.in that theis als together without realon : and therefore it behoneth the Sheps heard to be failfull in medicining of his cattell, and fo conning a Dibloife withall, as if not require he may helpe his Cive, what danger focuer happen. Ehe Lambe as fonc as he is fallen, muff be let on fate, and put to the dammes boder, and oftentimes his mouth held open, the milke muft be milked in, that he may learne to fuche, but befine vou doe this, you muft be fare to milke out the first milke called Coloffra, whereof I will fpeake hereafter : for this, creept fome quantitic be drawne out, both hurt the Lambe: if the damme die, you muft fuckle it with a home: if the Lambe will not of himfelfe fucke, he mult be put to it, and his livs annointed with fwat Butter, and Swines areale, and fealoned a.

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little with fivet Bilke. As fone as they are lambed, they mult he that by together with their dambes, whereby both the dambs may cherifh them, and they learne to know their dambes. Afters ward , when they beginne to ware wanton, they mult be feuered with Dardelles : 02 (as Varro writeth) after ten daies they muff he tied to little flakes with fome gentle flay, for burting of their jounts, and waring leane with to much play. The weas ker muft be feuered from the ftronger, for hurting of them. And in the Mouning betimes, before the flocke goe to paffure, and in the Quening when they be ful, the Lambs muft be put to their Dams: and when they ware frong, they muft be fed in the houle, with Clouer, and fuicte graffe, oz elfe with Branne , and flowe. And when they have gotten greater frength, they mult be let out with their dammes about none, in to fome funny and warme Close nereadiopning. In the meane time, you muft not deale with the milking of Ewes, fo thall you have them to beare the more woll, and bring the more Lambes. When the Lambes are taken from their rammes, god had muft be had, that they pine not away : and therefore they must be well cherished in their toeaning time with god patture, and well kept, both from cold, and extreame heat. Pow after that they have forgotten the voder, that they care not for their dammes, then thall you let them fied with the flocke : howbeit in most places the Lambes are fuffered to feed in the flocke together with their dammes, and to fucke till harueft time, till the dammes themfelues doe weane them. Varro would have you not to geld your Lambes buder five monethes old, and that in a featon neither to hot, not to cold : but erperis ence teacheth bs, that the beft gelding is buder the damme when they be youngelt : for in the elder (as in all other bealts) it is dangerous. Those that you will kepe for Rammes , you muft take from luch Ewes as ble to have two at one time. The beft palture for thepe, is the Graffe that is turned by with the Plow, and groweth byon fallowes: the nert is that, that groweth in byy Deddowes : the marifyly ground is to be refused, and that which groweth niere buto Lakes and Fennes : the plaine and the champion Fields and Downes are beft for the delicateft and fis neft wolled Shiepe. To be fort, the florter and finer the Graffe is, the mater it is for Shape ; and yet is there no patture fo

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and, or to fine, but with continuall ble pour Shape will be weary of it, except the Shepheard remedie this fault with giving them Salt , which (as a fance to their fode) he nut fet readie in Summer when they come from paffure, inlittle troughs of woo. by licking whereof they get them an appetite both to their meate and their Diffie. for where as Sheve wareth fonelt fat with fpatering (Arilforleaffirmeth) von molt in Summer euery fift Day jet them have Salt, a pecke to every hundred : fo thall your face be alwates healthy. ware fat, and veid you plenty of milke. Bozeoner, againft the Winter rotte, oz hunger rotte, vou muft mente to forde them at home in Cratches. They are beft fed in the warmer countries, with the leaves and broukings of Elme and Alb, and the Baie that is made after Barueft in the end of Sammer, becaule it foftelt, and therefore flocter than the other. With what hede and carefulneffe this cattell is to be fed, Virgil declares, who wils a regard to be had of the time, both of their watring, and fæding.

> When Summer faire with Wefterne windes doth call, Your luftie flockes to woods and pafture fend Betimes, when day doth fpring and ouer all The gladfome graffe the hoarie dew doth bend. From thence when as the fourth houre of the day, With loftie Sunne doth make them drie to bee, To wels or waters deepe go take thy way,

And make them drinke in troughes of Oken tree. But in the none time, and the heat of the day, you must drine them to the ballies, and shades, (as he faith) a little after.

Wherefoeuer of Ioue the ancient Oken tree,

His broad and mightie branches fpreads, or where In facred Groues of Holmes the (hadowes bee.

After when the heat is pace, you mult brine them againe to the water, and fo bring them againe to field.

When Sunne is fer, and Euening flarre appeares,

Then cooles the aye, and dewie Moone fhee cheeres. Varroaffirmeth, that they biuided their paffuring times in Puglia after this manner. First they put them out to paffure betimes in the Doming, when as the betwie graffs both farre creed in pleafantneffe, and fiwirtneffe, the Graffe that being burnt with

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the heat of the Summe, is ouer day. About none againe, till it ware coler, they are to be briven buber fome colo, or watrie rochs, and broad finadoluco tras, and toward the cuening be fuffered to fiede till Sunne let, alwaves hauing regard, that in their dzining. ther heads be from the Summe : for no beaft is fo tenber headed. Within a little after the fetting of the Summe, they muft be bais uen to luater, and after fuffered to fiede againe, till it be darke : for then is the Dafture fweteft. This order is to be obferned from the rifing of the leaven Starres, and the lefter Dogge, till the later Æquinoctiall. The like both Columella and Plinie teach. that after the riling of the Dogge, the flocke muft afore none be brigen Wieffward, and fiede with their face toward the Wieff. and afternone they muft be brought againe Caffwart. The fields whence the Come is newly had off, is god to paffare them for this caules ; both for that they are well fedde with the leas nings of the fleanes, and that with the trampling of the frame, and dunging, they make the ground richer against the next fowe ing : but our Countrey men doe not well like, that Shave thould firde byon the cares of Wheate. The Daffuring of them in the other lealons, as Minter, and the Spaing, differs in this point: that they put them not abroad till the Sunne have drawne by the dew, and hurtfull bayours of the ground, and fo fiede them all the Day long, thinking it infficient to let them drinke at none : but our husbands blenot to luffer their theye to fiede abroad in the Summer time, neither before the Summe rifing, nozafter the fetting, by reafon of the dely, being moze burtfull in Summer, then in Winter. In Winter, and the Spring time, they kepe them in a Fold, fill fuch time as the Sunne hath Dealone by the Rimes, and hoave Frofts from the Fields : for the froffie graffe, at this time of pere, flops their hears with Schume, and fils their beiliesfull of water : and therefore in the cold and wet featons of the piere, it is enough to let them drinke once a day. Moreover the Shepheard, as allo the kever of all cat, fell, muft deale gently and louingly with their flocke, and comford ting, and chieving them with finging, and whifeling : for the Arabians (as Alianus writeth) do finde, that this kinde of eattel taketh areat delight in Mufiche, and that it doth them as much god as their Pacture. Bende, they must be well ware in the drining of them.

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them, and ruling of them, that they guide them with their boice. and thaking of their flaffe, not burting, not burling any thing at them, not that they be at any time far off from them, and that they neither lye not fit : fot if they goe not folward, they muff ftand : for it is the Shepheards office to ftand alwayes as high as becan, that he may playne and eafily differne, that neither the flow, not the areat belived in laning time, not the quicke, not the lively, while they roame, be feuered from their feilowes ; and leaft fome thiefe, or wilde beaft bequile the negligent Sheps heard of his cattell. Df their Paffuring, 3 thinke I hans fuoken fufficiently; and therfore I meane now to their you of their you, fes. or Shepcoats, whereof there ought to be a fueriall remard. that they be conveniently placed, not subject to windes, not ftozmes, and that they rather fand toward the Cafe, then toward the South. Columella would have them built low, and rather long then broad, that they may be warme in the Winter, and that the firaightneffe of the rome hurt not the young. And befide he mould have them fand toward the South : for this beaff (though his garments be warme) cannot away with cold weas ther, neither yet with the great heat of the Summer. I have fene fome Shape-houfes fo framed, as they have had their gates toward the South, and toward the Caff, that they might an livere to the featons of the være. Columella would have the Houle fet toward the South, and on the backe-fide a close Potterne, where they may fafely take the ayze. Dou must loke belides, that where they fland, the ground be made fayze and euch, fomething hanging, that it may be cleane kept, and that the brine may be well boyded alway : for the wetneffe hereof doth not oncly burt, and and corrupt their fiete, but allo spopleth their coates, and maketh them ruffe and ill fauoured. Let there bene mopffure therefore, but alwaies well fraived with drie ferne, or fraive, that the Ewes that be with young may lye the fofter and cleaner. Let their beds be very cleane, for the cleaner they lye, the better they fiede : let them in any wife be well fed, fog a fmall number (as 3 faid befoze) well fed, yeld moze profit to their Baifter, then a great flocke barely kept. Dou muft allo have feuerall partitions to keepe the meaker and the ficke, from the ftrong and buruly. And thus much of housed thepe, that are every day brought home:

Sheepe coats.

home: but in fome places they are kept abzoad, farre from either towne of house. In Forrests, and open wilde fields and downes, in these places the Shepheard carryeth with him his Pardles, and his Pets, and other necessaries, to fold his slocke withall. In the defart fields, when as the Winter pastures, and the Summer pastuers, are distant certaine miles alunder (as Varro faith) he would have the flocks that have wintered in Apulia, to be kept in Summer open the Dountaines of Kiere: and Virgill thus weiz teth of the Shepheards of Lybia :

> What fhould I here of *Lybian* Shephcards tell, Or of their Paffures write, and dwellings poore, That night and day on Downes, and Defarts dwell, Where wanders ftill the Flocke without the doore : And on the ground doth lye the Shephcard heare, While he remoues with him continually His houfe, and all his houfehold goods doth beare, His ftaffe, his dogge, and all his armory ?

The like haue I my felfe fone in Sinytzerland, and other places of Germany, where the Shepheard, lying fill abroad with his flocke, folds his flickpe in the night with Pardles, tying their dogges about them for watchmen : the Shepheard bimfelfe in a little house byon whieles, flickpes hard by his charge. The thick of Greece, Alia, and Toranto, and those which they call, Couered-Shiepe, are commonly bled to be kept in houses, rather then as broad, for the ercellencie and finencife of their woll.

EVPHOR. Withat times doe you appoint for the thearing of your Shepe :

H E D I O. The times of thearing, are not in all places one, Shearing but varie, according to the disposition of the ayze, the cattell, and of Sheeps. the countrey: the best way is to have god regard to the weather, as the thépe be not hurt by thearing in the cold, not harmed by forbearing in the heate. In fome places they have two feasions in the piere for thearing of their thépe : the first feasion for their thearing, is either with the beginning of Pay, or elfe with the ending of Aprill : the second feasion of their thearing, is about the beginning of September. Such as doe vie to theare their

haps.

there but once in the vere do commonly appoint for their feators the tenth of the Boneth of June : about which time also such as Dae fheare twife a være. Doe fheare their Lambs. Their Daies hee fore you theare them, you mult wall them well, and when they be full brie, you may theare them : they doenot in all places theare their fhere, but in fome places (as Plinic faith) pull them. The old Busbands did account for the beft Wall, the Woll of Puelia, and that which in Italy was called the Sicke Flace : the nertin awonelle they take to be the Wial of Italy : in the third place they efformed the Milelian Flice : the woll of Pullia is but thest, and mate to be wome onely in riting Cloakes. The woll about Toranto, and Canas, is thought to be palling god : but the beft at this day is the woll of England. The finer your Dafrure is, the finer (as it is thought) you thall have your woll. The woll of fuch they as are flaine by the Willolfe, and the garments made thereef. (as Ariftotle faith) are abteft to brade Lice. If von havnen in the liearing to clippe the fkinne, you molt forthluith annoint it with Tarre: when you have home them, fome thinks it and you anoynt them with the turce of fodden Lupines, Las ofold Wine, and the dreages of Ople made in an opniment: a after thie daies to walh them (if it be nere vou) in the Sea. oz if the Sea be farre of, with raine water, fodden with Salt. And being thus ordered, you chall not have them to lose their woll all the viere, but to be healthie, and to carry a diepe and a fine fixee : and therefore Virgill biddes vou,

Goe plunge them oft in healthy ftreames.

There be some againe, that would have you to annoint them their dayes in the yore, the dayes being some after you have walked them with Dyle, & Wine mingled together. Against Serpents, that many times lie hid onder their cribs, you must burne Cedar, Galbanum, o2 womans Hay2e, o2 Harts boane: in the end of some mer is your time so drawing and severing of them (as 3 told you befo2e) when you must fell your spee, that through sebleness, they fayle not in the winter. Beside, killing one o2 two of them, you must lake well byon their Liners, and if the Liner bie not sound (so2 thereby is so2 estime the danger) then eyther fell them, o2 fatte them, and kill them : so2 bery hard it is to faue them their Liners being perished. Infected Shape are more fubient

subject to scabbes and mangineffe then any other cattell, which commeth (as the Poet witheffeth :)

When coldelt ftormes doe wet them neare,

And hoary frofts on ground appearc.

De if you wach not off the sweat of the Summer with salt was fer : oe otherwise, if when they be shoene, you suffer them to be hurt with beambles, oe thoenes : oe if you put them into houses, where either Voeles, Onles, oe Alles have store : but specially lacke of goo freding, whereof proceedeth porenelle, and of poecnelle scabbes and manginesse. The sheepe that is infected is thus knowne, If he eyther scratch, stampe with his sote, oe beate him sclife with his hoene, oe rub himfelfe against a trie : which perceiuing him so to doe, you shall take him, and opening his woll, you shall finde the skinne russe, and as it were itchie. Diners men have diners remedies foe this maladie, but such as are not at hand to be had : Virgill thinks there is no presenter remedie

Then at the first to clippe away the fere :

For being hidde, it festreth the more.

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Conftantine out of Dydimus affirmeth, that the fcabbes of Shape are healed by walking them with brine, and after annoine ting them with Brimftone and Dyle. The common Shepherds, when they perceive a theye to fall a rubbing, they fraightwairs fake him, and thedding the hayze, doe feare the place with Tarre: others doe teach other remedies, more hard to come by, which are not for enery Shepheard, nor enery Countrey to ble. And if the whole Flocke be infected, it both many times fo continue, as it thall be neofull to change houses, and (which in all other difeas fes behoueth) both Countrey and appe. This one alonely medis cine have Jalwaies proued for the kieping in health of this cattell, to be most prefent and foueraigne : Take the berries of Juniper beate them Imall, and fprinchle them with Dates and Salt, mingle them all together, and give it your Shape thea og foure times in the piere : for though they refuse to eate the Juniper berries of them clues, yet for the defice of the Salt and the Dates, they will easily take them all together. If they be lowse, or full of tickles, they ble to beate the rotes of Maple, and fething them in water, and opening the woll with their fingers, they powze the liquour, to as from the ridge of the backe, it runne over the body. Dthers-

Others ble the rote of Dandsake, being well ware that they fuffer them not to tak it. It they have the Feuer, you must let them blod in the hele, betwirt the two Class, which the Poet teachethfaping :

It eafeth ftraight the flaming featers paine, If in the foot you fittike the lpinning veine.

Some let them blod baber the cies, f fome behind the eares. The foinle. a difeafe betwirt the Cliss, is taken away with Tarre, Ai, lom, Bimftone, and Cleneger, mingled together : oz powder of Herdiareale unt buon it. The fwelling betwirt the two Clies. muß becut with great warineffe, leaft you hap to cut the morme that lieth in it, foz if you doe, there commeth from her a hurtfull matter, that poploneth the wound, and maketh it bucurcable. Das fter Fitzherbert, a Gentleman of Porthamtonfhire, who was the Mafter Firzherbert firft that attempted to write of Bufbanden in England, appeine for curing teththis cure : his words bethele. There be fome Shave that of Sheepe. haue a worne in his fot, that maketh him to halt, take that thepe, and loke betwirt his Clas, & there you thall finde a little hole.as much as a great pins head, wherein groweth five oz fire blacke haires like an inch long. oz moze : take a Charpe pointed knife, and flit the fisin a quarter of an inch long aboue the hole, and as much beneath, and put thy one hand in the hollow of the fot, buder the hinder Cle.and fet thy thumbe aboue, almost at the flit, & thauft the finger underneath forward, and with your other hand, take the blacke haires by the end, or with thy knines point, and pulling the haires a little and a little, thauft after thy other hand, with thy finger & thy thumbe, and there will come out a worme, like a piece of fleth nereas big as a little finger: when it is out. put a little Tar in the hole. s it will thortly mend. If they happen by the extreame heat of the Sunne to fall downe, and to forlake their meat, give them the inice of the wilde Biete, and caule them belide to eate the Bats. If they harply drain their breath, flit their cares and let them bled. If they be troubled with the Cough, Almonds beaten with Teline, and powerd a prettie quantitie into their notheils, remedieth them. A Shape, or Swine, that bath the The Mur- Burraine of the Lungs, you Gall helpe by thatting through their care, the rote of Setter wort : this fichneffe doth commonly .zaine of the Lungs. fusing of want and fcarfitie of water, and therefose (in Summer time

time foreially) you must fuffer no kinde of Cattell to want ma. ter. Their leages, if they haven to be broken, are to be cured in like fort as mens be, being wrapped firft in woil dipped in Dple, and Baine, and afterward fylented. The young Lambes, and Lambes, other Shieve, allo while they goe abroad, are troubled with feabs and mangineffe about their lippes, which they get by feeding bpon Deinie graffe: the remedie is ipplope and Salt, of each a like quan, titie beaten together, and their mouthes, their pailats, and their lippes rubbed withall : the vicerous places must be annointed with Hineger, Tarre, and Swines greafe. If they chaunce to Eating fwell with cating of any Manne, oz benemous graffe, you thall woornes or venolet them bloud in the beines about the lippes, and under the mous faile, and after power into them Chamberlye. If they happen graffe, to fluallow a Holfeleach, volve into them frong and tart Uis never warme, or Dyle. Against the Murrion, or the Rot. I have fiene given them, certaine sponefuls of Bzine, and after a little Tarre : this medicine was bled by Baiffer John Franklin of Maifter Thart in Bent, who was in his life time a fki full husband, and a lin. god houlekeper. In like fort haue 7 fiene this medicine : Take for enery fore, one peny-worth of Triacle, and likewife one little handfull of Demploede, ground Juie, Cloer leaucs, and Fether, fein, as much as a Tenisball of Loame, and as much Bay falt, put thereto Thamberlie, # a little Sote, make it all luke-warme, and give to every one their fymefuls god, and after every one a little Tarre, before they goe out of hand. In fome places they ble to take the dived flotuics of Moinewod, and minaling them with Salt, they give them to their ficepe, as a generall mes Dicine against all difeafes. This medicine is commended by Hieronimus Tragus, both for all waging of any paine, and driving as way any hurtfull difeates from Cattell.

Evphor. God Hedio fozget not to speake something of pour Goates.

H E D 1 0. Goates have many things common with Shape: Goates, for they goe to Bucke at one time, and goe as long with young, as Shape doe: they yold commoditie with their Fleid, their Dilke, their Chale, their Skinnes, and their Hayre : the Pairs is profitable to make Ropes of, and Packes, and divers like infruments, belonging to Sea-men, by reason that it neyther rots with

with molfure, noz is callp burnt with fire. Varro maketh mens tion of two fortes of them, a heary fort, and a fmoth. Such as haue Wennes , oz Wartes, bnder their chinnes are taken to be moft fruitfull : their Clovers would be great their Bilke thicke. and the quantitie much. The hie Goate would be fofter havzed. and longer, his pecke fort, his Throat boll dever, his Legacs felhy.his Cares great and hanging : it is thought better to buy the whole focke together, then to buy them feuerally. At the Thinne of curry one of them hangeth a long beard, which Plinie calleth Aruncum, by which, if any man traw one of them out of the flocke, the whole flocke (as amazed) fland gazing buon him. The hie Goate, becaufe of his beard, and as (Alianus fasth) by a certaine inftind of Pature.preferring the male before the female, goeth almaies before his woman. The bargaining for this Cattell, is not after the manner of bargaining for Shave: for no wife man will promife that they be frie from fickenelle. being as they be, neuer without the Aque : but be affures them that they be well to day, and can drinks. One thing is to bee wondzed at in this Beaff, that he draweth not his winde as all other beafts doe at his pole, but at his Cares. The beft kindes of them, are those that being forth thouse a piere, and such you muft fæke for pour brede. The Goate is able to engender at leauen moneths olde, being even as lecherous as may be : for while he is vet fucking, he will be boon the backe of his bamme: and there, fore he wareth feeble, and bnable, before he be fire pæres olde, being noiv loked and confumed with his overtimely luftinelle of his youth : and therefore after he come to be fue pare olde, he is no longer to ferue pour turne for bred. The time when pou fhall fuffer them to go to rutte, is in Autumne, a little before December, that at the comming of the Spring, and bloffoming of the tres, the young may be brought forth. The Goale goeth with poung (as 3 faid) five moneths, as the Shape both : the brings forth commonly thus, and fometime fire (as Plinie witneffeth.) Such as beare thile, pou muft kepe for pour focke, for the renuing thereof, and the encrease. As touching their breeding, you snuft in the end of Autumne feuer pour he Goates. The pound Beates of a piere old,and thuo pieres, being forth Bitbes: but (as Columella faith) they are not to be fuffered to being them up, ercept

ercept they be their view old : and therefore you mult away with the young, that the Goates of the first peere may breed : and fuf. fer the kipde of a two yeere damme, to fucke no longer then it is meete to be fold. Withen the Biddes are brought forth, they muft be brought bp in like fort as I told pou of the Lambes : faving that the wantonnelle of the kidde is more to be reffrais ned and heolier to be kept in, and muft be fed belide their milke, with young bowes. Plinic affirmeth, that they be fearce good for himse at this pares old, but if they palle foure, they be Farke nought, and that they begin at feauen moneths, cucu while they be buder the mothers breaft. The first riding profe percth not, the second is somewhat to the purpose, the third forcoeth. the brings forth, till the be eight pers old, and therefore the the Goats, when they be aboue eight pars, is not to be kept : for the then becommeth barraine. Those which want homes, (as in the male kindes) of all others be the beft : for the hore ned. by reason of their weapons are hurtfull and buruly. Belides, the female of fuch as lacke homes, doe afue alwafes areater plens fic of milke : but Columella (as he commendeth the Pollardes in a temperate and milde countrey) to in a boufferous and a flogs mie Kegion he would have them horned. Such as have hornes. doe them their age by the circles of their hours : it is thought, that they fie as well by night, as by day, and that they alwaics leg their faces turned one from the other, and in that o2der also fede. Cold (as it is faid) is very hurtful to this kinde of cattell. fuecially to those that be with young as likewise the extreame heate. The wit of this bealt Nucianus reporteth , he once had experience of, whereas a couple of them chanced to mete byon a bery long and narrow 152idge, and the fraightneffe would not fuffer them to turne, and to go backward blindfold in fuch a fraight, confidering the finiffnelle of the freame bnder them, was more bupoffible, the one of them lying downe the other valled oner his body. Varrodoth commend fundzie little flockes kept feuerall, rather then great flocks together, bling foz erample one Gaberijus, becaule a great flocke is fonce fubica to the murraine, thinking fiftic to be enough for one flocke. Columella alfo affirmeth, that there ought not to goe aboue one hundred of them together , whereas of Sheve he alloweth a thousand in one flocke. The biting og boui-

137

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fing of them, is porton to all kinde of Tras, and therefoze were they in old time facrificed to Bacchus, breaufe they were fo hurte full to Clincs. Their fables Columella would have to fand bue on a ftonie ground, or elle to be vaued for this beaff nedeth nes thing bider him but a few boughes : when he lieth abzond, the Shephcard mult often fwiepe and make cleane their houfes.net fuffering any dung, og molfture to remaine in them, that may be hurtfull to the flocke : for as 7 faid before, they are feldome. without Feauers, and much fubica to the peffilence. And wheres as other cattell, when they have the Qurraine among them , as fone as they be infected, begin to languilh, and vine alway : once ly thefe Goates as fone as they be taken, though they be never to luffie to loke boon, fuedenly fall downe together, and die as. thicke as Baile : which difeale both chiefely happen, by to much rankenelle of vaffure. And therefore as fone as von verceine one og two of them fall downe, let the whole flocke blood with as much spied as you may, and suffer them not to fied all the cap, but thut them by the foure middle houres of the day. If they be Difealed with any other ficknesse, you must give them the Kotes of Kiedes, and of the great white Thiffle, Kamping, them with your veffles, and frained with raine water let them. Dinke it : and if to be this medicine heale them not , your belt will be to fell them, or to kill them, and poluter them : and luhen you buy new, being them not home too hakily, till the difper. fition of the apac be altered. 3f they fall feuerally ficke, cure them in fuch fort as you boe your Shape. Florentinus faith, if you ftamp with water the gullard of the Stock, and glue them to blink a sponsfull a piece, it preferneth both Shiepe and Goats from all nurraine and peffilence. If their bellies be fivelled with was ter, which the Grecians call idagna, the Doopley, if the fainne be lanced a little baber the choulder, it lets out the hurtfull mate ter, and you may heale the fore with Tarre.

EVPHOR. Pou have for your part very well fatilited vs, fouching the god ordering of your catteil : there remaines yet one thing for you, which you all forgate to speake of, and that is the ordering of Pilke, our chiefelt fode and fusicnance.

Milke.

