BOHN'S CLASSICAL LIBRARY.

NATURAL HISTORY OF PLINY.

VOL. IV.

Botanical Library, University of Minnesota.

THE

NATURAL HISTORY

OF

PLINY.

TRANSLATED,

WITH COPIOUS NOTES AND ILLUSTRATIONS

BY THE LATE

JOHN BOSTOCK, M.D., F.R.S.,

AND

H. T. RILEY, Esq., B.A.,

LATE SCHOLAR OF CLARE HALL, CAMBRIDGE.

VOL. IV.

LONDON: GEORGE BELL & SONS, YORK STREET, COVENT GARDEN.

1890.

LONDON:

PRINTED BY WILLIAM CLOWES AND SONS, LIMITED, STAMFORD STREET AND CHARING CROSS.

OF THE FOURTH VOLUME.

BOOK XVIII.

THE NATURAL HISTORY OF GRAIN.			1	Page
CHAP.			1	rage
1. Taste of the ancients for agriculture	• •	• •	• •	3
2. When the first wreaths of corn were used at Rome	• •	• •	• • .	4
3. The jugerum of land	0 707	nonka	hlm	7
4. How often and on what occasions corn has sold at	a rei	патка	inry	7
low price	• •	• •	• •	9
5. Illustrious men who have written upon agriculture	• •	• •	• •	11
6. Points to be observed in buying land	• •	• •		13
7. The proper arrangements for a farm-house	• •	• •		
o Maxima of the ancients on agriculture		• •	• •	16
9. The different kinds of grain	• •	• •	• •	19
9. The different kinds of grain	• •	• •	• •	ib.
11 Spelt	• •	• •	• •	24
- C TITI /				25
12. Wheat	• •	• •		27
14. Polenta	• •	• •	• •	28
15 Dison				29
16. Tragum		• •	• •	ib.
17. Amylum	• •	• •	• •	ib.
16. Tragum 17. Amylum 18. The nature of barley	. • • .		• •	30
19. Arinca, and other kinds of grain that are grown in	rine 1	Last		31
20 Winter wheat. Similago, or fine flour		• •	• •	32
21 The fruitfulness of Africa in wheat			• •	35
22 Sesame Erysimum or irio. Horminum	• •		• •	36
23. The mode of grinding corn			• •	ib
24 Millet		• •	• •	38
or to .				ib
26. The various kinds of leaven				ib
26. The various kinds of leaven 27. The method of making bread: origin of the art	• •	• •	• •	39
28 When hakers were first introduced at nome			• •	4(
29. Alica		• •		4
30. The leguminous plants: the bean			• •	
31 Lantile Page				4

Сна	_	Page
	The several kinds of chick-pease	46
⊍ ⊿.	The kidney-bean	47
99. 94	The rape	ib.
04.	The turnip	48
<i>5</i> 0.	The turnip	49
36.	The lupine The vetch The fitch Silicia	51
37.	The vetch	ib.
38.	The fitch	ib.
39.	Silicia	52
40.	Secale or asia	
41.	Secale or asia Farrago: the cracca Ocinum: ervilia	iō.
42.	Ocinum: ervilia	ib.
43.	Lucerne	53
44.	Lucerne	54
45.	The best remedies for the diseases of grain	. 57
46.	The crops that should be sown in the different soils	59
47.	The different systems of cultivation employed by various nation	s 50
48.	The various kinds of ploughs	. 62
49.	The mode of ploughing	ib.
50.	The methods of harrowing, stubbing, and hoeing, employed fo	\mathbf{r}
00.	each description of grain. The use of the harrow	66
51	Extreme fertility of soil	67
52	The method of sowing more than once in the year	. 68
52. 53	The manuring of land	
51.	How to ascertain the quality of seed	69
55	What quantity of each kind of grain is requisite for sowing	, 00 9
<i>55</i> .	what quantity of each kind of grain is requisite for sowing	. 71
F 0	jugerum	72
90.	The proper times for sowing	. ,,, ,
01.	Arrangement of the stars according to the terrestral days am	74
-0	nights	77
58.	The rising and setting of the stars	. 78
59.	The epochs of the seasons	
60.	The proper time for winter sowing	_
61.	When to sow the leguminous plants and the poppy	
62.	Work to be done in the country in each month respectively	
63.	Work to be done at the winter solstice	. 82
64.	Work to be done between the winter solstice and the prevalence	e .
	of the west winds	, 83
65.	Work to be done between the prevalence of the west winds an	d a
	the vernal equinox	. 84
66.	Work to be done after the vernal equinox	. 86
67.	Work to be done after the rising of the Vergiliæ: hay-making	, 88
68.	The summer solstice	, 92
	Causes of sterility	. 97
70.	Remedies against these noxious influences	. 101
71.	. Work to be done after the summer solstice	. 102
	The harvest	. 103
	The methods of storing corn	. 104
74	The vintage, and the works of autumn	. 107
75	The revolutions of the moon	. 111
	TITO TO LONGITUDO OF ANTO TITO CON IL	