HEDIO. Swing that of this cattell whereof 3 haue entreated, the profit of the Hilke is not finall, it is no great reason we

thould :

thould overvalle the ordering of the fame : for Mike (as Varro faith) of all liquid things where with we fiede, is the greates nourilher. Bilte differeth in godnelle according to the nature of the bodies that give it : as the Milke of Momen, of Kine, Shiepe, Boates, Alles, Bares, and Cammels : the greatelt nourifier is Mamans wilke, the nert Boates Wilke, whereby the Poets faine, that their God lupiter himfelfe was nurfed with Goates Bilke : the fwætelt nert Womans Bilke, is the Tammels Bilke : the wholefomeft is Affes Bilke , the Affe as fone as the is with Colt, gineth milke : the Cow, neuer till the bath calued : molt comfortable to the ftomacke is Boates milke. because he rather fredeth on Bauts and Bowes, than book Braffe. Com Bilke is molt medicinable, and molt of all lofeth the bellie. Shapes Milke is finater, and nourifheth moze, but is not to and for the fomacke, by reafon it is fatter and groffer. All Bilke that is milked in Spring time, is watricher then the milke of Summer, as likewife is the milke of young cattell: it is wholefomer being foden, specially with the Prebbles of the Sea. The Shape about Pontus, nare to the river Altace, Dee giue (as Blacke Plinic faith) blacke milke. All milke generally (as Diofcorides milke. witch is of and nourifument, but filleth the fromacke and the Error in belly with winde : that which is milked in the Spaing, is thinned the underbut loieth the belly mott. The difference of milke, is taken (as of Diofeo. Varro faith) of the palfures, the nature of the cattell, and the mile rides. king. Dfthe vakure, when the cattell is fed with Barly Graw, and all other hard and day meats, and this greatly nourilbeth. For purging of the belly, the graffe pattures, specially where the cate fell fed of purging hearbes, as Cardanus in his boke de Plantie teacheth, that if you will purge Belancholy, you must feed your milch Boate, oz Alle, with Polipodi, and foz all other humours Sene, for the Dropfie with Spurge, or Agaricke: for clenfing of the bloud, with Funitory, or Hoppes: and if you will but onely loce the belly, with Dercurp, 02 Dallowes : fo farre Cardanus. Dur countepinen doe chiefely commend for milke, the valures where groweth Spery, and Clauer-graffe, and that is all bedeckt with vellow flowces. for the cattell, the difference is betwirt the ficke and the healthie, the young, and the old : and for the milking, that is belt that is not long kept after the milking, noz

\$ 2

that

that is milked immediately upon the Caluing, a groffe buwhole. fome kinde of Bilke. To trie whether Bilke be mingled og not. pou shall take a sharpe Kush, and putting it into the Bilke, let it Drop from thence boon your Parle and if the Drop runne abroad. it is aligne there is water in it : if it hepe together, it thewes it to be pure and good. Of Dilke is made Butter, whole ble (though it be chiefely at this day among the flemings) is pet a god and profitable fode in other Countries, and much be fed of our old Fathers, yea even of the bery Patriarches (as the Scriptures witneffeth.) The commoditie thereof, belides mas ny other, is the allwaging of hunger, and the preferming of ftrength : it is made in this fort. The Milke, as some as it is milked, is put out of the Baile into Bowles, or Dannes, the belt are earthen Bannes and those rather broad then deve : this Done, the fecond, or the third day, the creame that fwimmes aloft is fixico off, and put into a beffell rather depethen big, round and Cilinder fallion : although in fome places they have other kinde of Charmes, low and flat, wherein with often beating and mouing by and bolone, they to thake the Bilke, as they lever the thinneft part off from the thicke, which at the first gathers toge ther in little crombles, and after with the continuance of the bios lent mouing, commeth to a whole wedge, or cake : thus it is taken out, and epther eaten frefh, or barrelled with Salt. The Buttermilke that remaineth of the Butter, is eyther kept for the family. or given to Calues and Pogges, as a dainty fod. Chiefe is alfo made of the Wilke of cattell, the Wilke being powzed into a Tel fell of earth, putting into it a little rennet, the quantity of a Walnut, in a great beffell of Bilke , inhereby it cunneth into Curo. Varro doth better like the Rennet of the Leuret, or the Bio, then the Lambes : howbeit, we commonly ble the Calues Rennet: . others ble fundrie other meanes, onely with heate, warming it in Tinne beffels, and after dipping those defiels in cold water, which is the liveteft and cleanliest manner : others but in the feede of wilde Saffron, and being fo turned, the Wahey both greatly purge fleame : others againe ble the Bilke of the Flage tree, and then both the Whep purge both choler and fleame: fome purge it with Drinell, or fprope of Aineger, which is of all other waies the wholefomelt : fome belides, ble the little fkinne

Butter.

Chcese.

fkinne of Birds Guilards, and others, the floluges of wilde Thiffles, oz Bartichokes. The newer and better the Bilke is, the better will be the Chele : for made of two forts of Dilke, or Bilke that is too neere fleted, it foone fow zeth, and wareth hard and nought, and is not to endure any while. Againe, being made of fat and new Bilke, it will bery long endure, and long continucth in his fatucife and foftnelle : about a two or three houres after you have but in your Kennet, the Milke commeth to a Curd, which is fraight waies put into Formes, or Theeles fats, and uselled : os if they be but fmall, they are onely preffed. with the hand. If they be of any quantitie, they have great waight byon them : it is very needfull you prefie out the Wilhap with as much food as you can, and to fener it from the Curd, and not to letit lie flowly drawning of it felfe. Those that make great Theles, have moulds for the purpole, and Waights and Prefics anfluerable. After this, they take them out of the Breffe, and lap them byon Berdels, og faire finooth Tables, in a fhadowie and a cold place, and close from all windes, fyzinchling them all over with Salt, that they may flueat out all their fowgeneffe, lays ing them fo, as they touch not one the other. When they be now well hardned and thickned, they are taken by, and prefed againe, with great weights, and rubbed over with parched Salt, and af. ter laid in preffe againe, whereby it is thought they will neve ther have eves, not be ouce otie : which faults hapneth to come when they be eyther not well preffed, or too much falted. Some ble to put into the bottome of their Pailes , the greene kernels of the Pine Apple, and milking into them, doe caufe it fo to turne. Dou may allo caule your Chiele to relify of whatloever you will, as Depper of any other Spice : but Columella counts that for the beft Chefe, that hath leaft mirture in it. The ftrongeft Chefe, and hardeft of digettion, are those that are made of Buffes milie : the next are fuch as are made of the milke of Cives, but the mildelt, and lightelt of digettion, are those that are made of Goates milke : the Cheele that is made of Marcs milke, is of the fame qualitie that the Buffes Chiefe is. There is Chiefe alfo made of Cammels milke, and of Affes milke : the Chiefes that are made of Buffes milke, are at Rome of all other cattell in areatefteftimation, Such as are touched both aboue and beneath,

139

\$ 3

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and have more then foure Pappes, you can make no Chéfe of their milke, for it will never curd. In our vaics, the best Chéfes are counted the Parmalines, made about the Univer of Po, e steined for their greatness, made about the Univer of Po, e steined for their greatness, and daintiness, of which you shall have brought into other countries that weigh aboue threftore pound. Pert are commended the Polland Chéfe, the Chéfe of Pormandie, and the English Chéfe. In England the best Chéfe is the Chessifier, and the Shropshire, then the Banbury Chéfe, next the Suffolke, and the Ester Chéfe, and the very work the Unith Chéle. The places where the best Chése is made, appeareth by this old English Distichon, better sensed, then foited.

Banbury, Langtony, Suffolke god Chefe, Cffer goe thou by, Shaophire: Theffice, Bertford may wel with the beft pere.

Df the discommoditie of Eller Chale, our English Partiall Iohn Haywood, thus merrily writeih:

I neuer faw Banbury Cheefe thicke enough,

But I have feene Effex Cheele quicke enough.

Cheele thep lay will belt endure, and is longelt preferued, if pon keps them in heaves of Bulle, or Wilheat. and if you Repe your Rennet in the inves of Byzch, you thall be fure to have nevther Bite noz Trover in pour Cheele. The Cheele that is loft and new, both moze nourily then the drie, and be moze comfortable to the flomacke.not long in digefting : the old is contrarie.acco2ding to the proverbe. Po Cheele good but thenew. Dld Cheele will become new in tatte, if von lay them in Time, Mineger, oz in Mine : if through age it be hard and bitter . let it be rubbed oner with Deale of budgied Barley, and then dip it in water. and after, the outer rinde fcraped off. Wie haue oft times proued, that hard Cheele wapped in Clouts wet in Hineger. oz Mine. and oftentimes furinchies with Wine, and fo laid bu, returne to a foftneffe, and a bery pleafant tafte. Some lap it in Leauen , cos uering it close therewith, and thereby make it foft. It is revore ted, that Zoroaftes lined twentie peres in wildernelle with Cheele fo ozdered, as it neuer wared old.

EVPHOR. Df the Whey that commeth from the Cheele Welcurds. being lod with a loft fire, till the fainefic of the Cheele swimme aloft, are made Melcurds.

H E D I O. Pon were wont to love them well.

EVMEVS. Joeindede, fpecially if there be god fore of new Milke put to the Whey. The old waiters doe teach the mile king of a kinde of white meate, not much bulike to Welcurds, which they called Melcar, and made it in this fort. They put into Melcan. a new earthen beffell Mineger , and fuffered it to bople foftly byon the five, till the beffell had drunke by the Tlineger, and into that beffell they polozed in Bilke, and let it where it might fand . ftedfaff, wherebu they had within a while their befire. 15ut me thinketh I have for my part done enough, it commeth now to vour turne EVMEVS to goe fozward with the reft.

140

EVMEVS. That the keping of Swine belongeth to Das Swine. bandzie. doth euidently appeare by the faving of the ancient hus bands, counting him a flothfull and an buthalfife hufband, that bath his Bacon rather from the Butcher, then from his owne Roofe : for there arifeth as great profit many times to bs of our olone Swine, as both to you that be kepers of areatelt cattell of your flockes : fog if Bacon be away, the chiefeft fur, porter of the Bulbandmans kitchin is wanting. And whereas Simines fleth fæmeth abhominable to the folith Jeines, I bes loue verily they never tatted the Bamonds of France, fo highe ly commended by Varro, Strabo, Atheneus, and other learned writers : which I suppose were none other but the flitches of Wieftohalp, fo greatly effæmed at this day, not onely in Germas nie, but in Kome, and that they were called by the names of Celticke Bamonds, becaufe the old writers, especially the Bricks called all Countries on this fide the Alpes, both French and Dutch, by the name of Celticke. Surely there is no beaff befides. that makes more daintie dilhes, there is in him nere fiftie diffes rent talkes, where enery other beat hath but one, and bereof came at the first the charve Lain of the Cenfors, forbidding it to be bled at suppers, the Adders, the Stones, the Tripes, and the forepart of the heads of Swine, (as Plinie witneffeth.) And molt apparant it is, that not onely the French, and the Dutch in those daies, but allo the Italians, and the Breks, nourifhed great heards of Swine. Among the Orckes, Homer maketh men. tion of one of my name, that had twelue Bogitres, every Stye containing fiftie Posklings, and Polybius Writeth, of more then

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then a thouland to be readicat a time among the ancient Italia ans, Tulkans, and French. Varro accounteth a hundled bet a fmall heard. Waholo will nourifh Dogges muft have regard both to the faircneffe, and the age. Varro addeth belide the nature, the kinde and the countrey. And because the young doe come monly refemble their parents, he would have you choic fuch as are faire, and large bodico, and which makes most to the matter, as fcuitfull as maybe : which Varro, both chiefely commend thofe that be of one colour, their wiftles would be thicke, and blacke, tf it be in a cold countrep : if in a temperate, you may nourif the fmoth. Their proportion would be long, large-fided, and bels led, wide buttocked, fort legged, and foted, biggenecked, and well brawned, thort groined, & turning byward, his taile wrinche led. The kinde is most commended, that bringeth many Wigs, the countrey that breadeth large and great : the belt age for the Boare, is a være old, though at halfe a være old they are able to ferue a Solu : one Boare is enough for tonne Solves, and more. The Sow is lufficient to bring Bigges at a pare old, and fo for feauen piere after, the fruitfuller fbe is, the foner the wareth old: at the first farrolving, you shall easily for what number the will bying forth : the will not much differ in the other. Thebeff kinde of Solves have twelve pappes, the common fort terme. o: not fo many. Query Digge both know his owne Dappe that that he was borne too, and fucketh onely that, and none other : if you take a way the Digge, the Dappe drieth, as both Plinic, and experience theweth. They were wont to be bought and bars gained for in this fort. Doe pou warrant that thele Swine are found, that 3 fail well enjoy them, that you will answere the faults, and that they be of a healthy brede ? A wet meanify. ground is metelt for this cattell, for he velighteth not in water. but in durt and more, fo much (as Varro waiteth,) that the Wolfe, as foone as he hath caught a Solu, deaggeth her to the mater because his tooth are not able to abide the heat of her fleth. And although this beak will alway with any ground, (for he for deth both in mountaines champion, and marily, yet his chiefe delight is in the woods that is full of auagmires, where there groweth floge of Dic, Conke, Bier, Baltheime, mite Slives, wilde Dates, Baleinuts, Crabbe tras, Plome tras, and Cherie:

Therie tres : for these beare fruit at divers times, and fird the Beards almoft all the whole vere. Where there wanteth woos. they must be fed from the ground, whereof a garrish is to be preferred before a dry ground, that they may moufell in the sparfy, diage by Wlozmes, wallow in the myze, and tumble in the puddles of water, which in Summer is mott neofintl. They alfo hunt after rotes, fpecially ferne rotes, and the rotes of 15ulrufhes, Kulles, and Sedges, befide god Graffe well fedeth a Simine and Dichards of Cherics , Plums, Auples, and Puts: and notwithstanding all this, the Barne, for you must fixed them often by hand, when meate fagles abroad : and therefore you mult preferne fore of Acornes, in Ceffornes in the water, or dived boon imokie flores, allo Beanes, Deale, and Tares muff be given them, and not fo much as 15 arley fpared : for this kinde offeding both make them faire, and not onelp fats them, but ais neth the field a pleafant talte. When they are pet voung, and fucke, both they, and their Dammes muft be well fed, they muft be put to feede early in the mouning, afore the heat of the Sunne, and after kept in thadeiny places, where there is god floze of was ter. Afore they goe to palture, they muft be medycined, left the Graffe fearre them to much, by which they will be greatly weaks ned. An Wainter they muft not be put abroad, till the froft be off the ground, and the Ile thawed. And though the Swine will. runne at the knowne vorce of the Swineheard, vet V arro will have them brought both to pasture, and homeward, with the. found of a Horne : their meate muft be given them feattered thin. to thall both leffe fuffice, and the greater thall not harms the Imailer : as foncas they heave the Boune, though they be never fa farre off in the Wands, they come running with all haffe. Polybius telleth, that the Italians ble not to follow their heards, as the Griekes and others doe, but going a prettic way before them, they blow their homes, their Beards being acquainted with the blaff, doe foliow them in great order. They doe to weil know, and obay the call of the Swineheard (if we may believe A won-Alianus, that when cortains Louers, landing opon the Coaft of derful Tulkan, and taking great numbers of them out of their Sties, know-carried them about, the thieues having weighed by their Anker, ledge in and being buder layle, the Swine byon the hearing of their

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kievers vovce, suddenly ran to the one fide of the Shivve, and os nerturned her, wherebp(the Dirates Diofned,)the Swine came fafe to land to their Mailters. As 3 have here told vou of the conditions of the Boare and the Solve, and of their kaping; fo will I now them you the manner of their brading : The 15200 ming time is rechaned to be from Winter, till the twelfth of Barch, fo thail you have them to farrow in Summer : for the Solve going foure Boneths with pigge, farrolveth in the fift. She is with pigge at the first breming, but they ble to let them gee often to Boare, becaule they tone milcarrie ; and if you will haue two farrowes in one pære, vou mult put pour Solve to Boare in Februarie, oz Tanuarie, that the may farroin in Avrill or may when as there is and paffure abroad, and Bilke is in his chiefe firenath : and when they be weaned, they may well fiede boon frato, & grottens : and after, the Sob may farrow againe in the end of Autumne : for Varro faith, her farrowing times are to divided for the nonce, as the may farrow twile a være, while the bath foure Moneths to beare them, and tivo to fiede them. As some as they be with place, you mult keepe the Boare from them : for with his burulineffe, he maketh them to caft. Boung Swine for brede, mult not be leffe then a være olde, as Varro would have it : holubeit they begin at eight moneths, and contis nue leaven peres. The Boare beginneth at eight moneths. 02 fire, and continueth well foure væres, and after, at thee of foure pares olde, you may geld them, and fat them. Some would not have you kipe by aboue eight, others not aboue fire : not that the Bow is able to kepe no more, but that the that kepeth more, fone fayleth, Varro reporteth, that the Sow of Ancas Lauinus, farrowed at one time thirtie white pigges : but it is monftrous when the farroweth more then the hath paps. Cuery Solo mut haue her Stie by her felfe when the hathfarrowco, and not fuffes red to goe with the whole Heard, as other cattell are, but little Coates to be made for them, wherein they may be kept eyther farrowing, or with farrow : for Swine, if they lye together in any number, being commonly ill mannered, doe lve ene buon another, whereby they hurt fuch as are with pigge. And therfore von muß haue leuerall Sties where they may farrow, and made high that the Sow cannot get out : for couered they muff not be

by

by any meanes, that the Swineheard may loke that the Sow o uerlay none of them, and to fo what they want, that he may make them cleane, and as oft as he cleanfethit, he muft ftraw land, oz fuch like, to drie by the moiffure : for though the be but a fwinith creature, vet loueth the to have her chamber cleane. When the hath farrowed, the requireth greater quantitie of meate. whereby the may give the more Bilke, fpectally Barley ficped in water, or ground, and tempered with water. And if pou have not goo fore of meate, your beft is to feil the Bigges : fo thall the Damme, being beliuered of her burden, be foner with farrow againe. Such as are farrowed in Winter, are commonly poze and wretched, both becaule of the colo, and that their Dammes Doe not like them for wanting of milke, and biting their Papps. If the Solve eate ber Wigges, it is a wonver : for Swine of all other beaffs, can work away with hunger. which when it propoketh, they cate not onely their ofone, but young children, which not long fince happened in Suffer, to the pittifull difcom. A Childe fort of the Parent. They luffer not the Dow to goe abroad in eaten by a Sowe. tenne Dayes after her farrolving, ercept it be to dinke : after, they fuffer her to goe about the houle, that the may the better giue milke. When the Winges ware great, they delire to goe abroad with their Dams, at which time they are fedde by them. felucs apart, to the end they may the foner forget their mother, luhich they will poein tenne daics. It behoueth the Swineheard to be carefull & diligent about his charge, that he haue in memozy enery one of them, both old and young, that he confider enery far. row, and thut by those that be great with pig, that they may fars rowin their file. De mult have special regard of every young pig, that every one of them be brought by buder his owne damme : for if they get out of the flie, they ftraightwales mingle one coma pany with another, whereby the yore Solu is forced to give milke many times to more Digs then her owne : and therefore the Swincheard muft thut by every Dam with her olone pigs. And if his memory ferue not to know them all, let him pitch eucry Sow and her Bigs with a feuerall marke : fog in a great num ber it thall behome him to to doe, for confounding his memorie. The olde Bul bands oblerued alwaics two times in the yere for sutting of them, the Spaing, and the fall of the leafe, whereby they auditied

auopded the danger both of the heate and cold. The Boare vigs they cut when they were fire Moneths old, and againe at foure vere old, to make them fatte, making the wounds, and taking out the frome of every lide : oz elle when you have taken out one ftone, you must thrust your knife againe into the wound, and cuts ting afunder the fkinne betwirt both the frones. Draw out mith your fingers the other, to thall you make but one fcarre: but this kind of cutting is somewhat more dangerous. The Solves are foaide by burning the Matrir with an Fron, and the fearre heas led by, whereby they will both have no more pigges, and be the fatter. Ariftorle, and following him Pline, would have the Solu after two dayes falling, hanged by by the fore legges, and fo cut, whereby the will be the foner fat : but I judge it better to cutte them when they be young, at two Moneths old, or younger, for foare they in least leopardie. After they be cut, you muft keve them from dinke, and give them but little meate : the wound must be announted with fresh Butter, and fowed by. As the wiftling and turning by of the taile is a figue of a found Hogge. to be there certaine and allured fignes of their ficknelle : for if you plucke off the billes from the backe, and finde that their rotes have bloud in them, it thewes the Swine is not well. 18es Of difeales fipes, if your Bogges be ficke, oz taken with a feuer, they hang in Swine, their heads at one fide, and fuddenly as they runne abroad, they flay, and being taken with a turning giddineffe, they fall downe: and therefore you mult marke well on which five they hang their heads, that you may cut the eare of the contrarie fide to let them bloud : and under the tayle belide, two inches from the rumpe, you thall ficike the vaine, which there is eafly to be fiene, by the bignelle of it : you muft firft beate it with a little flicke, and after it fwelleth with the beating, open it with your knife, and having bled fufficiently, binde it by with the rinde of Willow oz Elme : after this, kepe them by in the houle a bay og two, and aine them warme water, with a god quantitie of Barly flowee. If the Quinley or Vuula, (to which offeale this beaft is wondes rous fubied) chaunce to take them, Dydimus would have you let them bloud behinde aboue the thoulders, others buder their tongue : some againe cure them with fettering. If the kernels fwell in the threat, you must let them bloud buder the tongue,

and the cure.

The Quinsey.

and

and when they have bled, rubbe their mouthes within with fait. finely beaten, and inheate flowse : Democricus would have you aine to enery Solve, thic pound waight of the beaten rote of Daffadill. If they bomit, and loath their meate, it is god to give them before they goe abroad, the manings of Juorie, fryed with falt, and ground Beanes, Swine while they fiede abroad, by reas fon of their great benouring (for it is an unfatiable beaft) bo wonderoully labour with the abundance of the Spliene : for remedie whereof, you thall give them water as oft as they third, in Troughes made of Tamarice, the inpre of which woo is very holefome for them. Democritus teacheth to give buto Bogs that have the Splane, the water wherein the Coales of Beath hath beine quenched. This beaft hath fometime a fickneffe wherein he vines alway, and foglaketh his meate : and if you being him to the field, he fuddenly falleth dolone, and lyeth as it more in a bead flepe : which as fone as you perceine, you thall that by the whole Beard in fome house, and make them to falt one day, both from water and meate : the next day, the rote of the wilde Cue cumber famped, and frained with water, is given them to drink: which as some as they have taken, they fall a bomiting, and fo purge themselues. When they have thus expelled their choler. pon thall give them hard Beanes, frained with Brine. An era cellent medicine againft all Deftilence of Swine, both Hieronimus Tragus teach, which is; when you fie them infected, to give them the Rotes of Polipodi, og Dite Forne boyled in Winc, whereby they thall purge whatfocuer is cuill from them, and moft of all choice, where with Swine are moft troubled. The fame Hieronimus (as I vemember) teacheth for a Horle (though it be without my committion to meddle with them:) If he be fick, and fuddenly fall downe of a bifeafe that you know not, to put buder his tongue a piece of a Ferne rote, whereupon you thall fie him immediately boyde byward and downchard whatfoener is in his body, and perfently amend : this he faith (and tenely 3 Dare belieue him) that he proued with a Dorle of his owne. But to my Sinine : whereas thirff in Summer is hurtfull and dans gerous to all kinde of eattell, to this beaff it is most hurtfull : and therefore you muft not water them as you doe Shiepe & Goates, but tivile, og thaile a day : but if you can, you muft hope them bp

by the water fide, that they may goe thereto at pleasure : for the Swine is not content with dainking, but he muft often cole and plunge his filthy panch in the water, neither delighteth he in any thing to much, as to wallow in the ourt. And if you have no fuch place nære, vou mult diaw fome water from the Wiell, and give it them in Troughs abundantiv : for ercept they prinke their fill, they will fall ficke of the Lungs ; which difeafe is cured (as Columella weiteth) by thaufting the Hote of Detter. wort through their cares : Plinic affirmeth the Dobe to be a prefent remedie for the ficknelle of Swine. Some fav, that if a Sowelole one of her epes, the dyeth lone after; other wife the liueth aftene peres. There is a kinde of bileale amonalt Smine (though otherwise they be healthic and fatte) wherein their fich is all infected with little graines, as bigge as Dealon : the Siches call them Galazos, and we at this day Deasled Swine. which you thall come perceive by the fight of the tongue, and the hoar lenelle of their bovce : this difeale thep lav, is naturall bn. to them, from which you thall preferue them, if you nayle cere taine plates of Lead in the bottome of their Trough. Dou fall alle kepe them from this offeale, if you give them to brinke the Kote of Brioup : the generall and common remedy is Allome. Brimftone, and Bay-berries, of each alike : abbe thereunto a handfull of Sote, beate them all together, and put them in a Bagge, which Bagge you thall call into their water when they drinke, and renew it twile in the vere.

EVPHOR. J pray you Eumeus doe not diffemble, but tell bs truely holo you doe to have your Hogges fo fatte, I believe you are in the Barne fometime when you thould not be ?

E V MEVS. What means fo euer 3 ble in ordering my flocke, is not to my Daiffers loste, no more then is your diligence, where, by you bring your cattell to be fo faire. 3 told you before, that he was an unthriftie Husband, that had his Wacon from the Shambles, a not of his owne provision: and befides, my Daiffers Philitians give great commendations to Hagges fleth, in that it hath fuch a neareneffe and agreement with our vodies, neither is there (as 3 faid before) a bealt that makes more diffes. And there, fore it is greatly for profit, to have the Husband-mans kitchin well force with Bacon, where with he may infraine his houthold

Meazled Swine.

all

all the whole piere. Don thall eatily (though wods be wanting) finde Barnes, Barlbes, and Comeffelbs to fede them in. They will be fat (as Plinic fuppoleth) in thickfcoze dayes, fpecially if they be kept from meat three Dapes befoze you fiede them: thep are fatted with Barley, Dates, oz other Come, oz Buile, either giuen whole, or ground, but of all others, beft with Baft : and that fleft is better , and of more fubftance that is fed with Acomes, then that which is fatted with eyther Bach malt, oz Cheftnut. This beaft will in time be fo fat, as he will be able neis ther to goe, not fand. Dea Varro tells that there was fiene in Arcadia a Solve fo fat, that the was not onely buable to rife, but fuffeed a Moule to make a neft in her body, to lay her youg there. The fame Varro reporteth that there was fent to Volumius a Spco nator in Rome, a piece of Borke of two ribs that weighed thin & fwenty pound : the thickeneffe of which Solve from the fkinne to the ribbe, was one foote and theinches. Bour beffis to put to fatting your Swine of two or three veres old : for if they be vonger, their growing will hinder their feding. To keye your Bacon any long time, you must ble great diligence in the falting and diving of it, whereby you thall hausit both the wholefomer, and liveter, and belides to continue divers vieres to ferue the turne, if learlitie happen. Dour Bogge being in this fost fatted, you mult that by , and not fuffer him to drinke the day before you kill him whereby the fieth will be the orier. When you have thus after his thirst killed him, you shall eyther skald him with water, or with a flame made with frawe, or fickes, fundge him: for the manner of fuch as flap him. T like not. After that, hang. inghim by by the heirs, you thail plucke out his bowels, and put them to Dreffing : his fleft being colde and hard, pour thall lay byon a table, and cutting out the Bead, the Gammon , and the Flætches vouder them with Salt, thuking great fore thereof in every place, specially where the bones be: that bone, put it into your poudring tubbe, frowing falt enough buder it : fome Ivould have you fait it in the want of the Mone, 1Before you your der it, you must presse and bey out all the bloud . and the water. Some before they falt it, one plucke out the bones thinking it the bell luny for preferuing it, and to kiepe it louneft fluiet. Dthers againe doe not Graight wayes put it into the pausing tubbe,

144

but :

but doe leave it upon a Table for ten daies after, and then hang it bo in a vere avee, to bey in the larde. And when it hath bene Daved in the winde certaine dayes, by little and little, they let the Imoke come to it, and afterwards more abundantly. The Bacon mill be the fiveter, if beude the inoke, the winde may come to it : if you hang it in great imoke at the first, it will be ruffie. Dydimus faith, that the Bacon will long continue fingte, if after the dreffing, coling, and drving, it be hanged by in fladolup and moift places, rather toward the Porth, then toward the South. and that it will be fiveter, if it be couered with fnow and chaffe: the Tubbes that you volvder in, muft be fuch as have had Dyle in, rather then those that have bad Wineger. Although 3 have before fuoisen of the worthunche and antiquitie of Shepheards. and Beardimen, vet muft I here lav, that it is in baine to med. dle with the ordering and keeping of cattell ercept you have hand, fome and failfall men that may take the charge : for the knows ledge of heiping of cattell hath a discipline, wherein a man muff from his berp Childe-hod be brought bp : and furely it is mete. that the hugband, or 15 apliffe, haue bene brought bp, or trapued in all thefe Trades, and to come by degrees to his Maifters prise : As from a Swincheard to a Shepheard, from a Shepheard to a Deatheard, ac. And molt true it prouch in this that commeth to valle in all other gouernments, that fuch are belt able to take charge of gouernment, that paffing by degrees and offices, have from being buder gonernment, come to gonerne themfelues : for though (where the flocke is but fmail, and feding not farre off, is brought home enery day) children and young folks are able to forme the turne, yet ishere the flocks be great, and muft be keptnight and day in Forcefis, and wilde fields (as 3 laide bes fore of the flocks that wintred in Appulia, and fummered in the Dountaines of Kiere) here 3 fap the Shepheards muft both be men of luffie age, frength, and diligence, as allo failfull in that belongeth to their office : for neither olde men, nor children, are able to endure the hardnelle of clyming the hilles, not the tharp. neffe of the cold Dountaines, which they must alwayes doe that follow their flocke. fpecially they that kepe Bullocks and Goats, that delight to fiede bpon Bocks, and Claucs. Bou thall feon the Pountaines of Swytzerland, great and godly fellowes, farnilied

Of Shepheards.

fornified in warrelike manner to follow their Beards and Flockes, and to lodge in the wilde defarts, farre from the coma vany of men, and there allo to make both Butter and Chiefe : wherefore fuch as are miet to take charge in thefe places, mult be light, fwift, and well limmed, and not onely well able to fellow their flockes, but if note be to defend them from wilde and ranening beafts, to lift great burdens, to follow the chafe, and to be god archers : in fine, fuch a one as Homer both make his Eumeus to be. And therefore the olde Bulbandmen in hiring of a thepheard, did alwayes couenant among others, that hee thousd be found of body and limme, and frie from filching and theft. In Sclauony, the Deardelinen doe ble to haue their Wincs abroad with them, as companions of their tourney to dreffe their meate, and fuch things as they note : fuch things as are for the health of his beafts, the flepheard muft have alwayes in a reas Dineffe. Varro would have him both for this purpole, and for the better order of his reckonings with his Haffer, to write and reade. Of the number of the Beardinen , how many curry flocke ought to have, is to be measured by the Countrie, and kind of the Tattel. The fame Varro alloweth for enery four efcore Boates one thepheard, which Atticus alloweth to an hundred, to every fitie Bares two men : in our Countrep one flepheard fuf. ficeth for an hundred, or two hundred thepe: pea, many times for their hundled , and aboue , specially where they bee every day brought home. One Swinchcard will kepe twenty, or thirtie Bogges, oz moze, if the ground be thereafter, the like for 15ut lockes, and Bine. For Worles we feldome have Bearofmen, but enery man kepeth them at home, either in Stables of Pattures, not commonly ercieding the number of twenty. In what or Der von Mall febe pour Cattell, either in Summer oz in Wins fer, and when towards the South , and when to the Weft , I haue told you befoze.

The Dogge (though the Lawyer alloweth him not in the Dogges. number of Cattell) and though he yælds of himfelfe no profit, yet is he as the thepheard, for his truffineste, and watching of the flocke) to be estæmed and set by : for they have bæne sene sene fight in the defence and quartell of their Halter. Dea, divers of them have bæne knowne after their Pasters death, vpon great T

affection and lone, to family themfelues, whereupon the price of and Dogges arely to be bery areat. It is weitten, that Alcibiades gaue for one Dogge eightleore poundes. There is not a more necellary creature then the Docae about Bufbandey : for belide his fingular faithfulneffe and watching in the night time, he is allo a quarter matter in kieping of Cattell, and very nede full for the defence of them, specially Shiepe and Goates, which would be fome Deftroped by Cololfes, Fores, Craves, and other bermine, if Donges were not fet to be their kapers. Swine for ding in heards, if the wilde beaftes innade them, making as it were a larum with their grunting, and crying, allembie them. feines, in their bine befence. The greater Cattell defend them. felues fome with their baies, fome with their Bomes, onely the pore Sheve hath no Souldier but the Dogge. Df Dogges that ferue for profit, there are but their forts : for the fourth (which are but for pleasure) & make no account. One of the forts is fuch, as by fcent, or fiviftneffe. ferue for the chafe, and hilling of wide beafts : thefe, what manner of ones they fould be, and how they fould be ordered. Xenophon and Oppianus, in their Cynigerickes have taught, and 3 in my laft booke, where 3 fhall fveake of hunting, will declare.

But now I will onely fpeake of Dogges for the hufbanes, and knevers both of the house and the Cattell : and fuft of the Daffie that kepeth the house : for this purpose you must preuide you fuch a one, as hath a large and a mighty body, a great The Ban- and allycill vopce, that both with his barking bee may difcouer, dogge for and with his fight difinar the Thiefe, yea, being not fiene, with the houle. the horror of his boice but him to flight. Dis fature muft neither be long nor flort, but well fet, his head great, his eves tharpe, and fiery, either browne or gray, his lippes blackift, neither ture ning by , not hanging to much dolune , his mouth blacke and lube, his neather talue fat, and comming out of it of either fide afang, appearing more outward then his other feth, his bpper tieth even with his neather, not hanging to much over, harpe, and hidden with his lippes, his countenance like a Lion, his breft great, and thaghared, his thoulders broad, his logges bigge, his taile fort, his feet very great, his dispolition mult neither be to gentie noz to curft, that he neither fawne byon a thafe, noz fie bpon ... though be be not fwift: for he is but to fight at home, and to aime

warning of the enemie.

bpon his friends, very waking, no gadder abroad, nor lauith of his mouth, barking without caule, neither maketh it any matter

The Dogge that is for the folde, muft neither be fo gaunt, The nor fo fimift as the Graphound, nor fo fatte nor heaur as the Malty. Maffy of the houle, but very frong, and able to fight and follow the chafe, that hee may be able to beat away the Walfe or other beafts, and to follow the there and recover the prep, and therefore his body would rather be long then flort and thicker in all other points he must agree with the Bandog. Touching the kinde, the Dogge is thought better then the Bitch, becaufe of the trouble fie bringeth when the is fawte: howbeit, the fuavo Bits ches doe bite foreft, f are more waking. For their age, they muff neither be whelpes, not to olde: for the whelpe can neither defend himfelfe, not the flocke, whereas yet the old hath fome ble about a houle. If you have a whelpe (which age is better to be trained. either for the house or the fold) vou thall perceive by the for inhes ther he will be great or no. Dis head must be great, fmoth, and full of vaines, his cares great, and hanging, his toynts long, his foreleas florter then his hinder, but very fraight and great, his claives wide, his nailes hard, his hele neither fleftp noz to hard. the ridge of his backemot to much appearing, noz croked, his ribs round and well knit, his foulder pointes well diffant, his but, tockes fat, e broad, and in all other parts (as I lavd) of the Bans dogge before. For his colour it maketh no great matter though Varro would have him white, and to would Columella the Dog for the field, as he would have the Boule dog to be black : but the wed colour is indged naught in them both. The white they come mend, because he may be discerned from the Wolfe in the night. whereby they thall not frike the Dogge in ftead of the Malie. The blacke againe, for the house is beft commended, becaule of his terrour to the thefe in the day, and the hurt that he may do by night, by realon of his not being fiene: the dume, the branded, f the red, do not milite me, fo they be well marked beffor. Thus mult you ludging him as a Lyon, by the claim, eyther buy one, oz being by one for pour purpole. How much teaching or beinging by preuafleth, appeareth by Lycurgus his grample in Xenophon. I 2 e 6 ... 6 EI:

Comake them fierce & curff, vou muft plucke them by the eares. fet them together with your handes, and kepe them from being hurt, to thall you have them the bolder and the fiercer, and fuch as mill neuer giueit ouer. Dou mut ble him firft to the chaine ko tving him to a clogge, letting him bralwe it a while by his necke. and when you have a little space bled him in this fort, then may veu epther lead him of tie him : it is beft to have them tyen in the day time, to make them the curfice, and to let them lofe in the night time : to thall they in the night time watch, and in the day fleve. To arme them againft the Molfe, oz other milde beaffes, you may put broade collors about their Deckes full of Pailes, and fron fuddes, lining it with foft leather within, Don muft loke that your Dogges be of a good kinde, and (if you can) all of one hinde, to thall they flicke the better together : choole them that have the curftelt Dammes, and fuch as have their Bauves cuen. They begin to litter at a være eld, and continue nine pares, after tenne they be worth nothing.

The Dogge (as Columella faith) gettes Whelves luftilv.till he betenne pares olde : the whelpes of the olde Curres are flow and naught. Homer femeth to make the life of a Dogge aboue twenty pieres where he speaketh of the comming home of Vlilles, and the knowledge of his Dogge : And 3 my felfe haue fene Dogs that were faid to be fo much, but altogether bnozofitable. Their age may be knowen by their tieth, the young having (as Ariftotle faith) white teth and marpe: the olde blacke and blunt. In the Spring they begin to be fawte, and goe with Whelpe (as Ariftorle and Xenophon faith) therefore dayes, or at the most therefeore and their. Varro witteth, that they goe their moneths with young: the Dogs of Lacedemon ingender at right moneths olde, and all other Dogges also at halfe a være : they are with whelve at once limping : they litter about June : when they be littered, they are blinde, and the more milke they have, the longer it is before they fee, but never longer then one and twenty dayes, nor foner then leauen daves. Some holde opinion, that if there bee but one at a litter it will for the ninth day, if two the tenth day, and fo a day added for as many as be, and that those that be of the first litter, doe fonest fe: the best of the litter is that which laft freth or which the Bitch first carrieth to her Bennell.

As fone as they be whelved caft away fuch as you millike : of feauen.keve three or foure : of three, two : while they be young, at the first they must be fuffred to vlay with the Damme, that they may grow the better, afterward, let them be taught, and tied (as I tolde you) tying them in the day, and letting them lose in the night, and fuch as you know to be of a god kinde, and would have them prove well, fuffer them not to fucke a frange damme: for the milke and bloud of the mother is of great force to the goods neffe and growth of the Thelpe. And if to be the Bitch lache milke, fuckle them with the milke of a Goate, till they be foure moneths olde. Lay underneath them in their Bennels Strain and Chaffe, that they may lve warme: for they cannot well alway with cold. Don muft cut the tailes of the Whelves when they be fire weekes old, in this maner, there is a fire we that runnes from the ridge of the backe, to the tip of the taile, which being held fall with a pincer, & a little drawne out, von fhall cut afunder, where, by neither the taile thall grow to any foule length, not the Dog fhall at any time after (as they fay) be mad. They are thought to lift by the leage when they pille, at fire moneths olde, which is a fiane of the perfeancie of their frenath. The feeding of both kindes is all one, they may be fed with bones, porcoge, and fuch like: in any wife let them want no meat, for if they one, they will for hunger rauen abroad, and forfake both the house and the focke. Xenophon would have you give them milke all the være long, and such food as they shall fiede with all their life time, and no other thing : if you fied them to full, it will breed (as he faith) Difeales in their legs, and rot them within. Bread is their com. mon meat , but Varro would have it given epther with Bilke oz Tahap, by ble whereof, they will neuer forlake their Cattell. Pou may give them belide, bread, with the broth of fodden bones, and the bones themfelues broofed, which will make their teth the founder, and their monthes and lawes wider, and they will be the kaner, by realon of the fwatnelle of the Darrowe. Dou muft beware they cate no bead Sheepe, left by reafon of the taff, they fail to the line ones. While the Bitch hath Welpes, you muft fied her rather with Barley bread then wheaten bread : for they prosper better with it, and makes them give more milke. Dou muft fode them thaile a bay, in the mouning when you tye them

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bp, at none, and againe at night, when you let them lofe. Their names that you give them, mult be flost, that they may fone heare when they be called. The Czakes, and the Latines, gaue them names of two fillables, the Germaines lightly but Fit names one fillable, as 15all, Slut, Patch, Grim, fc. Aithough Columella would not have their names onder two fillables, theining for crample the names of Dogges among the Grakes, and the Latines, as onulas, edun, alun, landre, and Lupa, Tigris, Cerua. Xenophon reckoneth by thoulands, all for the most part of two fillables. The difeales and grieuances of Dogges, are the biting of Flies, Dickes, and Danginelle. Againft this you muft walh them when they be Whelves, with bitter Almonds, flamped and ftrained with water, walhing them both about their Cares, and betwirt their Clawes, that neither Flies ficke to them and blis fer them, noz Tickes, oz Lice moleft them : and if they be al, ready mangie, you muft annoint them with Tarre, and Boggel areale : the Tickes allo, if you touch them with this medicine, will prefently fall off, for you muft not plucke them off by force. Af your Dogge befull of Fleas, the remedy is Cummin beaten. with a like quantitie of neeting voluder, and mingled with was fer, rub himouer with it, or the olde dreas of Dyle rubbed over all his bodie. If he be feabby take Cythilus, and Celamum, beate them together, and mingling them with Tarre, annoint the foze: this medicine will alfo remedie a Chaiftian creature. They fap also, that if you thruft the skin through with an iron, it will heale the manginelle, or if you fineare them over with Sunnea pouder, oz caft them into a Sanners fatte.

Ariftotle waiteth, that Dogges are chiefely troubled with this bileales, Badnelle, Quinfey, and the Gout, and whatfocuer he byteth in his madnelle, becommethallo mad, and dieth thereof: the madnelle is molt ertreame in the Dogge dayes : whatfoever is bitten by them, falleth Araiahtinaves into a loathing, and feare of Mater. To preferue them from it, vou muft mingle with their meate for thirtie dayes together, or if they bealready infected, giue them neifing pouder to eate. Plinie weiteth, that there is in the tongue of Dogges a little worme, called of the Grækes Lyrra, which if it be taken out while they be whelpes, they will neither be madde, not gredy, not rauenous. If the Dogge.

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148

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Dogge be madde, he refuseth both meate and dainke, and dains Madde leth ill fanoured fomie matter, both from his nofe, and mouth, Dogges. hee loketh with a loathfome countenance, his body is leane, and moze clong together then it was wont to be, he beareth his taile betwirt his legges, and biteth without any barking whatfoeuer he metes, falling as well byon men, as beafts, making no diffes rence betwirt his friendes, and firangers. As the Dogge is a matchman and keyer of the house and the flocke, to the Cat is a household feruant to be cherifhed.

The Cauptians for their profitablenelle, did worthip for their Cattes. Goda golden Cat, for whereas Rats and Bile, as well in Cities, as in Granges, are greatly hurtfull, we kere bu Cattes for the anopding of the milchiefe, neither is there a lyedier remedy. The Catte is a bealt of nature enemie to the Boule, watching in the night, and floping in the day, fealing fuodenly and fivifily byon the Boule : the fath better by night then by day (as Alexder Aphrodifeus mitteth) her epes thine and glifter in the barke. They goe a Catterwalling about february, or other times in the piece (for they often ingender) and bring forth their young ones blinde, as the Bitch doth. Herodorus faith, that after the Catte hath kitned, thee commeth no moze at the Bucke, which when hee perceiveth, and cannot have his purpole, he killeth the young, whereof when the fieth her felfe bereft, foz very defire of young (whereof this kinde is molt deficous) thee commeth fraight to the Bucke. For my part, I would rather counfell pou to deftrop pour Rats and Bile with Travs. Banes oz Wice fels : for befides the fluttiffnelle and loathfomnelle of the Catte (you know what the layes in the Malt heape) the is molt danged rous and permitious among children, as I mp felfe have had god erperience.

Soli Deo honor & gloria.

The end of the third Booke.

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The fourth Booke. Entreating of Poultrie, Fowle, Fish, and Bees.

PVLLARIVS. CHENOBOSCVS. MELLISSEVS. PISCINARIVS.

PVLLA:



Shiping and bacding of Cattell, doth yold no small commodifie and gaines to the husbandman, so the nourithing and maintenance of Poultrie, Folule, Bas, and Filh (if the Countrie be for it) doth commonly arise to his great advantage, whereby both the revenue is greatly encreased, and the table daily with daintie.

and no chargeable diftes furnithed. Cages, and houses for 15irds, wherein were kept all manner and forts of Fowle, were first deuifed by Patter Lelius Scrabo at Brundilium, from which time it was first put in ble, to pen by fach creatures, as naturally were accustomed to file at their libertie in the ayre. At which time allo began to be brought in strange and outlandish Fowles, the keying and brieding whereof, yieldeth to the husbandman both pleasure and prefit. The have here brought in Pullarius, Chenobosov, Mellisteus, and Pileinarius, every one of them fenerally entreating of such things as belongeth to his charge.

MELLISSEVS. I fæ pou haue hære (Pullarius) great floze of Fowle, and Poultrie, and I belæue verily, the profit and commoditie of them will not quite halfe the charges they put you to.

PVLLARIVS. Des berily, they quite our. coli, whether

wee fell them, or kepe them for the kitchin. It is fayd, that Auidius Lurco made vierely of his Poultrie, and Fowle, five hund dred pound.

MELLISSEVS. But I doe a great deale better like the common Poultrie, that we hæpe about our houles.

PVLLARIVS. Maie haue also of the same here at home with bs.

M E L. Then let me bnderftand (I pray)in what order you kepe them, for herein you fieme to be most fkilfull.

P v L L A R. It is meet that energy one be failfull in that trade that he profetteth. If you will, I will not refuse to thew you that little cunning that I have : to you on the other fide bouchfafe to them me the ordering of your Bees.

MELLISSEVS. J will not ficke with you for that, to tell you the beft J can.

PVLLARIVS. With a god will I declare buto von my knowledge, beginning first with those kindes that are moft in ble: for among & all other household Poultrie, the chiefe place is due to the Cocke and the Henne, that are belide fo coms mon, as the poreft widdow in the Countrie is able to kave them. In this Bird there are their points of naturall affection chiefly to be wondered at. The first, the great carefulnelle that they have during the time of their litting, wherein for the defire of hatching their young, they forme to be careleffe of either meate or drinke. Secondly, that they beare fuch love to them, that they fishe not to has and their owne lives in the defence of them. And thiroly, that in the forme, great colde, or fickeneffe, they preferue and nourifh them buder their winges, not making for the while any account of their owne felues. There is hereof a fiviet coms parifon in the Golpell, wherein our Saulour Thiff compareth himfelfe to the Benne that gathereth her Thickens buder her luinges. And therefore, fince thele are common for enery man to have, and that they alwayes fiede about the house, I thinke it beft to begin with them, and to tell you which are beft to be liked, which to be brought up, and which to be fatted.

First, the best to be bought for brode, are the dunne, the The redde, the yellow, and the blacke, the white are not to be medled Hennes with, because they are commonly tender, and prosper not, neither for brood. are

The fourth Booke,

are they befide fruitfull, and are alwayes the faireft marke in a Hawke, oga Buffards eye. Let therefoge your Henne be of a god colour, having a large body, and breft, a great head, with a fraight, redde, and dubble combe, white cares and great, her tallons even. The beft kinde (as Columella faith) are fuch as have five claives, fo that they be free from fpurres: fog fuch as weare those Tockith weapons are not good fog brode, and difdaine the company of the Tocke, and lay but feldome, and when they fit, with their wurnly fpurres they breake their Egges. The little Pullets, or Hennes, though the olde age, both fog their when fuileffe, and other caules difalowed them, yet in many places they prove to be good, and lay many Egges. In England, at this day, they are vied as a daintie difh at mens tables.

In the choyle of your Cockes, you must provide fuch as will freade luffily, of colours, as 3 told you for the Bennes, and the like number of fallons, and like in many other points, but of fature they mult be higher , carrying their heades fraight by, their Combes muft be ruddy and high, not hanging, noz falling downe, their eyes blacke and tharpe, their Bils thoat and croked, their eares great and white, their wattels ozyent, having buder them as it were, a kinde of gravich beard, the Beake feathers of colours divers, either a pale, golden, oz a gliftering græne, which muft hang rufling from his pecke to his thoulders, their 152eafts muft be large, and well brawned, their Wings well feathered and large, their Tailes dubbled and flagging, their rumpes and thighs full of feathers, their leas ftrong, well armed with tharpe and deadly Spurres : Their Difvofition (for you thall not nede to have them great fighters) mouid be gentle, quicke, and lively, and specially good wakers, and crowers : for it is a Byzo that well aporcioneth both the night and the day, and (as Prudentius wits neffeth) erhozteth to reventance. Deither mult you on the other fide, haue him a Craddon, for he muft fometime fand in the Des fence of his wife, and his childzen, and have fromacke to kill oz brat away a Snake, or any fuch hurtfull bermine : but if he be quare rellous, vou Mall have no rule with him for fighting and beating his fellowes, not fuffering them to treade, though he have more then his hands full himfelfe. This milchiefe you map calily pres went with thackling him with a those fole: for although fuch lufty fighters

The choife of Cockes.

Aghters are bredde wp and cherisched for the game, yet are they not to serve the Husbandmans turne at home. A Cocke framed and proportioned after this sort, shall have five or five Hennes going with him.

MELLISSEVS. I pray you let mie buderftand what time of the perces belt for bringing forth of Chickens ?

PVLLARIVS. In fome places, fpecially the hotteft Countries, the Hennes beginne to lay in January, in colder Countries, eyther in February, or at the latter end of January : you mult allo further their laying, by giving them meates for the purpole, as Barley halfe fodde, which maketh both the Egges the fayrer, and caufeth them to lay the offner. Some thinke it good to mingle there with the leaves, or the feders of Cirylus, which both are thought to be greatly of force in making them fruitfull. If this be not to be had, you may fupply the want with Spery, or (as Cardanus faith) with Hempelede, which will caufe them to lay all the Wilnter.

When they lay, you muft for that their nefts be cleane, and kept fill with freffi cleane fraw: for other mile they will be full of fleas, and other vermine, which will not fuffer the Benne to: be quiet , whereby the Ogges doe not hatch euen together, 03 many times mare addle and rotten. The Gas that you let buder them, mult be new layo, howbeit, fo they be not aboue tenne Daves olde, it maketh no great matter : if you loke not to them they will Araight wayes at after their first laying, which you muft not fuffer, for the young Pullets are better for laying their fitting : the defice of fitting is refirained by thuffing a feather through their nole. The old Bennes muff rather be luffered to fit then the vounger, becaufe of their experience. Berein muft you have a speciall regard to know which be best to fit, for some be better to bying by Chickins then to fit. Others againe, will breake or eate up both their owne Egges, and their fellolves Cages : fuch pou muit put afide , and if their pailes and Billes be tharpe, rather imploy them in broding then in fits ting. Democritus telleth, that Chickens may be brought foorth without letting bnoer the Denne, if to be the doung of Bennes fifted very fine, bee put in little bagges , bafted about with foft feathers, byon which the Egges mult be law firaight byzight with

150

with the tharpe and byward : byon thele againe must the like quantitie of Bennes doung be laid, fo that they be of every fide clofely coucred. This done, you mult fuffer them to lie for the ting of the first dales, and after, every day turne them, taking and hed, that you knocke them not one againft the other in the furning. After twenty paves, vou thall finde the Gages broken: and therefore the twentieth day, plucking away the theis, and tay king out the Chickin, you may commit them to the Benne. It is witten, that Chickens have beene hatched by the continuall warmth of a womans bolome : belide, it hath bene liene that Egges being laid in an Duen, oz a warme place, coucred well with Arawe and chaffe, having a little fire belide, and one to turne them continually, have difcloled and broken at their accuftomed time. Ariftorle wziteth, that Cages put in warme beffels, oz coe uered with doning, will hatch of themfelucs. The number of the Egges that your Benne Gall fit byon, fome would haue to be odde, and not alwaies alike, but in Tanuarie, and February fif. fene, and no moze, in March ninetiene, and no leffe: which nums ber vou thall continue all the Summer . till September, oz Ddo. ber, after which time it is to no purpole to brede any longer : for the Chickins, by reason of the colde weather, and difeales, neuer prosper. Bea, some be of opinion, that after the tenth, or twelfth of June, von Mall never have faire brode, and that the beft feafon for letting, beginneth at the tenth of March. And herein pou mult alwayes be fure to have the Bone encrealing, from that the be tenne dayes old, till fiftene: for that is the beft time to fet in. And to mult you againe difuole the time, as the hatching may fall out in the encreale of the Mone : for the inft time of hatching, there are funder opinions: Ariftorle writeth, that they are hatched in ninetane dayes, Varro (for Chickins) one and twentie dairs, or twentie daves: for Deacockes , and Ocele, leaven and twentie dayes, and fometimes more: Duckes, in the like fpace to the Benne, specially if they fit night and day, allowing them onely the Boaning, and the Quening to feede : which times they muft of necelitie haue. If fo be vou will fet onder vour Benne Deas cockes Egges with her owne, you muft let her byon the Weacockes Egges ten daies before fbe haue ber ohme Egges, where by they thall be hatched all at once, neither must you fet aboue fine

fine Peacockes, oz Bole Ogges bnoer a Henne. If you would To have have all Cocke Chickins, you mult chose fuch Ogges as be lons Cocke acft and tharpelt, as againe (for Dennes) the roundeft, (as both Chickins, Plinic and Columella muite) though Arithotle fæme not of that or Henneopinion. To buderftand which be god Egges, which not, von Chickins. mult (as Varro teacheti))put them in water, and fuch as benought will fimim aloft, and the god goe fraight to the bottome. Dthers nge holo them bo againft a Canble, and if thep fe through them. they indge them light and nought. Don must in no fuile make them.oz (bogge them, leaft you breake the frings of life that are but newly begun : it hath bene fene, that by thaking of the Cas, the Thickins haue bene hatched lame. The may belide verceiue whether the Egges will proue well or no, if foure daies after the Benne haue fitten; pou hold them op in the Sunne, oz other light, and if you lo that they be clove, calt them alway, and put os ther in their places. Against thunder, that many times marreth the Gages, some doe let about them the Leaves, oz 132anches of Bayes, or Bentes, or Gralle, others (againe) the heads of Bar, Againft licke, and Pailes of yon. In the great heat of the Summer, you hurr of Againft : must now and then spinckle the Egges a little with water , and thunder. wet them, least by the extreame beat they ware drie and adle, fyes cially the Cas of Turkies and Bennes. Whenfocuer you meane . to make cleane their nefts, you must take by the Egges, and lay them tenderly in some little Basket, 3 to lay them speedily againe in the cleane neft increto the place where the Ben fits, you mult fet luater, & meat, that they may the better kepe their nefts, and that by their long absence the Egges ware not cold. And als though the Henne both alwaics turne her Eages, vet it behos ueth you when the is from the neft. to turne them foftly with pour hands, that by receiving a like warmth, they may the foner be readie. And if the have happened to burkany of them with her fite, you must prefently remoue them. At the ninetienth day, you mult loke diligently whether the Chickins to iobbe the facil with their billes, and hearken whether they piepe : for many times by reason of the haronelle of the theil they cannot come forth, and therefore you must helpe them out with your hands, and put them to the Benne, and this you must doe no longer then their daies ; for the Egges that after one and twentie dairs.

151

dates make a note, have nothing in them, and therefore ven muft caff them away, that the Benne lofe not her labour. Thon the twenticth day, if you firre the Ogges, you Gall heare the Chics hin, from that time begin the Feathers, the Chickin lying fo. as the head refleth byon the right fote, and the right wing lieth by on the head, the volke banifhing by little and little. Dou muff not take the Chickins away as they be hatcht, but fuffer them to remaine one whole day with the Benne in the peff without meate or drinke, till fuch time as they be all hatched. It is won. Derfull, & pet the experience fine, that before they be fuffered to cate, they take no harme, though they fall from a great beight. The next day, when all the flocke is come forth, Columella would have you to put them buder a Sine , and to perfume them with the fincke of Deneriall. or to hang them in a Balaet in the Imoke, fuhich uzeferueth them (as it is thought) from the pippe, which many times defropeth the pose Thickin : then muft you put them into a Cove with the Benne, and fede them at the firft with Barley-meale, fodden in water, and fozincisled with a little Wine. Afterwards, when they goe abroad, you mult feele enes rie one of them whether there remains any of the meate they rea ceined the day before : for if their croppes be not emptie, it bes tokeneth want of digettion, and therefore you muft have them faffing till all be digeffed. Dou muft not fuffer them to go farre from the Denne, but to keepe them about the Cope, and to fird them til they ware frong with bauled 15 arly, and 15 arly meale: you mult also take god hede, that they be not breathed won. by epther Toad, Snake, oz Cuet, foz the Apze of fuch is fo ves filent.as it by a by deffroveth them all : which milchiefe is auois Ded by burning of Barts home, Galbanum, og Womans haire, the linoke of all which preventeth this pettilence. Dou muft fe befine that they lie warme: for they neither can fuffer cold.nor to much heat : the feathers about their tailes mult be pulled away. leaft with the hardning of their dung, the pallage be flopped. which if it be, you muft open foftly with a little quill : you muft beeve them with the Benne for a moneths space, and after fuffer them to go at libertr. Both the old and young, are of all other difeafes moft troubled with the pippe, specially about Barueft times which isalittle white fain, couering the tippe of their tongue. which is to

Against chepippe.

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be plucked alway with the nailes, and the place to be poudzed with Alles. oz Barlike voudzed & fozinckled boon it. From this plaque pour foril preferue them, by fieding them in cleane beffels, and gi uing them alwaics the purelt, & cleannest luater, and keeping their houses alwaics deane, and finoked, or by finoking them, as they fit. with the finake chielly of Bayes, and Sauin. The wines of the countrie do commonly cure them, by thaufting a Feather through their nole, and firring it every day : their dict must be Bearbarace weapt in Butter og Garlike, mingled with Beale og Water. oz Clones of Garlikelvet in warme Ballet-orie, and put into their mouthes. Some (faith Columella) boe bie to wall their mouthes with ville, and kieve their bils to long clofe, as the Salt and bitter talt force them to cafe at their Dole the fpring of . the dileafe. Others againe do cut Garlick in gobbets and putting thenr in falloing Dyle, after it is cold , doe walk their mouthes. If they happen to cate Lupines, they will ftraight fivell buder the eves, which if you doe not gently open, and take out the Core, it prefentiv killeth them. And if fo be the pippe haue now elofed by their eyes, and that they forlake their meate, you muft launch their Chickes with a harpe built, and thault out the was ter that lieth under the eies, and put into the wound Salt finely beaten : this havveneth chicfely when in the Summer time they Drinks foule water, and alfo when they want meat, or takeceld. If their cies be fore, you may heale them with the inice of Burces lane, and Womans mility, annointing on the outfide, og. with Cummin, Dono, and Sa't Armoniacie. Dou fhall rid them of Lice, with parches Cummin, and Stauefacre, a like quantitie of each beaten together, and polyced on with Wine : allo the was ter Wherein Wilde Lupines haue bene lobden. If your Denne fail to cating of her Gages, taking out the white, por mult power in Plaifer, of some liquid thing, that may come to a hardnelle in the fiell. To kepe theni from cating of Graves, von fall. give them the Berrie of the wor called the wilde-Thine gathered. from the hedge before it be ripe, and fodden with Witheat fower, the cuill fafte whereof will caufe them to loath Graves. Plinie . affirmeth, that if you give them the flowers of the Time with ŧ their meat, they will not fouch the Grape."As in all other cattell. of the countrie. To in these kindes the beft are to be kept, and the inmiff ...

Choyle of worlt either to be fold, oz to be killed in the houle. And therefore every viere about the fall of the leafe, when they ceale to briede, Poultrie. you thall leften their number, and put away the old ones. Such as are aboue three peres, and fuch as are either bufruitfull, or not god bringers by of Chickins, but foccially those that eate vy either their owne Cages, oz their fellowes, oz fuch as after the Cockich manner either crow or tread : to which number pour thal alfo adde. fuch as were hatched after the tenth of June. which neuer proue to be favre: but the Cocke, as long as he is able to tread, you may kepe : for you thall feldome mete with a good Cocke. For fatting, the beft, those that hauethe lkinnes of their Fatting of necks thicke and fattifh. The place where you meane to fat them Poultrie. muft be berv marme, & of little light, becaufe, as both Varro, and our of me experience theweth, the light, and their often firring. kæpeth them from being fatte : thus must they be kept for five and twentie dayes, wherein they will be fatte. Let them hang every one in his Basket, og Cage by himfelfe, lubich muft haus in it two holes, one to thank out his necke at, the other to cafe out his dung, that he may discharge hinselfe, and let them be Arawed either with Arain, oz courfe hap : for the harder thep lie, the foner thep fatte. Bull alway belides, their feathers from their hears, their wings, and their taples, the one for anopting of Lice, the other for binding their bodics. The meate that you give them, muft be Barley meale, which mingled with water. mult be made in litle pellets, where with they will be fat (as some thinke) in fouretiene daves : but fie that you give it them but moderately at the first, till they well digest it, after give it them in quantitie, according as they digelt it: and in any wile give them no new, till you perceive, by fæling of their Croppes, that the olde be endelved. Dthers Doe fprinckle their Beate with Boney fodden in water, putting to their parts of water, one of Honey, and one of Wine, and wetting herein wheaten bread, they there = withall doe cramme them. Dthers fay, that if you put hercunto a little Bilke, they will be wonderfull fatte. The Cockreis are Making of gelded (as Ariftotle faith) in the hinder part, which when they fread, falleth out : this part, if you burne two or three times, Capons, they will be Cavons. And if they be right Capons, their Combs becommeth pale neither crowing noz treading any moze.

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Dur Atines of the Countrey, catting them betwirt the legges, take out their ftones, and folwing by the wound, annoint it with Butter; which done, they that them by in a Cope, not fuffering them to dyinke in a day og two. From the beginning of Harueft, and all Atinter long, the offall of the Cogne, and the Barnes doge doth fixee them fufficiently : where they plant Aines, sparing other moge colly sodes, they fixee them with the kernels of the Ggapes : and where there is neither the offail of Cogne, nog Ggapes, they mult be fedde with Dates, Spery, og such like. To caufe them to lay in Atinter, you mult give them (as I told you) Hempelede.

If you would have great Egges, Leoncus teacheth to beate OfEgges: into vowder Briche, oz Flaunders Tile, and mingling it with Chefil and Wine, to make it in Dow, and gine it to your Benne, in to put a Saucerfull of the powder of the Bzicke, to a Ballon of 15 zame, and to fiede them with it. The Egges of Digeons, Biele, Deacocks, and Turkies, be all white : the Cages of Was ter Folule be greenilb, and pale : the Binnie Bennes Caacs be like the Wehennes in all things, fauing that they be fuekted as the Turkie Dens. The Phealants, and the Baltrils Caues, are reodifh. The Eages of all Fowles (as Plinic faith) are of two colours, wherein the Mater Fowles Cages, having a great beale more volke then white, and that more blacke then others. The Egges of Filhes, are all of one colour, hauing no white in them. The Gages of Birds are by reafon of their heate, baits tle : and Servents Egges, by realon of their colonelle, tough : Filhes, by meanes of their moviture, foft in laving, the round part of the Cage commeth firft out, the Shell being loft, and prefently after hard : what forme foeuer they have, the long are molt commended, as witnelleth the Boet. The Egge in falhion framed long, and of them (as 3 faid before) is brought forth the Cocke Chicken, as of the round ones the Benne, though Ariftoele beagainft it. Some Dens doe lav berv great Egges, and those most times with two polkes, having the thell devided as it were with a circle, which both Ariftotle writeth, and our erverience approueth. Some doe lay double, and hatch double : fome are to fruitfull, as they lay great numbers at once, fome suery day, some twile a day : some are so fruitfull as they kill thens TI

themsclues with laying. In the middelt of all Egges, there lyeth as it were, a droppe of bloud, which is supposed to be the heart of the Bird, which is the first in all the body framed : the body it felfe is wrought of the white: the fuffenance is the polke: the head, while it is in the fhell, is bigger then all the body, the eyes that by more then the head. Wihile the Chickin increaseth, the white goeth to the midit, and the volke compatieth round a. bout. The twenticth day (as 3 faid before) if you firre the Eage, you fhall heare the Chickin, from which time the feathers come forth, lying fo, as the head refteth byon the right fote, and the right wing coucreth the head. The adle Gages are thought to come of the vaine luft and treading of the Dennes together : fome suppose them to be breede of the winde, and therefore call them Minde Egges, as Ariftoile befoze Plinie hath witten. Egges are preferued in Winter, if vou have them in Chaffe. Straive, or Leanes: and in Summer, if you couer them with 152anne, oz Wilheate. Some doe couer them befoze in fine beaten Salt, for the space of fire houres, and after walk them and lap them in Chaffe, Strawe, oz 152anne. Dthers againe couer them in Beanes, and fome in Beane flowce, and fome in heaves of Salt : but Salt, as it forfereth not the Gaaes to corraut, fo it greatly diminicheth the substance of them. Dour Ben Boules mult be made in that part of the Boule, as lyeth in the Winter toward the rifing of the Sunne, and jopning as niere as may bie to fome Bill, Duen, oz Chimney, oz to the Bitchin, fo as the fmoke may come amongft them : for fmoke is bery wholfome for this kinde of Fowle. And that was (I thinke) the caule that the old people made chople in their quitrents of finoke Bennes, as of the beft, as it appeareth by old Kentalles. Let the front of pour Benne houle fand alwayes towards the Cafe, and to that Toaff let the toze open. Let the inner romes be well furnifhed with Lofts, and Ladders, and finall Windolves opening Caffa ward, at which your Poultrie may flyout in the mouning, and come into the Rolf at night. Loke that you make them close at night, and let the Mindolves be well letteiled for feare of Tlere mine. Let your nells and lodgings, both for laping and broding, be ciderly caft : and against eucry nest and rofting place, place Reppes and boydes to come by by, making them as rough as

may

may be, that the Bennes may take good hold when they fiv bo to them, and not by their ouer-Imothenelle, bie forced to Butter, and hurt their Ogges. It thall not be amille, if you parget the boule both within and without with god Platter, whereby neis ther Mezell, nos other hurtfull Clermine may enter in. 12922 Ded Flores are not for Fowle to roft byon, which almost all kinde of Birds refuse, because of the burt that they receive by their dung, which if it cleane to their fiete, briedeth the Gout. And therefore to roffe bron, you muft make them Bearches. Ivhich Columella would, fould be made foure-fauare : but it is better to have them round, to that they be not to fmothe for them to take hold by. Let the Pearches reach from one fide of the wall to the other, fo as they fand from the Floze a fote in height, and two fote in diffance one from the other : and thus have you the fathion of your Benne Boufe. The Court where they goe, muft be cleane from bung and burtineffe, not has ning water in it, lauing in one place, and that muft be berie favze and cleane : foz if it be puddle, oz durtie, it bziedeth (as I layd befoze) the Bippe. To here their water cleane, von may have fapze Carthen oz Stone Teffels, oz Eroughs of woo. coursed on the toppe, in the which, there must be feuerall holes, lo bigge, as the head of the Fowle may ealilie enter : foz if pour thousd not keepe them thus couered, the Poultrie would in their Drinking defile and poplon it with their dung. Their meate muft be given them betimes in the mouning for fraying abroad, and a little before night, that they may come the timelier to their reft. Those that be in the Cope, muft (as Columella faith) bis feode thile in the day : the others mult be bled to an acquainted borce, that they may come at the calling. The number muft bie well marked : for they fone deceine their boper. Befide, pou muft have round about by the walles, god plentie of buft, wheree in they may bathe and propne themfelues : for as the Swine des lighteth to wallow in durt, fo both this kinde to bathe and tuns ble in the duff. And this is (I thinke) almost all that is to be Taid of Bullein.

 $M \in L \cup s \in v s$. Yea, but we mult heave fourthing allo touching the other forts of Fowle that are kept about the houle, which peraducuture Chenobolcuscan infiruct us of.

154

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CHENOBOSCVS. And if you will notes have me, 3 will not refule to thew you fomewhat also of my feathered cattell.

MELLISSEVS. J pappou Doclo.

CHENOBOSCVS. Amonalt the fow'e that we kiepe as Of Geefe. bout our houles in the Countrey, the fecond place of right is due to the Cole and the Ducke, which are of the number of those that they call Amphibia, because they line as well byon the land. as the water. And becaufe the kieping of Gele requires no great labour, it is a thing not bunnete for the Busbandman, for that (if he have place commodious for it) it is done without any charges, and vielocth god aduantage both with their brode and feathers : for belide the profit of their Eggs, you may thile in the viere, at the Suging, and the fall of the leafe pull them. Dozcouer, they are a bery god bilb for the Table : yea, being more watchfull then the Dogges, they give warning when they flove. And therefore they were with the Komanes had in great honour, because they with their gagaling bewraved the enemie, that other wife in the night time had taken the Towne. Plinie witeth of a Sole that would never be from the Bhilolopher Lacydes. Pour chople mut be of thole that be of the faireft kinde: Varro liketh beft the white ones, which colour was moft effer med in the olde time, as appeareth by the prefents that were gis nen: the fame Varro accounteth the gray for a wilde kinde. They are kept in Darthes, Fennes, Lakes, and Dogify Commons : for to Come ground, Deddolves, and Baffures, it is a bery burt. full Fowle : the biteth whatfoener young Spring the may reach. and what the once hath bitten, both neuer lightly profper againe: belites. We ftencheth the ground with her bupzofitable. oz rather most hurtfull dunging : wherefore (as 3 faid) it is best to keepe them in Fennes, Lakes, and Barthes. If vou haue fore of fuch around, vou fhall doe well to kave them : for you cannot well hieve them without and fore of mater and vaffure. The Bole delighteth in fuch meat as is naturally moill & cold, and hunneth naturally such things as are hurtfull for her, as the leafe of the Bap.and (as Alianus Weiteth) the Oleander : the beft and meeteft time for them to brode in, is from the Balends of Barch, to the tenth of June. They tread molt commonly in the water, while they fim in the Kiners, of Fill-ponds. Columella would have pou

vou kéve for every Bander, three Biele, thinking by reason of their buweldinelle, this number to luffice: within your Court, you muft make them for their better fafetie, feuerall, and fecret vennes, in funder parts thereof, where they may fit and brede. Some would have the Gole-rome framed in fuch order, as enery Gole may have a place to her felfe : which, if any man thinke to troublefome. he may make one fufficient wide rome to ferus them all. The places where they hall lay, must be brie, and well frained with fraw, or luch loft matter, and well defended from Uermine. The Gole mult not be luffered to lav out of her neft, but when you thall perceive they fæke it, you muft grope them, and if they be with Egge, which you thall ealilie fiele, then that them by in their nefts, which you thall not niede to doe as boue once.oz twife: foz where the bath once lavd. the will alwaies of her felfe fike to be They will lay (as fome hold ovinion) thrife in the være. if they be not fuffered to fit, as it is beft you doe not: for their Gages are better to be hatched buder a Benne, then of themfelues, and will better a great deale profper. The Egges of Giele, and Swannes, were bled (as Alianus witneffeth) as a molt daintie diff at Bankets, among the Kings and Princes of the Indies. Aristorle affirmeth, that the Bose alwaies bleth to fit, and never the Gander, contrarie to the order of many other Fowles, continuing alwaies till the haue batched. After the laft laving, you thall fuffer them to fit, and marke enery ones Gages with a fenerall marke, that they may be fet under their owns Sole, for it is thought they will never hatch a ftrangers Gages, without the have her owne bnder her. Df Gole Egges, as of Dehennes Cages, vou thall (as I faid befoze) neuer fet onder a Henne aboue fiue, noz bnder thzie : but bnder the Gole you thall fet at the leaft feauen, and at the most fifteene. Dou must kepe to lay under your Egges, the rotes of Pettles, which they lay preferueth them against the finging of Pettles, which other wile many times killeth the Gosling, if they fling them. The Egges will not be hatched if the meather be colde, befoze the thirtieth day, if it be warme, in leffer time : howbeit for the mote part, the Bosling is hatched the thirtieth dap after the litting. Some Doe ble to let by the nelts Barley fleped in water, or Mault, whereby the Bole thall not be forced to be any while ablent from

155

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her Cages. When your Boslings are come forth, you thall for the firft ten Daves febe them with the Gole in the neft. Afters loards, when the weather is faire, you may fuffer them to goe as broad, taking goo here that they be not finged with Rettles, nor that you let them goe an hungred into the pastures : but to aine them after they ave abroad the leaucs of Endine, or Lettule chopt, to allwage their hunger : for if you put them an hungred into the field, they firaine and breaks their owne necks, with puiling at the tough and flubborne wedes, by reafon of the fuds Den Carting backe againe of the webe. The Boz'ings of Diners biodes mult not goe together, not be that by together, for hure Fatting of third one another. When they be foure Moneths old, of fome. what before, is belt time for fatting them : the voungeff are for neft, and cafclieft fatted. If you give them ground Mault, and Wiegente flowce, von niede gine them nothing elfe, fo von let them have drinke enough, and keepe them from going abroad ... The Grakes did ble to put to the parts of ground Mault. foure. parts of Ban, templing it with water, letting them drinke thrife. a day, and at midnight. If you would have their Liners foft and tender, you thall mingle day Figs, well beaten with water, and making pellets thereof, cram them with it for the space of feauen. fane or twentic baies. The Rewes at this day, being the fkilful, left feders that be, doe blea frange order in the fatting of them. weapping the Gole in a Linnen Avzon, they hang her by in a. Darkeplace, Ropping her cares with Bealon. 02 fome other thing, that by neither hearing, not faing of any thing, the benet forced to frugale, not cry : after they give her vellets of ground Salt, 02 15ar, lepfticped in water, thile a day, fetting by them water. and grauell, by which manner offecting they make them to fatte, as the Liver many times commeth to be five yound in waight. Whill I was at the Councell of Wormes, there was a Liver of a Gole brought me by a Jew, that waighed foure pound. Plinie is alloa withelle of the greatness of the Liners of fat Bale, affir. ming, that they will grow after they be out of the bodyes, being fpainckled with milke. The common order of fatting with our Countrey people, is to Quite them by in a barke, and a narrow place, and to fet before them Barley, or Bech wheate, giving. them water, with a little land, oz grauell in their Troughes:

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and with this order they have them fat in fouretene dayes. After haruelt, they will be fat with the Brotten, or Stubble. They are plucked (as I faid before) timile in the years; in the Spring, and in the fall of the leafe. Some ble to clippe them, but then their feathers neuer grow fowell: but if you pull them, you thall have them to come berie fayre againe: and this is enough for a Gole.

Ducks and Teales are to be ordered in like manner almost as Ducks. the Gole, laning that they delight more in waters and Marilles: and therefore you mult force fome Waters, Lakes, or Woles, for them, whereunto they may eatily goe and fluimme, and dive at their pleasure. Columella would have you have a Court for the nonce for them, where no Cattell ble, and niere to the houle. round about the which you fiall build for them little handfome Romes, their fote lauare, with prettie dozes to enery one of them : which when they biede, you thall kepe thutte. Haro by. pon muft haue either fome Bond, oz Kiner, wherein (as 7 faid) they may figinme : for without the helpe of the water they can as cuill line, as without the land. It is god alfo to have nere buto them, fome god Paffure, or Deddolo, or to fet about the Ponds og Rivers, fuch Bearbs as they beft like; as Clauer. Fenearake. Endine. Lettule, and luch other as they molt delight in, and where with their young doe well fiede : belide, you muft gine them Dies, Barley, and other Come in water. There is nothing that they more love then Acornes, nor that better fatteth them. They delight wonderfully to bie amongit Redes and Sedges, wherein they may lye fafe from rauenous birds, but fo, as there grow no great Calked wedes, that may hinder their fiving : for they delight greatly to play themselves in the water, and to frine who can fivimme falteft, when the weather is fauze and warme : for as they love fuch places where they map belt way byon the creatures of the water, to are they much of. fended if they be reftrayned of their libertie in finimming. In Winter, when the waters be frozen, you mut ply them fomes times with meate. They delight to make their nells in fome fes cret Couert, but therein you mult preuent them, and make their nells in their owne lodging, or abroad, well coucred and closed with medes : to which nelt pon muft have fomeltttle fluce, oz gutter, by which you may every day poluze in water and meate. Their TI 4

Their fode muff be (as 7 faid) Dtes, Barley, Deale, Danicle, Billet, and Sperie, if vou haue any fore. They lay great fore of Coacs, wherewith, as with Gole Caacs, you may well fade pour familie. The Cages of Ducks and Owle, are kept in like fort as I told vou of Bennes Caacs : and belide, in Branne, Wheate, or Alhes. They brede in the lame fcalon that Biele, and other Fowle do, about Barch & Appill. And therefore where you keepe them, you muft frawe fickes and frawes for them to make their nefts withall. Their Ogges muft be fuffered to be hatched by themfelues.oz elfe remoued and fet bnder fome Hen: for the Ducklings that the Benne hatcheth, are thought to be gentler and tamer. Bou muft take god hede, that the Egges which they lay, be not eaten and spopled by Crowes and Pyes. while the Damme is liching abroad for meate. If fo be pou haue Rivers and Lakes for the purpole, it is belt to let the Damines bring them by : for when they be hatched, they will live bery well bpon the water with their Dams, without any charge at all : onely take god hede, that they be defended from Buzards, Bites, Crowes, and other like Hermine : but fo you ble them. as they will every night come home to the houle : for it is not god to let them be abroad in the night, for danger of loling them, and making them wilde. Det hath it benefene, that fuch as have hatched abroad, have afterwards come home, and brought with them a great number at their taples. When I was Ambal. fadour in England, it was told me by men of god credite, that there was in Scotland niere to the Sea certaine tres, that pares ly brought forth a fruit, that falling into the Sea, became a kinde of wilde Ducks, or rather Barnacles, which though it fæmed frange to me, vet found F Ariftoele a witneffe of the like, who Writeth, that the River Hypanus in Scythia, bringeth forth trees. inhofe leaves being fomeinhat larger then Paple leaves, whereof commeth a kinde of foure foted 13vides.

Peacocks.

But now to Peacocks, which Birds, being moze for pleafure then profit, are mater to be kept of Poble-men, then of pare Dusbands of the Countrey, though Varro writeth, that M. Aufidius Lurco, who first began the fatting of this Foule, mado parely of his Peacocks foure hundred pound, whole erample numbers following, the price of Peacocks grew to be great, fo much

much, as their Egges were fold for halfe a crowne a viece, the Weacocks themfelues, at foure Pobles a piece. The flefh is bery and delicate, mete foz poble-mens Tables, and will be long kept without corrupting, the Egges allo be bery pleafant. and goo to be eaten. Horrenlius they lay, was the firft that ever killed Deacocke for the Table in Rome, as a new dily at the Dicits fealt. To this 15 120, is alcribed both buderftanding. and glozy : for being prailed, he lets by ftraight his taile, and (as Plinic eloquently defcribes it)chiefely againft the Sunne, wherea ho the beautie may more be fone. Dis taile falling euery pore with the fall of the leafe, he mourneth, and creepeth in corners till his taile be fprong againe. They goe abroad, as Bennes and Thickins doe without a keeper, and get their owne linings, they be beft kept in little glands : for they flie neyther bie , nor farre off. Some thinke it to be a fpitefull and enuious Bird, as the Goole to be hamefaft, and that he denoureth his owne dung, becaufe he would haue no man receiue benefit by him. De liueth (as Ariltorle faith) fiue and twentie pieres : he biedeth at this væres old, the Cocke hauing his feathers divers coloured : he hatcheth in thirtie baies, as the Gole doth, and laveth the times in a være, if the Egges by taken alway , and fet buder a Benne. Dou muft loke that those that you fet buder a Benne, be new laid, and that the Benne from the first of the Mone, be fet boon nine Egges, fine of the Peacocks, and foure of her owne. The tenth day after the bath fit, take away the Bennes Egges, and out boder the like number of frelh Dennes Egges. They muft be torned, and therefore marked byon one fide. And fe that pou chofe the greatest Benne, for if the Benne be little, pou muft take the leffer number of Egges, as their Peabens Egges. and fire Benne Egges. When they be hatched, you muft as you doe with the Denne , let them alone : the firft day afters wards being them out, and put them with the damme into a Den. and fiede them at the first with Barley flowce, fpzinkled with mater, or pappe made of any other Come, and coled. A few Daies after mine them befide this chopped Lekes, and Cruds, 02 freth Cheele, the Whey well wiong out : for Whey is thought to be very hurtfull for the Chickins. After they be a moneth old, vou may let them goe in the field, and follow the Benne, tping

157

tying the Denne with a long line, that the goe not to far abroad. but that the Thickin may come home in time. After the firt moneth, you may give them Barley, and Bread : and after the feauenth moneth, you may put them to rouft in the boule with the other, not suffering them to fit bron the ground, bus buon Berches fez taking of cold. And although when they mare great, they chiefely delight to fit woon the toppes of houfes, and be as the Oole is, which are the beft watchmen, and allo the beft warning givers in the night time : pet is it beft for you to ble them to fit byon Derches, in houses made purpolely for them. Columella thinkes it not and to luffer lunder Bennes with their Chickins to feo together becaufe the Denne after the feth a big. ger then her owne, maketh the leffe account of her own Chickins, and many times by that occasion forlaketh them. The Cocke, by the great luft that he bath to tread, breakes a funder the Cages that be buder the Benne, and therefore it is beff to have the Bennes to fit as fecretly as may be: they allo ble to beat and chale their olune Chickins, till they for them creffed byon the head, taking them till then, to be none of their owne. One Corke fufficeth for five Bennes, who by to oft treading, both many times caule that the Egges neuer come to goo. In warme coun. tries they begin to tread in February, when letting by his faile round about him, taking himfelfe for no fmall perfon, is beginneth to woe and therefore at this time both the Cocke and the Denne are to be cherified with meates for the purpole to increase their luft, as 13 eanes toften a little by the fire and gluen them warme every five daies in the morning. The quarrellous and troubles fome Cockes, muft be feuered from their fellowes, foz hurting the weaker, and keying others from treading. The Bennes must be kept fo, as they may lay onely in their houses, and eucry day groped for her Egges, and hidely loked to, with loft fraw laid buder their Werches : for many times they lay as they lif boon the Derch. The difeafes of this Foule, and the remedics. are almost one with the difeates of the house-Cocke and the Benne fpoken of befoze, that is, the Dippe, and ill digition. Their greatelt danger is when their Coames come firft out, for then are they pained, as childzen are in brading of teth.

MELLIS

Dileales:

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MELLISSEVS. J would faine learne the right opdring of Turkie their outlandith Birds, called Ginny-Cocks, and Turky-Cocks Cockes.

CHENOBOSCVS. This kinde of Boultrie wee have not long had amonalt bs : for before the piere of our Lord" 1530 they were not fiene with beause I beliene knowne to the old writers. Some have supposed them to be a kinde of the Birds, called in the old time Melcagrides, because of their blews th Coames : but thefe kindes have no Coames, but onely wat, tels. Others againe reckon them for a kinde of Deacockes, becaufe they doe in treading time after the fame fort, fpread and fet by their tailes, bragging and banting themfelues : howbeit they nepther relemble theie in all points. But because this kinde of Fowle, both for their rareneffe, and alfo the greats neffe of their bodie, is at this day kept in great flockes; it thall not be much amille to speake of them : for in daintineffe and godnelle of meate, the Bennes may compare with cyther the Bale, or the Deahen, and the Cocke farre ercell them. Theco. lour of their feathers, is for the molt part white, blacke, or pied white and backe, fome blew and blacke. Their fate are like buto the Peacockes, their taile thoat , but fyzead , and borne by after the Peacoches quife, fpecially when they tread. The heads and the neckes of them, are naked without feathers, couered with a weinckled faime, in manner of a Cowle, or a Boode, which hanging oner their billes; the draw by, or let fall at their pleasures. The Locke hath the greater wattels under his chung, and on his back a fuft of haire. The colour of that wainche led fuinne about his bead (which hangeth over his bill, and as bout his neche, all fwelling as it were with little blathers) he changeth from time to time like the Camalion, to all colours of the Kainebolo, fometimes white, fometimes red, fometimes biew, fometimes vellow, which colours cuer altering, the Bird appeareth as it were a miracle of Pature. The dicting and kes. ving of them, is almost all one with the Deacoche, fauing that this Bird can worle away with cold and wet. It is a Bird wone derfully given to brading, enery Cocke muft as the Peacocke, have foure of five Bennes with him : they are more forward in breeding then the Peacocke, beginning epther the first pare, oz at the fautheft at two yeers old ; they beginne to lay in Darch;

March, og foner. In hot Countries they lap great numbers of Gages, if they be continually taken from them , and fet under Bennes, and if to be you take them not away, they begin to fit at the first : for they be of all others molt gluen to fitting, and fo much, that if you take away all their Egs, they will fit byon a ftone, og many times the bare feft. Dou muft therefoze ree ffraine them of this defire, either thauffing a feather through their nole (as I told you before) or by wetting their bellies with cold inater. Dou muft fet buder their Gages as (I tauaht von bee foze) in the Peacocke : for they have both one time of hatching. The kover muft marke the one fibe of the Eages, and alwaies turne them, furinchling them now and then gently with faire was fer, and take hid the Cocke come not at them, for he will breake them as well as the Deacocke : for the Cocke of this kinde, is a froward and milchieuous Bird. The Chickens being hatched under a Benne, may be kept with the Bennes Chickens, oz elle very well alone with the Benne, growing faffer a great deale then the Peachicke. Pou thall fied them in like fort as vou dos the Peacocke, og other Poultrie : fog they will eate any thing. and delight in Graffe, Wiedes, Grauell, and Sand. And bee caufe they cannot away with cold, not wet, you mult kneve them in Minter, in the warmelt and drieft places you have. The Wearches whereon they ble to fit, mult not bee high, but an epaktoz tenne foot from the ground, neither be they able to flie any great height, and therefore muft be holpen with Lathers, or Reppes. The greatest difeale that they are subied buto, is the Dippe, and the Squecke, which mut be holpen in like fort as the Dennes , and the Egges kept after the fame manner. In fome places they ble to make Capons of them when they be pound, which are ferued as a daintie dift to the Table, as was much bled in the houle of that godly and vertuous Semproma, the Ladie Hales of Kent, who was firft the wife of Sir Water Mauntill, of Northamptonshire, a woman in whom all bertues of Gentle- and bounties in her life time flozified.

Lady Hales, 2 mirrour Women.

MELLISSEVS. I well remember that Lady, and have heard her highly commended of fuch as in her life time belt knew her, foz a number of gracious and godly gifts that were in her, as her speciall loue and delight in God, and in his service, her helpes full

full hand and comfost to such as were pose, and diffictled, as well in relicuing them with meats and money, as with healing difeases, and curing a number of loathfome, and almost incurable bleers, and wounds, her milde and swate disposition, her great humilitie and carelescelle of the vaine world, and other such bertues, I would to Christ that all other Gentlewomen, that professe Christ outwardly were as well given to follow him in deed, as the was bufainedly.

CHENOBOSCVS. She was a very Phenix and Paragon of all the Gentlewomen that ever I knew, neyther am I fure I thall ever fee the like: but thee happily reflecth with him, whom in her life time the to earnefly ferued. If you be not weary, I will returne to my Fowle, and them you the beft order for keeping and maintaining of Pigeons.

PVLLARIVS. I thinke both MELLESSEVS, and PISCINARIVS would gladly heare you tell bs fomething of this, as J my felfe most willingly alfo would.

CHENOBOSCVS. Though you PVLLARIVS are better able to fpeake hercof then 3 am , pet because of my profettion, I will not refufe to take it bpon mer. Whatfoener he be, that gives himfelfe to the trade of Bulbanday, it behooneth specially to have a care for breeding of Bigcons, as well for Pigeons. the great commoditie they pielo to the Bitchin, as for the profit and verely revenewe that they yeld (if there be good floze of Come fields) in the Barket. Varro waiteth, that in his time a vave of Digcons were fold for 1000. H.S. And that Lucius Axius, a Unight of Rome, before the civill warres betwirt Cafar and Pompey, fold his pigeons at tenne yound the pavac: fo much was that time given to wantonnelle, and gluttony, yea, at this day in our time , hath beene feene ginen for a payze of Bigeons tenne pound flemilh. And therefore the Douchous fes are commonly built with great coft, and beautic, in the toppes of turrets and houles, from whence by narrely grated fundomes they fie abroad to their feeding. Pigeons (if the countrep be for them) are fed and maintained with little coll, feeding themfelues all the peece long with fuch meate as they finde abroad, ercept at fuch time as the ground is couered with Snow, when as you mult of necellitie belve them with a little meate.

159

meat. There is tino forts of them, one wilde kinde, that is hrought by in Dauc-houles, and of colour, evther bleivilh, lubite, fueckled, or dunne : howbeit, the white is not and to be kept, becaufe they be fonelt deftroped with bermine. In Italy there are of this fort, as bigge againe as ours, and are usin common in Flaunders. Another fort is more familiar and tame, and fomes thing more large of bodie, with rough firte, and commonly of cos lour white, and fometime fveckled and vellowith : this kinde is commonly kept in Cities and Townes, where the others cans not be kept, and is fed with meat at home. & becaule they are ever in danger of bermine, and rauening Birds, they are fill kept within dozes, and alwaies fed at home. This kinde the come mon people call tame Digcons, or moneth Digeons, becaufe they brade euery moneth . faue in the dead of Wainter, Both thele forts are monderous fruitfull, bræding commonly eight times a være (if the kinde be god) yea fometimes tenne, and eleuen times : foz in Eappt (as Ariftotle telleth) they brave all the Minter long. And though Dennes are moze fruitfull in laying of Cages, yet Pigeons are more profitable by often bringing forth young : and therefore you mult proutoe you fuch bieders, whole bodies be great and faire, not to old, not to young, of a god and perfect colour, and a fruitfull kinde. It be houeth him that will begin a Doue-houfe.not to begin with the young and little ones, but with the bieders, and to buy fo mas ny Cockes, as he both Bennes, and to keepe them if he care matched together of one Reft : foz if thep be fo matched . thep will brade a great deale better. They bring forth commonly a Cocke and a Benne together (as Ariftoile Walteth) and our ers perience flewethit. In Barch they begin to brode, if the wear ther be warme,befoze. There is no Bird fruitfuller then the Bigeon, and in fortie daies the conceineth, layeth, and fitteth, and brings bp, and that for the most part all the være, ercept (as I haue faid befoze) in Winter. She laveth tivo Coccs, and when thee hath laved the firft, which is a Cocke, the nert the laveth, which is a Benne, the third neuer lightly commeth to . god. Woth the kindes doe alwaies fit, the Cocke in the day, the Henne in the night, they hatch in thucntie baies, they lay after fue treadings. In Summer they fometimes being forth in two monethe

moneths thic paire : For upon the ninetienth day they hatch. and prefently conceine againe. And therefore you thall often finde among the pong Pigeons, Egges fome readie to hatch, and fome flving : if there be no Cockes, the Bennes will tread one another, but the Ogges neuer come to goo, but are winde Eages : Ariftotle and Theodorus calleth them water Egges, whereof there never commeth any thing, and becaufe the young ones will breede at five moneths old, me fuffer the firft flight to fie, to increase the bicede : as being hatched in March, will briede againe in July, of August. These that we meane to take for the Bitchin, or the Market, are beft to be drawne at the late ter time of the være, when they are work able to befond themfelues from the cold, and from Bassards, and Crowcs : the biff for brod among all Fowles, is the March brote. They that meane to fat Wigcous to fell them the Dearer, Doe feuer them when they be newly feathered , and fiede them with chalved white Bread twile a dap in Winter, and thrife in Summer: and fuch as be now hard vend, they leave in the peft, plucking the feathers of their wings, and breaking their legs, that they remoue not from their places, gining the dammes good plenty of meate, that they may better feete themselues, and their young. Some (as Gelius writeth) doe foftly the their leas, for if they fauld breake them, they thinks the paine would keepe them from fats ting : but this tying both little good, for while they ftruggle to get themsclues loofe, the labour will heepe them from being fat : but their leas being broken, the paine will not remaine as boue two dates, or three at the bttermoft, and will keepe them. that they thall never firay from their places. Some ble onely to vinion them, but to fal they many times out, and become a prop to Termine : and therefore it is good to bring them to the Bitchin, before thep be full rive. The bufeuitfull and naughtie coloured, and the other wile faultie, ought chiefelp to be fatted, and muft be crammed in fuch fort , as you cramme Capons. Doue houfes, or places for Digeons, to builde in, are made after divers manners : for the tame Pigcons, and fuch as are fed at home, they make in the highest parts of their Boules lying toward. the South , certaine hollow Roomes , and Celles for them, fuch as PVLLARIVS hath ocfcribed of his Pullein : and if.

160

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the place doe not fo ferue, driving in certaine Binnes into the Inall, they lay byon them frames of boyds, with partitions in them. oz earthen pots to bzed in, letting certaine Lidges runne from hole to hole, that they may the better come to their fefts. and walke by and downe in the Sunne. But the houles for the other wilder kinde, becaufe they containe great numbers, are built after a more hanfomer order, although buder the Gues of boules, and in fixples of Churches, you thall have thoulands biceding. Varro appoints the Douchoule to be built in this fort: a Toluzie adiovning to the houle, and well lofted and fieled abone, with one little doze in it, and foure windolves, an fwering the foure quarters of the Beauen, which windolves mut be well grated. fo as they may give light enough, and kepe out bermine. All the walles within mult be faire white limed. for with this cos lour is the Diacon monderfully delighted : belides it must be well pargetted and plaiffred without . foccially about the windolves. fo as neither Boule, TA efell, noz other Hermine may en. fer : the windowes must be fo placed, as they may let in the Sunne all the Minter, having a hole of fufficient inidenelle of uer against them. well netted and tunnelled, in fuch fort as the Bigeons may eafily flie out and in at, and yet not fuffer any hates full Bird to enter : for the Diacon taketh areat delight in fina now and then abzoad, where after the hath recreated her felfe, the commeth with joy to her nelt againe : as on the other fide the mourneth, if the bereffrained of her liberty. Round about the wals within you must have little round holes. from the top to the bots tome. wherein they may bied: Varro would have them thee hands fulsin length, and ledged from hole to hole for them to walke buon. Some thinke it belt to make pour holes of Lome, oz Lime and not of Bricke and Stone.as may do becaule of the warmth. There be some that builde their Douehouses boon pillers in the mioft of fome Pond, orgreat water, both becaufe they delight in water, and because they wil have them fafe from bermine. The meat that they moft delight in, is Tares, wilde Fetch, Deale, Wheat. Millet : where thefe be not, you may give them Spery, specially in Winter Kape lied, and Cockle : for by gathering and pecking by thefe little feeds, they get themfelues a heat in cold weather. When you give them meat, you mult throw it hard by the

entreating of Fowle.

the walles : for that part is commonly cleanet from dung. And though Varro bids you to findepe and make cleane your Douse houses continually, 3 that the bung is god and profitable for the field, vet fixing this kinde of fowle doth delight in places furinks led with their owne bung, you hall not niede to be carefull in clenfing of it. Lote well that they be not fraid, oz difquieted with Bunnes, or noile of people, or other like, specially when they fit: if you have occasion to goe into the house, fix that you doe it as bont none time, when they be abroad a fieding, and be fure to knocke wel befoze pou come in. Some fay, that it will caufe them. to love the houle, and allure others to come thither, if you furinkle them with Commin befoge they goe to fieding, og perfume the Houle with Sage, and Frankenfence. Some haue another erves rience for this purpole, and that is Pottheros beaten fmall and fearced, mingled with the hearbe Coaft, and god old Wiline, and giuen buto them. Dthers take Barly floluze , fodden with dzie Figs.and a part of Bony. Cardan teacheth this, as the belt for this purpole of Barly of Millet, of Commin, of Coaff, of Agnus Ca-Aus, of Honp, of old Lome, oz Dozter, of god Bulkadel, beilethem all together, and make a ftone of them to be fet in the middeft of a houle. Tragus teacheth to take the rates of the Thiltell, and to boile them with the pickle of Dearings. Conftantine out of Didymus, writeth of Divers other things for this purpole, which. who to will, may trie. Loke well that they be not deffroyed by the Hawke, oz Buzzard : the Bawke is a speciall enemie to this Bird, whole taking, Varro teacheth you in this manner : to lay a Bigeon byon the ground, and to Micke, bending closely over her, a couple of Lime roos. There is a kinde of Bawke, that natu. rally is terrible to other Bawkes, and preferneth the Bigeon: the common people call it Caffrel. Columella affirmeth, that if you take the young Caffrels, and preferue them every one in ear. then beffels well covered and plaffered all over, and hang them in the corners of the Doue-house, it makes the Digeon have luch a loue to the houle, as they will neuer foglake it. They have many other aduerlaries, Trowes, Dawes, and Dies, which all deftroy the Bigeons, specially when they breed. I found of late in mine owne Doue houle, on Divle fitting folemnip in the Reft boonher Egges in the middel of all the Pigeons, and hard by

147

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the house of an old hollow træ, I found pæces of young Piges ons, that the Divles had brought to fæde their poung with: and though the Divle fæme to be greater then the Pigeon, by reafon of the thicknesse of her feathers, yet will they cræpe in at as little a place as the Pigeon will : fo fmall and little is their bodies, though they be bombaled with Feathers. Againe, Wæfels, Stotes, a fuch like. Palladius would have you hedge the Doue-house about with tharpe prickly branches boild of leanes, as Gorfe, Bryers, and schers, do bid you hang great branches of Ane all about the house, specially at the entrance of the done, or to put wilde Ane boder their wings, or to sprinchle them with Aue: for this hearbe (as they fay) hath a special force agains fuch hurtfull bermine. Some fay, that if a Wolfes head be hanged in the Done-house, it will drive alway all hurtfull bermine.

MELLISSEVS. Me have heard enough of Pigeons, I pray you proceed with such other Birds as you keepe in the countrey. Keepe you any Felants here?

Felants.

CHENOBOSCVS. This kinde of Biros (though they be berie feldome kept among the countrey people) vet of mas ny curious and fine fellowes, for their rarenelle and dainti. neae, they are brought by and kept. And becaule they benefit the keper, and profit the Unfband, (if the foyle and countrey be for them) the old writers have placed the keping of them, with. in the compate of hulbandzie. Palladius teacheth, that you muft prouide fuch as be pound and luffie, that were of the laft pieres byinging forth : for the old ones be never fruitfull. Due Cocks is lufficient for two Bennes : they brade once a være, and lay to the number of twentie Gages, beginning in Apzill, and fomes where in March, but they are better to be brought by buder a Benne : lo as pou let bnder one Benne fiftane Egges, obler. uing the time of the Done, and the number of the daies, as I told you before of the Benne. The thirtieth day they come forth : for the first filtene daies pou must fied them with Barlys floure tenderly foo, and coled, bpon which you muft fpzinckle a little Mine. After von thall give them Wheate, Grathops pers and Antes Egges : let them not come niere the Mater for catching the Wippe, which if they chance to have, you shall rubbe

rubbe their billes with Garlicke, ftamped together with Tarre. They are fatted in thirtie dayes, with Mheat-floure, og Barlyfloure made in Pellets, the Pellets must bee sprinched a little with ople, and so put into their threates : you must take hæve you put it not under their tongues, for you doe, you kill them : neither must you give them any meate till you perceive the first be digefted.

PVLLARIVS. That fay you to Turtle Doues, thefe are alfo brought by and kept in fome Countries.

CHENEBOS. Columella affirmeth, that Turtles will ner Turtles. ner lay, not being forth in the honfe, not Partridges: and there, fore they bled to take them wilde when they were ful ripe, and to fade and fat them in little darke romes like Pigeons holes: the olde ones be not fo good, as neither the Pigeon is. In Ainteryou thall hardly have them fat, in Sommer they will fat of themfelnes, fo they may have plenty of Atheat and Corne : the water mult be very cleare and freth that you give them. They hold opinion, that the Turtle after he hath loft his mate, continuetheuer after folitary. But becaufe there is greater flore of Thrusthes and Blackbirds, we care the leffe for kkeping of Turtles. Thrushes yet as Plinie faith, there is in no place greater companie, then is and Blacktaken in the Alinter time in Germany.: that they were bled for birds. great dainties, appeares by Horace :

No daintier dish then is the thrush,

Nor fweeter then the Trype.

They are commonly decled whole, and not dealwne, for their inward partes may well be eaten, fo they be new : their Crops are commonly full of Juniper Berries : Patter Varro writeth, that Thuibes were were in his time at twelue pence a piece. There they ble to kiepe them, they also put as many as they take whoe among the others that they brought by before, by whole company and fellowship they patte alway the forcish of their pitlonment, and fall to their tweing : for you mult alwayes have olde fellows for the purpofe, by whole crample they may learne both to eate 3 drinke. They mult have warme bonfes, as your Pigeons have, crefied through both finall Pearsters : for after they have flowen about, or have fed, they defire to utf.

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162

The Berches mult be no higher then a mans height, fo as pou may eafily reach them Canding boon your feete. The meate muff be caft in fuch places of the boule.as lys not buder the Bear. thes, for filing of it. Columella and Palladius write, that burive ficais beaten and mingled with Wheate-flamze muft be given them, that they may eate thereof their filles. Ariftotle maketh many kinces of them, among which hee ale to putteth the Colmons, that feede byon Graves. Dur Thushes Doe feede for the molt part boon Juniper berries. which their Croppes being opened (as 3 faid) doe thew. They ble alfo in many places to kope Quailes , which is rather a Bird of the Carth , then of the Avze (as Plinie faith) but bee caule they feede byon Cleboz, and benemous feedes, and belide are bered with the falling fickneffe, many dee meruaile (as Ather zus muteth) why they be fo greatly effemed. They fay their young muft be fedde with Antes, and Emets Egges. as the Partridge. It is thought, that he flieth ouer into other Countries in the Minter time, as the Crane, and the Storke both, following for the quide the oldeft Quaile, called the mos ther Quaile.

PVLLARIVS. Pou have gotten one noble and goodly fowle, that is bled to be brought bp in the hulbandmans Ponds, Lakes, and Rivers, I meane the Swanne.

The Sysanne.

CHENOBOSCVS. Dou lay true : for this Bird come monly brought by in the Low-Countries, and kept in great numbers in Lincolne.fbire, a Countrey replenifbed with Cenflemen of good houles, and good houle-kepters. And Athenzus alledging the authoritie of Ariftoile, accounteth this Foible to be very fruitfull, and of great ftomacke, fo much, as it is thought they dare giue battaile to the Cagle. They are bred and kept (as you well fap) in Lakes, Rivers, and fith-ponds, without any charge at all, and doe great good in the Rivers by plucking bp the meds, and other annovances : for the ercellency of his downe, and daintinelle of his flelh, he is greatly effer med. There is one ercellent kinde of them, that taketh his name of the good watch that hee kepeth, and is alwaies che rifhed and kept in the Ditch of Cities, and fostrelles, for his great faithfulnelle in giuing warning. They be hept almoit in like

Quailes.

entreating of Fish.

163

like manner as Giele are, but that they ble to fit longer, fitting a whole moneth or there abouts : they bring forth feloome aboue eight , and fo many did my Swannes being me , and fometime fue. They make their fefts bard by the water, of Sedges, Wieds, and like Auffe : their young ones they carry Araight in. to the rivers. If the Lakes and Streames befrosen in Winter. vou must house them. This Bird is counted among such as live longeft, fore-thewing her owne death, as Plato and Martial Wite neffe, with a flocet and lamentable fong. Thus much concerning my profession I have told, I truft pou that be my friends, will take it in god part, and now PISCINARIVS Freligne my place to you, to whole turne it is come.

PISCINARIVS. It falleth out in god ogder, that from Of Fille talking of Winter Fowles we fould come to entreat of Filh, ponds. ponds, and filh : although I doe means to entreat largelier both of keeping and taking of Filhes in my Halienticks, but becaule the hulbands houle, both for watering of cattell, and other bles, cannot be without Ponds, and Lakes, and that every house is not fo feated, as it hath earable ground about it, it is lawful for the hulband to make his belt aduantage of his Ponds, and Waters. The Poble-men and Centle-men of Rome, were wont to build about their Boules faire fift ponds , and many times fas tilfied herein their pleasure, with ercieding colt and erpences, as M. Varro waiteth of the fumptuous and coffly fill ponds of Hortenfius, Hircius, and Lucullus, M. Cato, when he had the wardthip of Lucullus, made foure hundzed pound of the Filhin his Pond. The fame Varro maketh mention of two forts of Filh-ponds, the one of flowte water, the other of falt, the one amongit the common people, where the Springs fede them, and of great profit, the other niere to the Sea, where Neptune both vield them both floze of Water and filh : foz cramples, may ferue the Filh-ponds of Hortenfius, which rather pleafed the eye, then the Purfe. The best making of Ponds, is eye ther by the Sea, as Lucullus, who to let in the Sea into his Donds, made a pallage through the middelt of a great hill, where, by he thought himselfe as great a Lozo of Filh, as Neptune hime felfe : og elle to haue them from fome great freame og Kiver, that may bying in both Mater and filh, which by floud oz. Sluic.

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Slule, may let in alwaies fresh inater, not suffering the old fo corrupt, but alway refreshing it, and bringing more filh. The nert in godneffe, are those that are fed with pipes of feeret pale fages buver the ground, and may belet out againe by Slufes, which Slules muft fo be made, as when you lift, you may let the water into your Meadowes, to make them more fruitfull. as is to be fine in the Countries of the Switzers, and Heluctians, and in many other places. And therefore the waters (as I faid) muft be well inclosed with god Baves, Bankes , and Walles, that they may be able to abide the rage of the flods, and the water. The worlt and laft kinde, is luch as are madein Lakes, flanding Boles, or raine waters. I hele kinde of Bonds. though they be the world, by reason of their buckcane finking and corrupt water, pet where there is no better, are to be made account of : for though they be not the wholefomett for . keping of Filh, vet they reld fome commoditie, and are molt necellary about the houle, eyther for watering of Cattell, kies ping of Giele and Duckes, and walking, and other like bles: but if fo be you can make them epther by the Sea, or niere fome great River, fo as the water may be let in and out at your pleas fure : and whenfocuer you open the Slufes, to let out the way fer. Be fure that you have them well grated, that the Filly can by no meanes patte through, and let the pattage, if the place will fuffer it, be made on enery fide of the Dond : for the old water will beft boid, whenfoener the freame bends, if the currant lye as gainft it. Thefe Slufes or Pallages, pou muft make at the bots tome of the Bonds, if the place will fo ferne, that laying your leveli with the bottome of the Bond, you may differne the Sea, og kliner, to lve feauen fote higher : for this Columella thinkes. will be a sufficient level for your Pond, and water enough for your filh. Howbeit, there is no doubt , the Divyer the water comes from the Dea, the cooler it is, wherein the filles moft delight. And if to be the place where you means to make your Pondige leucli with the bim of the bea, og the River, you muft Digge it nine fote diepe, and lay your Currant within two fote of the toppe, and to order it as the water come in abundantly : for the old water lying buder the levell of the Sca, will not out againe, except a greater rage come in ; but for the Pond that is subica -

subject to the floud and ebbe , it is enough if it be but two forte Diepe. In the bankes and focs of thele Ponds, you mult have 15uthes and Trake-holes for the Fifth to hide them in from the heat of the Sunne : belides, old hollow tras, and rotes of tras are pleafant and delightfull harbours for fill. And if you can handlomely conney them, it is beft to being from the Sea, little Rockes, with the Wieds and all opon them, and to place them in the middelt of your Ponds, and to make a young Sea of them, that the Filhmap Ccarlely know of their impriforment. About Turivan in France, and in other places, you thall finde in Loughes and Ravne-water, even in the Wildernelle and Beathes, great abundance of Filly. In divers places of the low Countries, where they have their Bonds fed with the Kiner. which they may thut out at their pleasure, they to order them, as they be eyther environed, or beuided with dever ditches, wherein the filly doth live in the Summer time: and the reft of the ground betwirt the ditches, the water being boided and kept out by Slufes and Bankes, is folged with Summer Come, and after Barneft, the water let in againe, whereby the ground bes ing wonderoully enriched, doth vield great Crooves of Barly and Summer come, and (as the Poet laith) for the land, lo may be faid for the water, Not every ground for every feed, but regard muft be had, what for enery one is miet. The Romancs kepe in their Ponds Lampries, Doffers, Luces, Bullets, Lamporns, Bupltheodes, and all other filbbelides, that are bled to bekept in freth waters. Ponds for Dyfters , were firft deuifed by Sergius Orata, at the Baynes, about the time of L. Cralfus the D. ratoz, befoze the Battaile of Marlie, not fo much foz belicafie, as for the commoditie and gaine. Cockles, and Bulles , mere kept in Ponds by Fuluius Hirpenus. Dozcouer , diuers Filbes Delight in diners places. The beft Dikes and Luces were thought to be in the Miner of Tyber, betwirt the two bridges : the Turbotes, at Rauenna : the Lampapes in Cycill : lo Rivers, Lakes, Pooles, and Deas, in fome places have better Filh, then in others. But to returne to my Fill-ponds from whence I came, neyther may all forts of Filhes be kept in enery one, for fome forts are gravellers, delighting onely in Gravelly, Stony, and Sandy Waters, as Deanoines , Gudgins, Bulheads,

164

Kuffes,

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Huffes, Trouts, Perches, Lampzons, Creuiffes, Barbils, and Cheuins. Others delight againe in Buddie places, feking cuer to lie hid in the Bud, as the Tench, the Cele, the Breame, the Carpe, and luch others. Some againe belight in both as the Dike, the Luce, the Carpe, the Breame, the ISleake, and the Roach. The Gravelly Filbes, fuectally the Benomes, are ine gended of Shapes dung, laid in imall Balkets in the bottome of a Grauelly Liner. The Luce, or Dike, groweth (as like. mile doth the Carpe) to be great in a float time, as in thic og foure pieres, and therefore in fuch Ponds as have neyther the Sea, not Kiver comming to them, we ble every fourth, of third pare, to draw the old, and to Hore them with young. And in thele parts we chiefely floze them with Carpe, having fmall Ponds and Stewes for the purpole to kepe them in , foas pour may come by them at your plealure. Thus much I thought good to declare buto you touching my profettion, let bs now for what pou (MELLISSEVS) can fay for your 15 as, and your Dony.

Bees.

MELLISSEVS. Becaule I will not haue our difcourfe of hulbandry deprived and mapmed of fuch a profitable member. whole ble may in all places, be they never to defert, or barren, be had, I thinke it god as a conclusion to the whole, to thein pou for my part, the manner of keying and ordering of Biss: for the good hulband by cherifhing of them, picketh out many times a good piece of his lining, yea, the poze foule of the Countrey that hath no ground to occupie, may raile hereof and that without charges a great commoditie. Merula reports, that Varro had percly for the Rent of his Bes, a thouland gallons of Honv: and that in a house in Spaine, having not palling one Acce of ground to it, hath værelv bæne made of the Bes, foure fcore pounds worth of Ware and Hony. This little porecreas fuce the 15 w, doth not onely with her labour yold buto bs her Delicate and most healthy Bony, but allo with the god er ample of their painefull diligence and trauaile, encourageth man to labour and take paines according to his calling : in fuch fort. as it fiemeth the Almightie and moft excellent Baisfie, hath of all other specially created this little pooze creature, for the benefit and commoditie of man : by whom belides the commodifie

Industrie of Bees.

entreating of Bees.

modifie of the Honey and Mare that they make, we might take both crample to fpend our life in vertuous and commentable erercifes, and allo to honour and renerence the wonderfull bountie and godnelle of the molt gracious Lozd theived towards bs, in the creation of this finall and profitable Morme. They are continually buffed in labouring, they thew great cumning and worker manship in their travailes : they have alwairs among ft them the lively Image of a perfect Common-wealth, they pield obedience Bees their to their Prince, not liking the gouernment of fundry heads, but Commonloue to be ruled by one : cach one of them laboureth and trauay, weales. leth in his charge, in fo much, as the wifeft Gouernours and Counceliers in Common weales, haue taken the Bes for their Batterne in choling of Princes, diffributing of Offices, reward bing of bertues, and punifping malefactors. Varro did alwaics call them the Birds of the Bules : and Virgill with wonderfull The Birds colours, both cloquently fet forth the 15 cs, their Common weale, of the Walaces, Buildings, Citics, Lawes, Manners, Warres, and Mules. Tranailes, supposing them to be partakers of reason, and that they have fome inftinct from aboue, in that they fo nere refemble the mindes of men, yea, many times creell them, touching their obedience to their Brince.

Not Ægypt in his prime, nor Lydia large and wide, Ne yet the Parthian people great, nor all the Medes befide, Doe fo their King obay, who being fafe and well, Their mindes are all together one, he onely beares the bell. On him they caft their eyes, and garde him day and night, And oft they beare him on their backs, in his defence they fight : But if he chance to dye, then all is dafht and done : Their Combs afunder downe they teare, and all to ruine runne.

If the King be taken, the whole Swarme is had : if he begone, they disperts themselues abroad, for they cannot line without a King, hating as well the headlesse gouernment, as the subiection to many heads. If the King, or (as we tearme him) the Paisfer Bie die, the whole swarme droupeth, and mourneth, they straight waies cease from gathering of Goney, they sirre not abroad, but onely with a heavy and for would humming, they swarme and cluster

Vireill.

165

cluffer together about his bodie. The nature furely of this pose creature is greatly to be wondeed at.

Virgil

They onely of their broode have a common care, And neighbour-like their houfes nearely fland: And ruled are by Lawes that none do fpare, Alone they know their home and native land, And mindfull of the flormy Winter neere, In Summer get to live by all the yeere.

Their Princes pallace is fumptuoully built, in fome feuerall part of their Princes, being mounted about the reft, which if you happen to broole, you defire the brood. They line all as it were in a Campe, and duely kepe their watch and ward, working together, and effentimes fending abroad their Colonies, they are warned at their Captaines appointment, as it were with the found of a Trempet, by which they know both their times of warres, and truce : they ward all the day time at their gates in warlike manner, and have great filence in the night, till one of them in the morning humming out the diftharge of the watch: they get them abroad to their bufineffe, as the Poet hath sloquently erpreffed.

Virgil.

Together all they quietly doelie. Together all they toyle with equall might: And in the morning forth together flie. And home as fast they come againe at night. Where as they lay their weary lims to reft, And trim their wings, and fet their legs in frame : Till every one himfelfe hath throughly dreft, Then finging at their doores a while they game. Till one gives warning for to go to bed, Then downe they lay to reft their fleepie head,

For when the like time of the night comes in, they make leffe and leffe notife, till one of them goeth about with the like found that he gaue in the morning, fetting as it were the watch, and gluing them warning to go to reft : at which time they all lud-Denly

entreating of Bees.

166

denly hold their peace. In the mouning (as I faid) at the difcharge of the watch, they roame firaight to the gates, but flye not abroad, creept they the the weather will be faire : whereof by nature they have perfect underfranding.

Nor from the Hiues, if like it be to raine, They farre doe ftray, nor truft will they the skie If that the South-wind blow, but ftill remaine At home, or builed be with waters nie. Short flights they make, and when fuch ftormes they fee, They beare about the fmalleft ftones they finde : And as the Boates in floods that balaft bee, So with the fame they counterpoife the winde.

Bees forefhewing of ftormes.

Being loded, they fie with the winde : if any tempel fuddenly arile, they counterpoile themfelues with little flones, flying in the winde as neare the ground as may be : their labour, both at home, and abroad, is certainly appointed. Thep labour at the first within the compatte of the efcore paces about the Bine, and when the flowces there have bene fufficiently wought , they fend as broad their difcoucrers to finde out more fode. And when they fall all together to their bufincile, fome worke the flowers with their fiete, others carry water with their monthes, and droppes in their little ficles : the young luffie fellowes labour abroad. the elder at home. Those that goe abroad, to with their forciegs lade all their Thighes, which nature for the nence hath made rough : thus being loaved, Legs, Dead, Backe, and all, as much as they may beare, they returne home, where there waiteth come monly their or foure at the dore to buload them. Within all this while are fome laving in order, fome building, fome making cleane, and fome making readle their meate : for they fiede feuerally, for feare of beguiling one the other. They frame their houses archivile within the Bines, with two pallages, lo as they may enter one way, and goe out another. . Their coames that. they make are wrought full of holes, which holes (as Varro faiti) are their Colles or lodgings, made enery one fire quare, accors Ding to the number of their fiet: thefe Celles they doe fill with Donp, filling enery one in a day or two. Thele coames are fastned.

face to the opper part of the Hiue, and hang little opon the fides, not cleaning to the Hiue, being now concred, now round, according to the falhion of the Hiue : as both Plunie reporteth, and I thall hereafter their you, when I speake of the framing of the Combs. The Combs are kept op from falling, with small pils lers and proppes below, so built as they may goe round about to repaire them. The three first losts of their Celles beneath, are left emptie for feare of the Hiue : the oppermost are as full as may be, such as are loyterers and sole bagabonds amongst men, are noted, and punished with death.

Thepunishment of loite-

> Some range for food and plie the fields abroad. Some still at home doe labour busily: And round about with waxe the Hiues doe loade. Which from the gummes they painefully doe trie. The first foundations for the Combes they make, And clammy cleaving Waxe they falten by : While others of their broode the charge doth take. And folters vp the feede that fhall fupply. An other fort doth worke the Hony pure. And filles the Celles with licour that you fee: And others are appoynted to the doore, To looke abroad what weather is like to be. Or to vnload fuch as have laboured vvell. Or els to driue the drousie Drone away : Their labour finokes, and all of time doth finell. The Hony fweet that in their Combs they lay.

And a little after.

The great doe guide the Hiue, Make fast the Combes and Pallaces contriue.

CHENO. Of the worthine the, tranaile, workemanthip, and god order of this little creature, you have sufficiently spoken, it now remaines that you declare but o bs their sundry kindes, their képing, and their ordering.

MELLISSEVS, Ariflotle maketh many fosts and kindes

of

entreating of Bees.

of them. whereof he counterh the thost speckled, and well knit to The kinds the belt: and next to them, the long ones like Walpes: the third, of Bees. the kinde that you call the Thefe, with a bery large bodie : the The fourth, the Dzone, being bigger then all the reft, wanting both Theefe, his fting and courage to labour : and therefore they ble to make The Drone. at the entrie of their Dines Imall Grates, wherein the Bamay enter, but not the Dione. And the fame Ariltoric,in the chapter befoze faith, that there are two kindes of kings of Baiffer Bes. the one of a golden colour, which is counted the beft : the other blacke, and more partie coloured : they be twife as bigge as the other 15 cs, the taples of them as long as one and a halfe of the other, they are called of fome, the Dother of Bas, as the chiefe Breeders. breeders, because the young of the Drones are bredde without a King, but the other Bas neuer. Virgill following herein Ariftotle, doth molt commend the little, long, imothe, and faire Be, The beft and making mention of two losts of Bings, he defcribes the way, forts of Bees. fer, whereby he thall doe no harme.

Deffroy (faith he) and let the other liue, Whofe golden hew doth glifter in the eye: And decked with glittering fcales, faire fhew doth giue, Of farre more grace, and farre more Maieftie. With loathfome looke the other doth appeare, And dragling drawes his tayle with heavie cheare.

The fhape of their King.

167

And as there is two forts of kings, to is there of the other Bas.

Some Vglie feeme, and fome againe doe fhine, Bedasht with drop of golden colour fine,

Being milde and gentle : for the Bk, the greater he is, the worke he is, and if he be angrie, and fierce, and round, he is work of all. And because (as I faid before) the best are onely to be medled with fifth the god and the bad are a like chargeable, and require like tendance, and special hede to be had that you mingle not the bad with the god : for less will the encrease of your Honey be, if some of your Swarms be ill matched. You may flore your cells with Bies three manner of wates, eyther by buying them, taking the

The fourth Booke. the wilde Swarmes, oz making them by Arte. Such as you buy.

What to be confidered in buying of Bees.

let them be of the kinde and thave that 3 told you of, and be fure before pour buy them, that the Swarmes be whole and great. which you may indge by loking into the Bine, or if you cannot be fuffered to to doe, you may queffeit by other tokens : as if fo be you fix areat numbers cluftring at the dose of the Dive and if you heare a great hussing and humming within: og (if they be all at reft) putting your lippes to the mouth of the Dive, and blow, ing therein, you thall calify perceive by their antworing found. whether their number be great or no. In buping them, belie, you mail toke whether they be found or ficke: the fiance of their being in health (as thall be furmer tuben 3 fpeake of their difeafes) is, if their Swarmes be great, themfelues faire, and well. coloured, and worke luftily. Againe, a token of their not being well : as if they be happie, loke loathfomely, and buffilie, ercent at fuch time as they labour : for then they ware leane and ruffe. with ertreame traueil. Don muft make pour coniedure like wife. by their age, fuch as are not aboue a være olde, loke faire and Imothe, and thine, as if they were Duled : the old ones are both in haht and feeling, ruffe and rugged, and by reafon of age, wrinch, led : which nevertheleffe, for cunning in making their Combs, erverience, induffrie, and fhilfulneffe in the weather, Deefarre palle the others. In any wife fix that you buy them rather from Tranfporpour nert neighbour, then from a ftrange Countrep, ozfarre off. for they many times perify by change of ayre, or faking in the carriage. And if you be dainen to carry them farre, take bede you newther tonge, not tumble them : the beft way to carry them is byon a mans flouiders, and that in the night time, luffering them to relt in the bay, and polying in to them fuch fings as they belight in, and kieping them close. It is better removing them in the Spring, then in Winter : for they doe not fo well as gree with Winter. If you carrie them from a god place, to a barvaine, they will fraight-wayes bid you farewell, and forfake their Diues. When you have brought them to the place where you meane they hall fand, if it be day time, you muft neither o. ven them, not place them till it be night, to the end they may after thequiet reft of the night, goe cherefully to their worke the nert morning. We fure to marke them well believes for two or fb208_

The taking of Becs.

tingof

Becs.

the dayes after, whether they goe all out or no : for if they boe, it is a threfvoe figne they will alway. Sometime, if the place be god, you thall allay to floze your felfe with wilde Bes : for ale though that 15 ies (as Plinic faith) cannot be rightly tearmed eis ther wilde, og tame, pet Varro calleth them wilde that breedent wilde places, and tame. Auch as we kepe at home : and affirs meth the manner of kieving them to be divers. There is great Roze of the wilde fort in Sarmatia.

PVLLARIVS. They fay, that in Liuonia and Sarmatia, (from whence is brought hither great froze of Ware, and Home) the Countrey people doe gather it in areat abundance in hollow fries, and defart places.

MELLISSEVS. The greateff token of Bas and Honep nere, is where they be in great numbers about the waters: foz if pou fie the number but fmall, it is a figne it is no god place for Bás, and if fo be you fie they come in areat numbers, you may fone learne where the flocks be : in this fort, as Columella and others haue taught: Don thall carry with you in a Saucer. of fuch To finde like thing, fome redde colour, or painting, and fanding neere to out the fprings, or waters there abouts, as falt as they come, touch them Bees. boon the backes while they are a drinking, with fome little fraw dipped in the colour : and tarry you there till fuch time as you fie them returne. If the Bies that you marked doe quicklie res turne, it is a token their houles be not farre off, if it be long ere they come, it theines they dwell farther off: wherefore you map judge by the time. If they be neve, you thall cally finde them, if they be farre off, you thall come to finde them in this fort : Take a vice of a Kiede, oza Ber, with his knots and joynts, and making a small hole in the fide, powze into it epther Boney, oz fome livite thing, and lay it by the water : and when you fo the Bes have found it, and entred the hole for the favour of the Ho. ney, foppe you the hole with your thumbe, and let but one goe out at once, whole course you Mallfollow, as farre as you can fee him, and this thall being you part of the way : when you can no longer fe him, let out another, and follow him, and fo another, one after another, fill you come to the place. Dthers bie to fet fome little beffels with honv by the water: which, when fome one 15 is or other bath hapned to take, the giaeth fraight knowledge

to

to her fellowes, whereby by their flying in number, they come to finde out their dwellings. If pou finde the Swarme to be in feme fuch hole, as you cannot come at them, you shall drive them out with moke, and when they be out, bring them downe with the ringing of a lattin Balon, fo as they may fettle boon fome tree. from whence you thall thate them into your Diue. If the finarme be in some hole aboue in the branches, you may faive off the branch handlomely, and couering it with a white cloth, place it amonalt your Hiues. If they be in the body of the tree, then may von foftiv fawe off the tre aboue the 15 es, and afterward, close Underneath them: and being coucred as before, carry them home. Rovving well the chinks and riftes, if there be any. We that fire keth the Bas, muft begin in the morning, that he may have the whole day before him to marke their labouring. Thus farre of the kindes of 15 as, and getting of them : now will I thein you of the placing of them, ordering, and kaping of them. The place for your Bas and your Hiues muft be fo cholen, as they may fand quietly and fecret, fanding specially in fuch place, as they may have the Sunne in Winter, and in the Spring time alinav at the rifing, and fuch as is nevther to hot, not to cold : for the erceffe of eyther both hurt them, but rather temperate, that both in Summer and Minter, they may have moderate warmth, and wholefome avze, being farre remoued from the company of eve ther man, og beaft.

Where neither winde may come, whole blafts forbids Them bringing home their loade, nor fheepe, nor wanton Kids, To spring among the flowres, nor warding belt, Shake off the dew, and trampling spoyle the reft.

mine an-Bces.

Standing for Bees.

What Ver. For they molt of all delight in quietnelle : beware belide, that there be no hurtfull creatures nere them, as the Tode, that with noyeth the his breath doth both poplon the 13 a, and allo draweth them to him, the Woopecker, the Swallow, the Sparrow, the Storke, Spidars, Bornets, Butter-fives, Servents, and Bothes.

> Drive from thy Hiues the hurtfull Lyfart greene, Keepe Throftles, Hennes, and other Birds vntrew :

And Progne, on whole breft as yet is feene The bloodie marke of hands that Itys flew. All these deftroy thy Bees, and to their nefts doe beare

Such as they take in flight, to make their young ones cheare. Df fuch things as hurt your Bas, I will hereafter fpeake more, The valley where I thall them you of their vifeales and harmes in the meane the Bee, time I will goe forward with the placing of them. The place then the where they found fand, would rather be in the valley, then bes hill. rie high : but to as the rebound of no Ecco, doe hurt them, which found is verienovfome buto them : fo fall they fie with more cale and spiede to the higher places, and come laten downe as gaine with leffe trauaile. If the feate of the houls will to fuffer, it is and to have your Bes fand niere your houle, and to be enclosed with a hebae.oz a vale : but on such five as they be not any noved with the fent of finke, prinie, or dunghill. The beft fans ding, is within the fight of the mafter, by whole prefence they are lafeft kept. for their better lafetie (if vou feare them)bou may let them a pard or more from the ground, encloting them with little grates left open against enery Dine, oz fo lettifed with ftone, as the 15 & may eafily come out and in , and escape both Birds and Water : of if you lift, you may make a little house by for the Reeper, wherein you may lav your Blues for your Swarmes , and other necellaries miete for your Bies , letting nère to the Pines fome thavolving Très for them to fivarine byon, according to the Poets aduile.

And plant the Date tree neere, or pleafant Oliue tree, (be: That with their floury branches fweet, thy hiues may fladowed That when the Captaines young, lead out their luftie fwarmes, The pleafant flade may them allure, to flum the greater harmes. Not needing for their eafe, in places farre to roame, When as they may more fafely fit, and better fpeed at home. If it may be, let them have fome faire Spring neare them, or elfe Faire wafome water conneyed in pipe: for without water they can neys ternecefther make Young, Ware, nor breed op their young : and there Brees.

foze saith the Poet.

Haue fountaines lweet at hand, or molfie waters greene, Or pleafant brooke that paffing through, the meads is lweetly and araight-waies after. (leene.

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If either flanding poole be neither to them nic, Or running flreame with hafty courfe, their dwellings paffeth by Caft boughes of Willow croffe, and mightic flones withall, That may preferue the fainting Bee, that in the floud doth fall.

Hearbs that Bees delight in. Round about the Bé-pard, and nere to the hiues, fet hearbes, plants, and flowces, both for their health, and profit : fuecially fuch as are of the finetelt and belicatelt fauour : as Cithyfus, Winte, Callia, Kolemary, Sauery, Smallage, Hiolets, Sage, La. uender, Apperhe, wilde Barierum, wilde Epme, Balme, fincte Barierum, Saffron, Beanes, Buffardlich, Doppep. Bellilot.and Roles. And if there lie Ground nære it for the purpole, fow it with Rave lede, and Bechwheat : for they wonderfully delight in the flowzes hereof. Plinic writeth; that Bies delight greatly to have Brome flowres neere them : oftres they moft belight inithefe. The Bine, the Millow, the Firre tra, the Almond, the Beach, the Beare trie & the Apple, and fuch as the flow esthere. of be not bitter. Di the wilde forts, the Terebinth, the Lentife. the Lind tre, the Cedar, and the Balkholme. The belt hony (as Palladius faith) is made of Time : the nert of wilde Time : the third. of Rolemary. Dou muft remoue from your Bies, the Dew tre, Bor, and the Comel: Plinic would allo haue the Dlive away. Banifb alfo all the kinos of Sporge: for with that, as alfo with the flowces of the Cornell, they fall into a Fiire and Die. Befides pour must fuffer no Mozmelvod, noz wilde Cucumber to grow nære them, for they both deftroy the Bas, and fpople the honie. And be caule the flomze, og fruit of Eimes both specially burt them, therefore in fuch parts of Italy where plenty of Elmes grow, the Bes do not long continue. Touching your hiues, they are made of divers fathions, according to the manner of the course trp. So me are made round. fome fquare. fomethie fot in height. and one in breadth, made bery narrow toward the top, leaft the Bas Couldoucrlabor themfelues in filling of them. Some make their hiues of Lanterne horne, or Blaffe, to the end (as Plinic faith) that they may biew the manner of their working, Varro maketh mention of earthen hives well plaiffered within and without with god Drc-dung. loas the roughnes and ruggednes cannot difpleafe them : but foz all that, the earthen hiues be the work that may be, because in Soummer they be to hot, and in Minter.

Hearbs noylome to Bees.

Of the Hine.

muinter to cold. The belt hiues, are those that are made of Coake micher. og rindes of tres, becaufe they kepe out both cold and heat: the next are luch as are made of Straw and Bents matted tores ther, five fot in bredth and fo much or more, according to the num ber of pour Bes in height. In fome places thep make them of one viece of wood, cut and hollowed for the nonce, or of formed boords, five or fire fot in height , and thele neither are to hot in Sommer, noz to colo in Winter. Df thele wooden hiues, the beff are those that are made of the Figge tro, Bine, Albe , and Walnut, of fuch length (as I told you) and a cubit in breadth. Befides, they would be couered with either Linte. oz Dredung: for fo (faith Florentine) you that kepe them long without votting. Dou nuft allo bose them through flopewife, whereby the winde gently entring, may drie by all cobwebs, or fuch like novances. Don muft alivaies have god fore of hives lying by you, that may beremoued, and ealily carried where you lift : for the fired, or fanding hives be difcommodious, as which you can neither fel. 1192 remque: though Cellus fæme to commend the fanding biues, becaufe they are neither fubien to fealing, noz burning, being made of 152ick, oz Loame. Dour hines (as Columella out of Cellus doth Howyos teach) must fand byon some table of fone, a pard from the must place and ground, fo much in breadth, fo finothed and plaiffered, as neis your hues. ther Toad. Cuette, og Snake map creepe bp : and in fuch ozder they mult be placed as there may be betwirt enery one a little wall, og partition, being open both befoze e behinde. If pou haus no fuch vartitions, then place them to, as they be a prettie way biffantone from the other, that in breffing and loking to any one of them, you thake not, not burt the other : for a little fumbling both foone marre all their houses , and many times spople the Bees. At is enough to have their rankes of them, one about the other : for the keyer thall have engigh to boe, to ouerlake the oppermoft. The part where the Bee doth enter, muft fand a little lower then the hinder part, fo as the raine can not runne in, and the water (if there be any) may eafily boide. And becaufe colo both moze annoy the Be, then beate , you muft arme your hines well behinde, againft the hurt and bittere nelle of the Porth winde, and let the Sunne come bountifully to them in the Front. And therefoze it is belt for you to make

170

12

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the holes where they come in and out, as finall as you may, that they fuffice onely for the bigneffe of the 15 k, partly for anovoing of cold, and partly to kepe the Cucts, Betels, Butterflics, 15ats, Mothes, and fuch other hurtfull vermine, that would other wife Deffrey the Combes : wherefore it is and you have two or three fuch finall holes together in cuery hive, for the commeditie of the Bee, and reffraine the enemie.

PVLLARIVS. Wiell, 7 vap vou let bs know when the Wee beginneth to labour, and when he cealeth.

Thebe-

ginning

uaile.

MELLISSEVS. Becaule 3 haue orclared buto pou befoze their toile their diligence, and order of their trauaile, 3 will now like wile thew you what time they begin to labour. In the Wilnter time, from the fetting of the feauen farres, till the beginning of When the the furing, they here their houles, and come not abroad, by realon Beerefteth, of the cold: in the fpzing, they come ftraight abzoad, and from that time forward (if the weather let them not) they never reft day. and otder Firft of all, they frame their Combs. and Warsthat is. they make of his tra- their houles and chambers, whereof they make to many, as they thinke them felues able to fill : then fall they to breding, and laft of all, to making of hony. Their Ware, they make of the flowes, trees and plants : their honie , of the gummes and clammine fe of tras that are alcion, as Willow, Cimes, Kab, Juice, Summe, and Kosen : Ariftorle faith, they make their Combes of flowies, their Mare, of Gummes, and their Bony, of the dew of the Ayze, that falleth chiefelp at the riging of the ftarres, and that there is no honie made before the riling of the feauen farres, and their combes of flowces, and that the Bas bo not of themfelues make the honic, but onely gather the honicd dein that falleth, because the kiepers finde the Celles to be filled in fome one,or tivo daies: and that the honie being taken alway in the end of Summer, the hives are not found to be furnified againe : though there be fowers enough at that time. This, and much more hereof (faith Arificele) whom Plnie following, affirmeth honie to be made of the Ayze molt of all, at therifing of the farres. shiefelv the Dogge thining out earchy in the morning : there fore you thall finde in the morning betimes, the leaves of the trees bed. web with honie, as you thall likewife have the Aps parcell, Dayze, and Beards, of fuch as have beene carely abroad.

171

In the mouning, our Common people call it Manna, og Hong- Manna, Dew, cleaning to the leaves befoze the rifing of the Sunne as it were Snow, of rather Candico-Sugar. Whether it be the fineate or excrement of the Beauens, or a certaine fpittle of the Starres, oz a invecthat the appe purgeth from himfelfe : holufa= ener it be. I would to Bod it were fuch as it first came from as boue and not corrupted with the vapeurs and damps of the earth. Belides, being fucked by from the leaues by the Bas, and dis gefted in their Dawes (for they caft it by at their mouthes) and allo diffempered with the fent of the flowers, ill fealoned in the Biues, and to often altred and transformed, loting much of his heavenilb vertue, bath yet a plealant and speciall celeffiall finite neffe in it. The belt Doney is of Time (as 3 have fapo befoze) The beft and good likewife of Cithifus, of the figge Ere bern pleafant ; Honey of Vario faith, they take not their fuffenance, and their Boney Time. both from one. A great part of their fore is water, which muff not be far from them, and mult be bery cleans, which is arcatly to wirpole in making of god Honey. And becaule every leafon fuffes reth them not to be abroad, they mult at fuch times be fed. leaft they thould then be forced to live all byon the Boney, or to leave the Biues emptie, Some giue bnto them Water and Boner, lots Bees, their Den together in little beals, putting into it purple woil, through Winterthe which they luckeit, for feare of drinking to much, or prote foode. ning themfelues : others, Day figges, either famped by them. felues, or mingled with water, or the droffe of Braves, or Reas fins mingled with fwete Wine, and toffs made therewith, oz with Boney : yea, I have fiene fome ble (but in my fancie without realon) to give them 15ay Salt. Dozeouer, as the 15as reonire great loking to continually, and their Bines Dayly attens Dance, To most of all they craue diligent regard, Juben they are as bout to Stuarme, whereunto if pou have not a great god eve, they will bid you farewell, and ficke a new Maifter. For fuchis the nature of 15 cs, that with every Pzince, is bred a Commons Going awealth, which as lone as they are able to tranalle, doe as it mere way of dil daine the gouernment and fellowlyippe of the old Bie, which Bees, and molt hapneth when the Swarmes be great and luffle, and that thereof. the old Stagers are disposed to fend abroad their Colonies : and therefore you thall by two tokens specially know when the new ADzinces 2171

ofthe King.

To keepe the King at home.

ring leader of the diffention, whom you muft take away. What The hape the proportion and thape of the Bing is, 3 haue told you a little before, that is, fomething longer then the other 15 is, and leffer minged, of a faire and gliffering colour, finoth, and without ffing. Hambett, fome of them be thagheard, and ill coloured, which are naught, and to be willed: Let the best (as he faith) weare the Crowne : who must himfelfe allo be deprived of his wings, if he he to bulle headed, and will alwairs be carrying his people abroad: to thall you, with the loffe of his farles, keepe him at home fright of his teth, while he dare not for want of his wings benture out of the dores, and fo fall he kepe his people at home. Dydimus writeth, that the 15 as will neuer ave away, if you rub the mouth of your Dine with the bung of a new calued Calfe. To the fame end feruethit, if you fampe the leanes of wilde Dlives, and Garden Olives together, and annoint the Dives in the cuening there withall : or if you walk the Biues and the walles with Bo. nep fooden with water. Withen an old focke is come to a fmalt number, and that there be not Bes enough to furnifh the Blue, you mult lupply the want with a new Swarme, deftroving the Bing of the firft fwarme in the Spring. fo fhall both the fivarms dwell together in amitie with the old Parents, as Chalbe Chewed you hereafter, where 3 means to speake of repaying the focke. The Summer being pall, enfueth the time for taking of Boner. to which harueft the travaile of the whole tendeth. The time for Gelding or driving gathering thereof, Columella teacheth to be then, when we persthe Hives. ceive the Drones to be briven out, and banifped by the 13 es : for

The Drone.

Time for Combs.

thence thep Drive the droulie Drone away. This Drone is an on. timely birth, and an unverfect 15k. but bery like buts the 15k. fane that he is blager bodyed, lying alluaies the in the hine, not labouring himfelfe, but fading like a lubber on the fweate of his fellowes, pet ferueth he for the bredding and bringing by of the young : which when he hath done, they thank him out of the hine. Varro appointeth this featons for the taking out the houp : taking the the first at therifing of the leaven Starres : the fecond in Sums mer : the third at the fetting of the feauen Starres : this frane is when the biurs be heavie, and that they be double furnished. Bou may make pour confecture by the Birs, when thep make. great note within, and when you fie them Rand dauncing, and plaving

playing at their dozes, as allo, if loking into the Bine, you pers ceive the mouthes of the Combs to be covered with a Boney fime. Dydimus thinketh it to be the beft time at the first haruch, the rifing of the leaven Starres, or the beginning of May : the fecond, the beginning of Autumne : the third, the letting of the feauen Starres, which is about Daober : holubeit, thefe times be not almaics precifely to be obferued, but according to the fore mardnelle of the leafon : for if to be you take the honey before the Combs be readie, they take it ill, and prefently leave working. The time for gelding, or driving your 15 as, is earlie in the more ning : for you must not at none trouble your hiucs. For this kinde of gelding of your hives, you must have two instruments for the nonce, a fote and a halfe long and more : the one of them must be a long knife of a goo bredth having at the end a bending croke to fcrape withall : the other must be plaine, and berg tharpe, that with the one you may cut the Combs, and with the other scrape them, and draw out what sever dregges or filth you finde in them. And if pour hines be not open behinde, you thall make a fmoke with Galbanum, oz Dzp dung, being put into an ears then pan made for the purpole, finall at the one end, from whence the imoke thall come and broad at the other from which you fhall blow by the imoke from the fire, in fuch fort, as Columella thewas eth you. This pot you must fuffer at the first, to smoke into the hine, and aftermard round about without, and fo thall you drive them. De that medleth in this cafe with the Bas, muft specially Beeshate kepe hintelfe from letcheric, and drunkennes, and walk hinfelfe theeves cleane : for they love to have fuch as come about them to be as and vnpure and cleane as may be. They delight in cleanlineffe fo much, fore as they themfelues doe remove from them all filthynelle, luffe, ring no filth to remain amongst their labours, raking by in heaps fogether the excrements of their stone bodies, which in the rains daies, when they worke not abroad, they remane and throw out of. the hine. If you fet Barlick by them, they will Eing all that come nere them. Their anger is chiefely allwaged by the prefence of those that use to tend them, at whose comming they ware milter, being well acquainted with those that are their keyers. If there betwo fluarmes in one hine, and agricd together, they naue two forts and manner of Combs, every fivarme observing

173

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his owne order, but all the Combes to hang by therefes of the hives and lides, as they touch not the ground where the Mains ble chiefely to walke, as I faid before of the building of their Falhioning Combes. The falhion of their Combes, is alwaies according to the fallion of their hines, fometimes fquare, fometimes round. Combes. fometimes long as the hives are, in which they are fathioned as in a mould. Plinic writeth, that there were Boney-Combes found in Bermanic, of eight fote in length : but howloever they be, you mult not take them all out, but mult ble diferetion in tak king of them. Amongt our people in the firt Bie haruelt (if 3 may is fearme it) they ble with their croked knife, to pare alway no more but the emptie Celles, till they come to those that be full. taking hede that they hurt them not: and this they doe in the Spring. In the latter haruelt, that is, at the end of Summer. they take the Combes full of Honey. in fuch fort, (as I told you) burning the old Bas, and alway kaping and preferuing the young fwarmes. In the first taking, when the Debowes are full of floinzes, they leave the fift part of the Combes behinde : in the latter harneft, when winter approcheth, they leave a third of their Combes for the fultenance of the Be. But this quantitie cannot certainely be prefcribed for all Countries, but muft be measured according to the abundance, or want of flowres. Dydimus Thafcus, thinketh and to leave them a tenth of their Combes in the Summer time, if the Biues be bery full, otherwife, according to the proportion: and if they be emptie not to meddle with them. Plinic would not have the Honey of the Spring-time (which he calleth flowze Honie) to be medled withall, but to be fpared. De thers leave no Honic at all for them, because of the abundance of flowers that are then foringing, which is the chiefe foundation of their Combes. Such as be Ckilfulleft doe leave the Bas a twelfth part of their labour : and this they do about thirty daies after the fwarme, which they make an end of commonly in Day. The old and the corrupt Combes, are for the most part at this time taken away : and the found, and fuch as are filled with Bo. nic, left. In taking of the Bonie at the later time of the pare, they bis to deftrop the oldeft flocks, to fave the charges of fee bing of them. This driving and gelding of Hives is not come monly bled in the Countrey, but they rather, according to their cuffomg.

cultome, at the end of the yers burne them, alledging for their authoritic an old English Proverbe of their owne :

Drive Bees, and loofe Bees : burne Bees, and have Bees.

And in fome places they drowne them. When you have thus foois led your Dives, you thall carry all your Combes into fome hands fome place, where you meane to make your Boney, and foure by all the holes and creutles of the walles and windowes, as close as you may : for the 15 as will be bery buffe to recover the pray. Bour Dives being thus driven, if there be any ill placed Combes at the entrie, you shall alter them, and place them in and order, to as the toppes fand doluneward, to when you next geld them, you thall eallyer take out the olde Combes, and leave the new and the ware thall be the newer : which the older it is. the worle it is. Whenloever you take your Combes, loke that you Araine out the Boney the fame bay, while they are het and new. The Banie that you take at the full of the Done (as Plinie faith) poloeth molt, and the fayzer the day is, the thicker it is. The Combes being taken out, let them rather be warme, then heated, least by ouer-heating them, you frame out the Ware with the Bonie : afterward, put them into a god frong bagge, and with a Welle, or other Inftrument made for the purpole, or with a Wicker Bashet, preffe out the Bonie ; but fo that befoze pou preffe it, pou feuer from it fuch Combes, as haue in them young Biss, called with fome, Gaubbes, or any red or ruftie droffe : for thele with their cuill invec corrupt the Bonie. When the Bonie is thus firained out, it is put into earthen beffells, and fuffered to frand bucoucred a few dates, till it have wrought, and caft by aloft all his Dreas, which you mult often fcumme off with a little flicke : but in many places they are not to curicus, but fumble all together, and fofell it groffe as it is. The best Bonie is alwayes in the bottome, as the best Dyle aloft, and the best Wine in the midit.

CHENOBOSCVS. What Countrics yields the belt Hosnie, and which count you the belt?

M E L L Is s E v s. The beft Bonte was in the elde time The beft -thought to be in Athens, and in Cycill: it is now thought very god Honie. that commeth from Molcours, and the Posth-cast Regions.

The:

The Bony at the beginning is thin as water, and after the firate ning, it worketh like new Wine, and purgeth: at the twentieth day, it wareth thicke, and after wards is couered with a thin rine. or filme, where the froth of the purging is gathered together. The beft Hony, and leaft infected, the Bies doe gather from the leaves of the Dke, the Lind tree, and the Red. There is thee forts of Bony, the beft kinde is that which is called Authim, or flowre- Honie, made in the Spring time : the nert, is Summer bony, oz haftr-hony, made in thirtie daves after the tenth of June. when the Dogge begins to come in : the third is Beath hony, a wilde kinde of hony, and not allowed, being gathered after the first thomas of Autumne. while the heath is flow 2ed: and therfore like the Sandy hony. The beft hony (as Diophanes faith) is cleare, pellowilh. Imoth in touching, & fine, roping, if it be drawen in length, and long flicking together, clammy, and hard to be got a lander: the Bony that is of the work making, is to be boyled. 152ead, if it be dipped in it, doth ftraight corrupt it, and therefore take hed you put it not where bread hath bene. The fragments, of the Coame that bath once bene preffed, being taken out, heated and frained againe, doe make a fecond Bony, which you muf vut bp, and kepe by it felfe, for fpopling of the other. Paughtie, and counterfeit Bony is descerned by the burning, for ill hony burs neth notcleare.as the faid Diophanes witnelleth. The droffe that remaineth, after the prefling, after that you have diligently was thed it in fluckt water, must be put in a braffe Caldron, and puts ting alittle water thereto, melted byon the fire, which when you have done. you must fraine the Ware through a Sive, or fuch like thing made of Straw, oz Kulhes: and after lith illagaine, and powzing it into fome beffell with water, from whence you may eafily take it, make it by in cakes, or what fathion you like. Plinic writeth, that the Coames must first be walked well, and afters ward dayed in the darke, for the fuace of three dayes, & the fourth , day let upon the fire in a new earthen veffell, to as the Coames be concred with water, and then frained through a Sine: laft of all, boyled agains in the fame beffell, and the fame water, and powzed into vefiels with colde water, having their fides nointed with Honv. The Ware will be bery white after it hath ftod in sin the Sunne, and being thile lodden : von Chall make it blacke Swith

Three forts of Honny.

Bread corrupteth Hony.

The making of Waxe.

with the Albes of Paper, and being mingled with Aermillion, it will be red, and to other wife coloured as you lift.

CHENEBOS. If in the making of your Hony your Bas be almost confumed, what wayes have you to repaire them ?

MEL. Withen as an olde focke is come to be finall, and that Bees de. pon are to furnily out the number, you muft deftrop (as I fayd) caved. the new king in the Spring time, when there is a new brod in the Dine, that the new people without difcord, may dwell with The repaitheir olde parents. And if fo be the Coames have not yalded a rine of nem brod, vou muft take the divellers of two or thrie other hines, them. F put them into one, but fo(as you remember befoze) to fpzinckle them with some fluct licour, and to thut them by with fod conucnient for them, till they be fully acquainted, leaving but little breathing holes about the Dine, & kepe them thus enclosed their dayes. Dthers doe ble to kill the elder king, but that Columella alloweth not : but if the king be very old, (the age of Bies Chall thoutly be theined buto you) and the people alwaies given to fedia tion, then thall you choic a king from the Diues, that have mot number of kings. I told you before how you thould make them as grie, when you put two fwarms together, left they fould deftrop one another, that is, to take away the kings of the new fwarmes.

CHENOBOS. What if the whole flocke be decayed by taking the Pony, or by fickenes, and difeales, will they band againe e or may they be repayed by art ?

 $M \in L$. By both, though the bixding, and ingending of Bixs Breeding is bery doubtfull with Arifforle, neither dare he after his long diff of Bees. putations, affirme any certaintie thereof: fometime he reciteth the opinions of others, fome thinking that they are ingendeed by copulation, the Deane being the male, and the Bix the female : other faying, that they being forth young, but doe not ingender, but that they gather their yong ones, but from whence, they know not. Some fay, from the flowses of Marioram : fome, from the flowses of the Riede : others from the Dime flowses, because whenformer there is great plenty of Dimes, there is allo great fwarmes of Bixs. There are againe that thinke the Deanes to be fog athered, and the Bixs to be bed onely of the kings: and a little after, he faith, The young are the beff bixed, when the hony is made, they labour with their legs the Thare, and with their mouth

mouth they call out the Donie into the Cels, and having laid their poung, they fit boon them as Birds Doe. I he little Wome or Brubbe , being thus hatched while he is fmall , lpeth crumplen bu in the Coame: after ward, fprawleth abroad by his olune force. and falleth to febing, cleaning to to the Coame, as he femeth to be tied. The biod of the 15 a, and the Dione, is lubite, of which commeth little Womes, that after grow to Bes, and Drones: thus much, and more, faith Ariftotle. In other places he woold feme to gather, that the Bes are ingendzed of the kings, faving, that if this were not there were no reason for such things as are committed in their gouernment, and that the kings by god read fon, remaine fill in the Bine without any trauaile, as only borne for bieding. Befide, they begreater, as though their badies were purpolely framed for generation, f they punils the Drones. At is not bery likely that the children thould punify the Barents. therefore the Biss are not ingendred of Drones. Belides, it is agreat argument, that Bies are ingendred without copulation. that their brode lieth very finall at the firft, wrapped by in the holes of Celles of their Coames , whereas all other Flies and We ormes that are bred by copulation , doe long ingender , and quickly lay in greatnelle, according to the kinde of the Worme. Plinie following berein Ariftotle, affirmeth, that 13 ks doe fit as Bennes doe boon their Egges : and that which is hatched, is at the firft a fmall white worme. lying croffe the hole, and cleaning in fuch fost, as it femeth to febe. The king is at the firft, of a vellowilb colour.as a cholen flowze, framed of the fineft lubitance. neither is he beed a Worme, but with winges at the bery firit. The other common fort, when they begin to have fathion, are cale led Dimphes, as the Diones, the Sircus, and the Cepheus, whole heads , if any man chance to pull off, they ferue as a delicate ford to the bieders. After a little time, they powe into them fooc, and fit bpon them (making a great noile, as it is thought to proe cure a heat necessary for their hatching) till breaking a funder the filmes that encloseth enery one of them like an Egge, the whole brode commeth forth. Plinic addeth, that this was liene and obe ferued at Rome, in a Diue made of Lanterne homes: the whole biode is finished in five and fourtie dates. As some as they are brought out, they are taught to trauaile Araightwayes with their Dammes,

nammes, the young people maiting prefently byon their young hing. There are fundap kings baco for failing, and when they come to age, by common confent, the fouleft and butowardeft of them are defreved. That there is two forts, and what fathion they be of, Ttold you befoze.

CHENOBOS. Let bs now heare fome thing of their age. The ave MELLIS. Their age (they lay) may thus be knowen. Such of Bees. as arenot aboue a være olde, doe fbine, and læke as they were neinly oyled : the old ones be rough, thanhaved, insinckled, loathe fome, s ill fauozed to loke bpon howbeit, for making of Coames. thefe are the beft. Ariftotle in his boke before mentioned affir, meth , that Bes live fire og feauen peres ; and that if'a focke continue nine og tenne pieresthe keper of them hath good lucke. Plinic matteth.that one focke was never fene to continue abous ten væres, not though you supply the places of the dead cuery viere with new : for commonly in the tenth viere after the first hining, the whole flocke dieth. And therefore to anothe the mil. chiefe of being biterly deflitute, it is god to encreafe the number of your Biues with new Swarmes euerp pere. And if fo be pour Bes, through ludden forme, tempeft, or colo, lie bead byon the Bees that around, you mult gather them togetiver into a platter, or a broad be dead. halon, and lay them in your houle toward the South, specially if the weather be good, after, caft amongft them Athes of Figge tre inoo, being fomething moze bot; then warme, hake them sently by and downe, fo as you touch them not with your hands; and fo fetting them into the Sunne, they will (as Varro fapth) quicken againe. To whom Columella fubfcribing, addeth, that fuch Wies as you finde dead buder your hines, if you lay them bp in a dap place all the Winter, and baing them out into the Sunne in the Spring, when the weather is faire, and fprinchle them with the forefaid Albes, they will recover within afew houres. They thatlift, map prone it. I have not bitherto tried it. Marcus Varro holdeth opinion, that 15 as are ingendzed fometime of other Making. Bes, and fome times of the body of a yong Bullocke putrifico, of Bees. reciting this Opigramme of Archelaus.

Of Steere that firangled is are children firangely bred, Of Horfe ingendred is the Walpe, and Bee; of Bullocke dead. The Horfes breed the Walpes, the Bullockes breed the Bees.

F03 -

For a young Dre, or Stære, being ftrangled, corrupted, and caft into some such place, where the putrified bapour can not breath out, and froze of hearbs and flowres, agræing with the nature of the Bæs thruft into the boey, as Time, Cassia, and such like, where with the bapour may be tempered, you shal hereof quickely have Bæs, even as you may of the body of a horse like wife order red, have Malpes and Hornets. Virgill hath described both the manners of ingendring of Bæs, and the first sort, in these words.

This vie, you vvonder vvould, doth pleafe the Bee, The Chaines vnchaft of Venus they detelt : To file themfelues vvith filthie lechery They judge vnmeet, nor will be fo increaft. But from the plants and pleafant flowres fweet, They fetch their tender brood, and hence they get : Both King and Court, and whatfoeuer's meet To raife their vvalles, and Empyre vp to fet.

The other manners, or repairing of Bes by art, the fame Poet eloquently thus touched.

But if your Bees doe happen all to die,

The breeders gone, that should their race renew : His leffon learne, vvhofe skilfull cunning hie, Made Bees, vvith bloud of Bullockes that he flew,&c.

Bees made of a Steere.

The manner how Bis are ingendred of a Bullobke. Virgill doth largely discourse out of Mago, and Demberitus. Dou muft frame a little houle fourelquare, about ten cubits in bredth, e as much in height, with foure windowes, on every fide one. A yong fat Stere being brought bp hither, his pole, his Carcs, and all other oven bents Ropped, & filled with linnen, dipped in Bitch, must be beaten with numbers of clubbes to death. to as both the bones and the fleft, may be broken without any blod; for of the blod commeth the Bie. Afterward, the house being depe frawed with Time, and the Bullocke laid byon his backe, the dozes and the windowes mult be close that by, and to plaitered, as there can no aire enter. Theie weekes after, the windowes muft be opened on every fide, lave where the winde bloweth ftrongeft, and the light and the aire let in: when it hath bene well coled & refreshed. the windows mult be thut by againc, and made as close as before : and being opened the eleventh day after you thall finde the house full 1.791

full of Bas, and nothing left of the Dre, faue the homes, the have, and the bones: they hold opinion belides, that the kings are engendeed of the beam, and the other Bas of the body.

PVLLARIVS. I like not fo coffly comming by Bis.

MEL. Of the fame opinion is Columella: I tel you but the order of the old fkilfull fellows, you may chose whether you will try it.

CHENOBOS. I had rather you would tell be what ficknels fes and dileales they are lubicat to, and how we may know the fickneffes, and in what fort to helpe them.

MELISSEVS. I will willingly thew you. The fignes and Signes of tokens of their health, as if they be lively, quicke, and many in ficknelle number : if their workmanship be neatly and equally wrought : if they goe about their bulinetle charefully, and if they loke faire and smothe. The fignes of their not being in health, is, if they loke loathfomely, be rough and havie, ercept in the time of their labour. when they commonly loke like labourers, or be drolufie, oz if you for them carrying out of dead carkaffes, and following the corfes, after the manner of moneners, or that you heare no nople, not firring amongft them. Thele fignes when you fie, Columella willeth you to give them meate in little troughes of Redes, specially Ponie fodden, and ground with Balles, or Ros fes. Dou muit allo to heale them, perfume them with Galbanum, Realins, oz old frigges of Graves. If the king havven to ove, the common people waile and mourne with great heavineffemeither will they make any provision for their owne sufferance : and therefoze if you fiede them not, they will family themselves.

PISSINAR IVS. With what difeales are they molt bered ?

M ELIS. They are many times infected with the Pettilence, The difeaagainst which you have no other remedie, then to fener the hines fes of Bees, farre alunder. Their chiefest and early ficknes, is in the beginning of the fpring, when the Spurge and the Elme doe both flowze: for as byon new fruits, fo at their first comming abroad, entiled with these new flowzes, being almost hunger starmen with the winter passed, they field to greedily as they fall into a flir, whereof if they be not quickly remedied, they die. For Spurge doth lose the bellies of all other creatures, but the flowzes of Elme bringeth onely the flire to the B&. And therefore in such Toumtries, where there is great plentic of these trees, the bas continue

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but a subile. Columella teacheth you against this difease, to give them Kolemary fooden with mater and Bonie: fome againe ble to give them the fale of men. oz Bullocks: as alfo the graines of the Domegranate beaten, and fpzinckled with Wine oz Bealing. with the like quantitie of Danna kneaded together, & gluen them in tharpe wine, bopled in an earthen beffell, and powzed into little 36 mores. Virgill Deferibeth an hearbe, called Aumellus, with a pels low falke, and a purple flowse, the tupce of whole rate being fod, Den in old Wine, and frained out, is bery and to be given them. Columella out of Higimus, teacheth to remedy them in this fort : Firff. to take out all the rotten and corrupt Combes. and to give them frelb meate. & after to verfume them with imoke. It is god alfo to put to a decaved hive, a new fwarme.as I faid before. The nie times they die of a difeafe which they call. The great devouring, which hapneth when they have made to much ware, as they thinke they Chalbe able to fill, and after wards, by ftorme and tem. peff, many of them be deffroved, fo that the remaine fufficeth not to fill the Combes, whereby the emptie parts of the Combes bes commeth rotten, and to by little and little infecteth both the bonie and the Bas: for which the onely remedie is either to put in a new fwarme to fill by the cells, or if you have no fuch fwarms; to cut alway part of the Combes before they come to be naught; which you muft doe with a very tharpe knife, for feare of difpla. cing the reft of the Combs. A canfe befide many times of the death of the Bes, is their to much prosperitic, as when there are dis uers pares great abundance of flowces, a the 15 as to bulie in their fieding, that they forget their breding, who over-wearping themfelues with trauaile, they die, not leaving any brade behinde them. It is called Blapfigonia, when either by fickneffe, flothfuls nes.ozbarrenneffe.they leaue no fruit behinde them. To remedy this: It is god every third day, to thut by the hines close leaving but very fmall holes, out of which they cannot crape, fo thall they be forced to loke to their brade, lohen as they cannot other wife range abroad. Hany times bifides they are the caule of their elune deaths, when perceiving their Donie to goe away, they fiede to arcedilie. Their owne honie both alfo many times deftrop them: for being touched with it on the backe, they are fo limed, as they sannot flirre ; and Dyle both not onely kill Bies, but alfoall other

other like creatures, Flyes, and Mormes. They hate all file this fanours, and fing fuch as fmell of Dyntments : they are of. ten befieged with Malpes, Hoznets, and great Gnattes : the Smallow both oftentimes fpople them : the Walmopecker both fuith his long tongue, thauft into the hine, licke by their honie : and Divers other 15irds (as I have faid befoze) annoy them. The Tobe bloweth them, and lucketh them bp at their owne dages. inho fuffaines no hart by their flinging. Shape are allo burtfull and trouble fome to Bies, in whole flieces they tangle thema felues, as they can hardly get out. In the walte woods of Sarma- To keepe tia, where they make their Combes in the hollow Firre tras, Becsfrom the 15 care, foz the defire of the Donie, climeth op to them, and Beares. rebbeth them. Againft thele Beares, the Bee-keepers ble to hang before their hives great. Paules, and Betles, which the more ana certie the Beare floueth alide, with the greater fluay they come byon his head againe, whereby the Bas are well defended. The fauour of Creuilles, if any man boyle them nere to them, both bill the Bes. The Eccois allo a great enemie to them, that with her refounding, doth thake and feare them : and hurtfull to them is allo the Bill. The Spider is allo their deadly foe, and where they can prevaile, make hauocke of the hives, fetting their webs and nets in every comer, to overthaow the poze Be. The nights "Butterflie, that flyeth about the canole, is hurtfullto them two wates : for they both confume the Combes, and of their ereres ments left behinde them, is ingendzed Dothes: in the very wood befide, biedeth a Mozme that confumeth the Mare. Thefe burtfull Mermine, the carefull keeper mut diligenty labour to bettrop and prevent, and loke that he plucke bp all fuch bullies and plants as offendeth them, not fuffering any fuch to grow nere them, and to kepe all hurtfull Cattell from them, letting them alwaies have fuch things at hand, as they most belight in. For the Bieper hath worke enough to turne him to all the viere long : for after the twelfth of Darch their Dines muft be opened Hines purand loked buto, that all the rubbilh, and filth of the Minter may ged in the be fivept away, and the Spiders that fpople the Combes plucked Spring. out, and that they may be fmoked with fmoke made of Dre bung, oz linnen (as I fpake of befoze:) foz finoke is of nature profitable Smoke to the Bas. And though it be troublefonte for the time to them, good for Bees.

22

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pet it is certainely very wholfome for them. The Wlozmes, bes fides Bothes, and Butterflyes, muft be killed, which cleaning like a peftilence to the Combes, doe fall away if you mingle with your bung the marrow of the Dre, and laying it bpon the coales, make your make : with this order mall your fwarmes be kept ftill in health, and thall be better able to abive their labour : this knoe of purging them must be often bled, from the Balents of April till the fall of the leafe. The Brever muft hieve himfelte (as Flaid before) cleane from drunkennes, letcherie, and all buckeane and firong fanouring fents : for they love to be purely and faiths fully loked buto (as hath bene often faid.) About an eight and fortie daies after the entring of the Summe into Aries, they begin to fwarme, and at the fame time do many focks perify, that have fi w and difcaled 15 cs. About the fame time are bred in the outermost part of the Combes a bewde of a great bignes : which fome count to be the Bings: others call them Bras, because they course and chafe the Bos, and therfore thinks it and to deftrop them. From the riling of the feauen Starres, that is, from the fift 3des of Day, till the tenth, or the twelfth of June, they ble to call their Times for fwarming. fivarines : at which fealons they must be carefully loked buto for going alwap : from that time till the rifing of the Dog, or the comming in of the Dog dates, which is almost thirty dates. (as Columella faith) the harucft is both for Honie and Come.

Oefti.

In what fort the hives are to be driven and delded, it is the fued before : but at this time, and till the twelith of September, the bines muft be ovened euervtenth day, & finoked. The blues being thus fmoked, you maft refreth the Bas, with fprinckling and cas fing into the constic parts of their bines, bery freth and co'd was ter: and if any thing remains, not walked away, you muft flore e it out with a Owfe wing. Belides, the Bothes, if they appeare. much be fluceped a way, and the Butterflies billed, which divelling. in the biues are commonly a bane to the 15 ws: for they both cate by the Wlare, and with their dung doe breede a kinde of Wlorme To defiroy that they call Bine-mothes. These Butterflies.as Columella tra-Butterfires. cheth, you may when the Mallow flowseth (at which time there is greatelt number of them) deftrop in this fort. Dou must have a vellell of braffe, very high and fraight, narrow necked and mous thed, in the bottome whereof you must have a light, and let it in

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the evening niere buto your hives, and you thall fie all the But, terflies ftraightwaics fall to the light, and while they play about the flame, they burne themfelues, while they can neither get by, by reason of the firaightnes, nog fun the fire, by meanes of the heafen walles. Betwirt the rifing of the Dog, and of the Bearce inard, which are almost fiftie dates, you must take god hed your 15 ks be not fuoyled by Doznets, which at that time lie in waight for them. even at their olvne doges. After the rifing of the 15 car, ward, about the twelfth, og fourtenth of September, is the fecond harneft of your Bony: from that time, till the letting of the feauen frarres. which is about fortie dapes, the Bies do prouide for their winter floze , of the flowzes of Beath, Tamarifke, and other bulles and furubs, of which provision you muft take nothing, left pou difcourage them, & drive them away: from the fetting of the feauen ftars (which is about the entrance of Pouember) the be Not flurainning(if we may belieue Plinie) of winter. The Bes live all the ring of winter long vpon luch floze of Bony as they have laid by: at this Bees in. Winter. time, the Dines muft be opened & cleanfed of whatfoener filth is in them, and diligently ozdzed, foz during the winter time, your Diges mult neither be opened noz ftirred, and therefoze in the end of Summer, while the weather is yet milde and temperate, your Hines being made cleane in fome funny day. fie that you thruft buder them certaine close couers that may reach to the bery bottome of the Coames, not leauing any boide fpace, whereby the Bine thall be the warmer. When you have this done, clofe by e. nery rift and open place with Clay, and Bullockes bung mingled together dawbing it all over without, leaving onely a little hole to come in and out at. Dou muft arme them allo against the cold tempeft, with god conertures of Straw and Boughs, Some ble to put in the Dives finall Birds being drawen, which with their feathers keepe the 15 is warme all the Winter, and there with, if they happen to lacke foo, they feed themfelues fufficiently. Dea. it hath beine liene they have to fed bpon them, as they have left nothing but the bare bones : howbeit, as long as their Hony luf ficeth, they never meddle with the birds. It is bery god and ne cellary (as I told you befoze) to let them meat in little Troughs or tactors, to defend themfelues againft famine. Wichen Winter is pall, in the space of forty dayes, they make an end of all their 23

Dony,

Honie, ercept their kæper deale the moze liberally with them. It hath often alfobæne fæne, that their Combes being empfie, they have continued faffing, till the Jdes of Februarie, and cleauing to the Combes, as if they were dead, yet have retayned their life : but leaft they thould lofe it altogether, it is god to powze them in fome fixet e liquours by little pipes, whereby they may faftaine their lines, till the Swallow with her appearing, promife a welcomer feafon.

After which time, when the weather will fuffer them, they begin to fike abroad for themfelues : for after the Sunne is in the Equinoctiall, they never reft but travell painefully every day, and gather flowers, and neceffaries for their brieding.

Befides, becaufe fe w places are fo fruitfull, as to veld flofuzes both Summer and Winter: therefore in fuch places. where after the Spring and Summer (at which times, both Beanes, Raves, Willows, and other plants and hearbs, in eucry place do flowze) the flowzes doe fayle, they are carried of divers (and that in the night, as I told pou befoze) into fuch places, whereas there is god foze of late flowzing hearbs, as Time, Wide Parferum, and Sauerie, wher with they may be fed and gather food at their pleasure : and as Columella ingiteth, that Biss in the olde time. were brought from the fields of Achaia, to the pattures of Achens, and to transported in divers other places. So may we with bs carry them from places where the flowces be confumed in the Spring, to the Summer flowres, as Clouer, and fuch other : and after that, about the end of the Summer, to places furnithed with Beath, Tamarilke, and fuch other late bearing flowers. for the anoyding of this inconvenience of carrying from place to place, 3 will thew you in inhat fort I have ordred my 15 & pard at home. And becaufe Bafter Hersbach hath fhewed you befoze in his Gar, den many and hearbes, and yet not whereto they ferue, I will them you a few plants, that I have fet about my 25 ks, ferging both for their commoditie, and the health of my houshold : I have cholen of a great number, fuch as be molt necestarie, & of greateff bertue : whole speciall bertues, and wonderfull workings, given oncly by the molt gratious and bountifull framer of the world. and being as it were lucked and dratone out by the carefull tople and biligence of the 15 k, mult needes abde a greater perfection to their. Ş

180

their honic and their ware. I have firft enclosed the Pard where my Bes fland, with a Duicklet-hedge made of Black thome and Bony luckle : the one of them feruing the Be with his flowces at the beginnieg of the Spring; and the other at the latter end of Summer. The first, the Black-thome bearcth a pleafant white Blackeflowze, fo much the welcomer to the Bie, as it is the bery fares thorne. well of the winter : for he commonly flowseth not till the winter be paft. Thefe floluzes newly gathered & fixped all anight in the beff and ftrongeff wine, and after wards biffilled in Balneo Marie, being drunke, helpeth any paine in the fides, as bath biene certain, lie proved. Tragus the Germane confecteth, that with this onely water he hath cured all maner of paines about the fomack, heart, oz fides. Wiline made of the Sloe, and preferued untill Julie, oz August, when the bloudy Flir most raigneth, is a foueraigne mes Dicine againft it. The other the Bony fuckle, of the Madbine, woodhine beginneth to flowce in June, a continueth with a paffing fiver fas nour, till the very latter end of fummer. The water thereof diffils led and drunk, tho or three daies together at times, allwageth the heate of the Comacke, helpeth the Cough, and thoztnes of breath. Raas of linnen dipped therein, and applyed, doe heale any heate of the Cies. or Liver. Pert onto my hives. I have planted the fiert hearbe Melilla og Apialtrum, called in Englith, Balme; with a Balme. Iquare falke, a leafe like a finoth pettle, and a vellow flowze, and groweth almost in every hedge, an hearbe well knowne to the old women in the Countrie, and greatly defired of the Bie. This Melitla, oz Balme, fodden in white Wine, and dzunke two oz thzie momings together.purgeth the breft. helps the flort-winded, coms forteth the heart, driveth away the dumpily heavineffe, that pros chebeth of Delanchow, helveth the Falling-ficknette, and almost all other difeafes : being chopped fmall, and fteped a night in god luhite luine, and after wards diffilled, is greatly commended, not onely in delinering Women from their pangs and griefes of the Hother, being dzunke to the quantitie of their og foure Spones fulls, but allo cureth the paines or fainting of the heart, called commonly, The pallion of the heart. Cardanus greatly commens deth this hearbe, for the comforting and remaing of a decayed mes morp: and affirmeth, that it is a caufer of fivete & plefant flepes. Pert unto this have I growing that finite and precious hearbe, Angellica, 24

Forwart of Treacle, you may take the whole dramme.

Cardus Benedi-Eus.

Angellica, whole feedes I first receiued from that berfuous and Angellica. godly Lady, the Lady Golding in Kent, a Oentlewoman that fet. teth her jubole felicitie in the feare and feruice of the Almiahtie: this Dearbe is in flowze, fed, leafe, falke, and fauour, folike bus to Lonage, as they may hardly be difcerned the one from the c. ther, the leafe both in a manner refemble the Figge leafe, fauing that it is more tagged, and indented round about. If any man be fuodenly infected with the veffilence, feuer, oz immoderate fweat. let him take of the rot of this Angellica in pouder, halfe a dram. and putting to it a dramme of Treacle ; mingle them together inith their or foure formefuls of the water diffilled of the faid rot. and after he hath drunke it let him lie and flocat, falling for the fuace of their houres at the leaft: this boing, by the helpe of God. he thail cleave the danger: the rote fixped in Ainegar, and finelt buto, and the fame Tinegar fome times brunke falling, doth pres ferue a man from the peffilence: to be thost, the rot and the loas ter thereof, is foueraigne against all inward difeafes, it fcolnacth alway the collections of a Plurifie beginning, helpeth Alcered and corrupted Lungs, and is good againft the Chollicke, Strans qurie, and reftraint of Momens Burgations, and for any inward fwelling, or inflamation, the inpre thruft into a hollew toth, allvageth the paine, the water dropped into the eare, doth the like : the land invce and water put into the eye, quickeneth the fight, and taketh away the thin fkinnes and rines that couch reth the eye. 15elides, a molt prefent remedy in all dape and rots ten fores, is the invce, the water or the powder : for it clenfeth them, and couereth the bone with god field. It was called in the old time Panacea, og Healeal. Dert buto this Angellica, haue I arolning in great plentie, Cardus Benedictus, oz bleffed Shiffle, which the Empirickes, or common Proalifers, do commend for fundip and great bertues, affirming that it was first fent out of India, to Fredericke the Emperoz, for the great bertue it had againft the Beadach, oz Degrime, being caten oz dzunken. Likemile, they fay, it helpeth against the daying, or giddinesse of the head, maketh a god memorie, and reftoreth the hearing. For the profe of his great force against poplon, they bring forth a young mais ben of Pauy that having bulwares eaten of a poploned Apple and therewithall fo fluollen , as no Treacie , og medicine could sure

cure her, was at the laft reftozed to health, by the diffilled water of this Thiffle: and like wife that a boy, into whole mouth as he flept in the field, havvened an Adder to crieve, was fauch by the brinks ing of this water, the Adder creeping out behinde, without any hurt to the childe. In fine they affirme, that the leanes, invce, fird, and water, healeth all kinde of poplons, and that the water bath healed a woman, whole breft was eaten with a Canker to the bery ribbes. I have allo fet into this little piece of around, areat fore of the hearbe called Namularia , or Denigraffe , which crics Penigraffe peth close by the ground, having byon a long fring little round leaues, fanding directly one against the other, and a vellow flowce, like the Croe-fot. It is a foueralane hearbe for heas ling of wounds, not onely outward and griene wounds, but allo inward fores and bleers, specially of the Lungs, whereof there hath beine and piofe. Tragus affirmeth, that he hath fiene dans acrous and defuerate wounds cured with this hearbe, being bois led with Hony and Wine and drunke. At healeth erulcerations of the Break and Lungs, and may be well given to those that Cough, and are flort breathed, and to little children difeafed with the drie Cough. who by reason of their tender age may take no Aronger medicine. I have fiene and plentie of it growing by the Chadoluje Ditches, about areat-Deckam in Bent. I have bes fibe there growing, Scabious, an hearbe that groweth common, Scabious. ly in Come, with a lagged leafe, lying round byon the ground, and thrufting out in Summer a long falke, with funder branches, the flowce growing in blew knobs.o: tuftes, like hony Combes. This hearbe being fodden with Wine, and drunke, doth helpe the Plurifie, against which vifeales, the women of the countrey, that many times take byon them to be great Doctrelles in Phis ficke. Do fill the water thereof in Day, and give it to be bunken at each time, two or three frontuls, not onely against the Pluets fie, but against inward imposternes, conches, and all difeates of the break. Against imposernes, divers (as Tragus writeth) doe make this composition, they take a handfull of Scabious, the bearbe dried, of Liqueriffe cut finall an onnce, thelue figges, Fenell feed an ounce, Anifeed as much, Deas halfe an ounce, these they lay a night in water : the next day they boile them, till a third part be confumed, and after making it fwith Suger,

92--

er Donie of Koles, they give it warme in the Poining and Cure ning, where with they fap, the imposterne is ripenco, made foft, and coughed out.

PVLLARIVS. Fremember, that pallage by the house of that Donourable Baron, the Lord Cobham (whole house you fhall feldome for without great refort, by reafon of his noble bifpolition, and honourable intertainement that hee giucth to all commers) 3 chanced to fee in his Parke at Cobham, a certaine Veronica: hearbe called Veronica, whereof I have heard bertues.

MELLISSEVS. That can Jallo fiele von amonaft the hearbes that I have about my Bes : it is called of fome Feucriuum.and Veronica, as it is fuppoled of acertaine French Ling. who was thought by the inverthereof, to be cured of a great Lee profie, it is called in Englith Fluellin : it crepeth low by the ground, as Penigraffe doth, and beareth a leafe like the Blackes thome, with a blewith fpeckled flowse, with a feed inclosed in little powches, like a thepheards purle, and groweth commonly buder Dkcs, D. Hieron writeth, that the force thereof, is maruellous agains the Defilence, and contactious avzes, and that he himfelfe hath oftentimes preued. The water of the hearbe fixped in white Wine and diffilled, there withall be hath cured funder times, hot burning and peffilent Feauers, as well in young men, as in old, Hieron Transchweyg, commended it to be fingue ler and for all difeates of the Spliene : the thepheards of Germas nie glue it with great profit made in powder, and mingled with Salt, to their Cattell difealed with the Cough : being freved in Wine and diffilled, it is a most prefent remedie in all veffie lent Feauers : being given two ounces thereof with a little Treacle, and after laid warme in bed, and well conered, it erpels leththe poilon by flucat, and driveth it from the heart. The was fer of this hearbe taken certaine daies together, two ounces at a time, helpeth the turn ficke giddineffe of the head, boideth fleame, purgeth bloud, loarmeth the ftomacke, openeth the ftops ring of the Liver, healeth the difeates of the Lungs, and the Splæne, purgeth the Claines, the Matrice, and the Bladder, it bliueth out flucat and benome, helpeth the Jandife, the ftone of the Reines, and other arienous difeales. Dou Gall alfo have amonaft these plants of mine, the god fluit hearbe Cariphilata,

or of fome Benedicta : of others, Sanamanda, called in Englith Auens, whole roote whether it be ariene. oz old, refembleth the Cloue in fauour : the leafe is lagged, rough, of a Darkilly griene, and not much bulike to Agrimony : the flowse is vellow, and after the falling thereof, leaueth a prickly knoppe like a Beoges hogge : the rote the longer it both growen, the functor it is : the speciall ble of this rote in some countries, is to be put in Wine in the Spring-time : for it maketh the Mine to talke and fauone bery pleafantly : which Wine, as many hold opinion, both glad the heart, openeth the oblicuation of the Liver, and healeth the fomacke that is overburdened with cold and grolle humours : this ente boiled in Unine and given warme. both cease the griefe of the ftomacke, or the belly, proceeding of cyther cold, or winde, Bard by this hearbe ; have I planted the great water Berony . calles of fame Ocimafirum, of Mathiolus, Scrophularia Maior : it hath a great fquare falke, & bigge leafeindented round about: the flowce is in colour Buryle, and in fathion like the thell of a Smalle : it floweth in June and July, and groweth moft by waters in hadowie places. Tragus teacheth to make a speciall ovntment thercofferuing against all Scabbes and Sozes, wherea with he faith, he bath fone people fo mangie, as they have formed even Levers to be cured : his ovntment is this. Take the hearbe, rotes, and all, gathered in Day, walked and well cleanled from all filth, ftampe it, and ftraine out the inpre, and keepe it in a nare roin mouthed Glaffe well Ropped, wherein you may keepe it a whole være, and whenfoener vou lift to make your ovntment. take of the fame inpce, of Ware, and Dyle, of each a like quantity. and bayle them together byon a Chafindilb of coles, firring them well, till they be incorporated, and to ble it. Mathiolus teacheth to make a fingular opntment thereof againft Bernels, the Bings cuill, and the Bemerodes : his order is this. Don muft gather the rotes in the end of Summer, and after that you have made them bery cleane, famp them together with frefh Butter, and putting them into an earthen veffell close coucred, fet them by its fome moult and dampily place, fuffering it there to remaine fog. the space of fiftience baves : afterwards, let the fame 1Butter. be melted with a loft fire, and being well ftrained, lay it by for your ble. There have A allo another, excellent hearbe, called

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Cardiaca. called in Latine Cardiaca, J know no name for it in Englith, ercept you will call it Hother-wort: and indeed it is the very true Pother-wort it groweth by high waies, and neere to frome wals, it hath a leafe fomething like a Pettle, but more indented, the leanes nert to the rote being iagged like the Croe-fote: it groweth bulhing with many falkes, J have fiene it plentifully in Surry, and fome froze of it about Paidstone in Kent: it is of great force against any fickness of the heart, where of it taketh his name: it helpeth Crampes, and Palsies, it cleanseth the break from fleame, it killeth More in the bodie, openeth cold obfiructions, provoketh vrine, and Momens courses: being made in powder, and a sponefull of it given in Mine, it wonderfully helpeth the hard labours of Momen.

Betonie,

CHENOBOSCVS. J Peruaile you have no floze of Betony alfo: foz I have fiene the Bies labour diligently byon it, and have heard, that it is of great vertue.

MELLISSEVS. I have great floze indeed of it, but that I forgat to tell vou of it, it is knowen to commonly, as I neede not to deferie it buto you : wholoener is troubled with breaking of winde, and weakeneffe of ftomacke, and those whose ftomacks retaine not their meate, or wholoever fieles lower belching from thier ftomacks, and is there with often troubled, let them continue ally ble Betony, epther the hearbe of flowie boyled in Wine.oz the water diffilled, or the Conferue (as they call it) of the flowzes. And if to be you lacke the Conferue, of the water, you may ble the drie hearbe in powder, eyther by it felfe, or with hony : women that are troubled with the Dother, may ble this hearbe for their remedie. To be hort, the flowre, leafe, and rote of Betony fodden and dzunke, oz howfocuer you will, in Electuas rie, Conferue, Sirop, Pocion, oz Powder, as you lift to take it. is fingular goo in the dileales of the Stomacke, Liver, Spleene, Kidnies, and Bladder, it frith the Matrice from obstruction.and draweth from thence all hurtfull molflures. For confumptions of the Lungs, Coughes, Droplies, continuall and putrified Feuers, proceeding from the Stomacke, boile the leaves and flowres of Berony in honied water, and you thall have prefent helpe. Thus have I thewed you what kinde of hearbes I have planted about my Bees, to the end they fould have fode at hand of the

the fwateft, and the wholefomeft : 7 have thewed you allo the vertues of the hearbe, the flowie, and the water, that you may ble it for your slone commoditic: only this warning I give you. that you doe not diffill them, as the unfailfull doe, in ftilles of Lead, Tinne, and Braffe, which poiloneth and fpoileth the mater, but in Glaffe Stils, fet in fome beffell of fuater upon the fire, whereby your water thall be most verfect and wholefome. The Difference of these two diffillings, appearetly plaine: for crample, in TI semetions, which if you diffil in your common Stillatories. the water commeth out fluct, having gotten a corrupt qualitie by the nature and corruption of the Dettali : inhereas, if von doe it in Stils made of Glatte, loking that the Glaffes be well clofed. round about, your water thail have the bery taffe, fauour, and pros pertie of the Bearbe. With thefe Glaffe Stils von may fo order your fire, as you may dealy out of cuery hearbe, the Wlater, Spirit, Dule, and Salt, to the great comfort of ficke and difeafed perfons. 7 fet befites great plenty of Sanozy, Death, Camarifhe, and without the Beyard, Brome, in whole flowces the Bie much delighteth. 3 hape vou here peraduenture to long in fo fmalla matter.

Small is the thing. yet fmall is not the gaine.

If gratious Gods permit, and Phæbus not difdaine. As the Beathen Poet witch: but I will hære make an end of my take, that hath perhaps bære thought to long.

F. I. N. I. S.

Soli Deo gloria.

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Olde English Rules, for purchasing Land.

Who fo will be wife in purchasing, Let him confider these points following.

First, see that the Land be cleare, In title of the seller. And that it stand in danger Of no womans Dowrie. See whether the Tenure be bond or free, And release of euery feoffee. See that the feller be of age, And that it lie not in morgage. Whether a taile be thereof found, And whether it fland in flatute bound. Confider what service longeth thereto, And what quitrent thereout must goe. And if it be come of a wedded woman, Thinkethouthen on couert baron, And if thou may in any wife, Make thy Charter with warrantife. To thee, thine heyres, alsignes alfo, Thus should a wife purchaser doc.