	CONTENTS. VII
CHAP	The theory of the winds
	Decomposition derived from the bulk
	The amounting derived from the mount of the second
80.	Prognostics derived from thunder.
0.0	The amounting derived from clouds
	To a moderned derived from musis
	To a month of derived from the killuled by man
	To an action derived from Waler
	The amounting derived from Lembests
~ =	Decorporties derived from adulatic animals and bilds
0.0	Drognostics derived from quadrupeus
90	Promostics derived from plants
90.	Prognostics derived from food
	BOOK XIX.
THE	E NATURE AND CULTIVATION OF FLAX, AND AN ACCOUNT OF VARIOUS
	GARDEN PLANTS.
**	The nature of flax—marvellous facts relative thereto
1.	How flax is sown: twenty-seven principal varieties of it 131
2. 3	
• 0.	The mode of preparing flax
4.	At what period linen was first dved
5.	At what period finds was his ayou
5.	. At what period coloured awnings were first employed in the
5. 6.	. At what period coloured awnings were first employed in the theatres
5. 6.	At what period then was hist dyed. At what period coloured awnings were first employed in the theatres
5. 6. 7. 8.	At what period online was hist dyed. At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9.	At what period among was hist discussions. At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9.	At what period online was hist difference where the theatres
5. 6. 7. 8. 9.	At what period onloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10.	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11.	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11.	At what period coloured awnings were first employed in the theatres The nature of spartum The mode of preparing spartum At what period spartum was first employed The bulb eriophorus Plants which spring up and grow without a root—plants which grow, but cannot be reproduced from seed Misy; iton; and geranion Particulars connected with the truffle The pezica
5. 6. 7. 8. 9. 10. 11. 12. 13.	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	At what period onloured awnings were first employed in the theatres The nature of spartum The mode of preparing spartum At what period spartum was first employed At what period spartum was first employed The bulb eriophorus Plants which spring up and grow without a root—plants which grow, but cannot be reproduced from seed Misy; iton; and geranion Particulars connected with the truffle The pezica Laserpitium, laser, and maspetum Magydaris 147
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16.	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	At what period intent was first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18 19 20	At what period intent was first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18 19 20	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18 19 20	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18 19 20	At what period coloured awnings were first employed in the theatres
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18 19 20	At what period coloured awnings were first employed in the theatres

CHA				Page
23.	Vegetables of a cartilaginous nature—cucumbers.	Pepon	es	156
24.	Gourds		•• ••	158
25.	Rape. Turnips	• •		161
	. Radishes			162
				165
	The skirret		• • • •	166
	Elecampane		•	167
30.	Bulbs, squills, and arum		• • • •	_
31	The roots, flowers, and leaves of all these plants.	Garden		
,	which lose their leaves			
32.	Varieties of the onion		• • • • •	
	The leek		••	
34	Garlie			174
	The number of days required for the respective	nlants to	o make	
00.	their appearance above ground			177
36	The nature of the various seeds	• •	• • • •	178
37	The nature of the various seeds Plants of which there is but a single kind. Plants	of which	h thoro	110
01.	are several kinds	OI WILLO	и спете	179
28	are several kinds	n nlanta	Tho	110
9 0.			. Inc	180
30		• •	• • • •	182
40.		• • •	• • •	183
40.			••	
49			• • • •	185
				188
				190
44.		mum; 1		101
15	T)		•• ••	191
	Rue		•• ••	ib.
	Parsley	• •	••	192
47.		•• •	• • •	ib.
40.	Olusatrum	••	• • •	193
49.	The caraway		• • •	194
ου. Ε1	Lovage	• • •	• •	ib.
	Dittander		• • • •	195
	Gith	••		ib.
53.	The poppy	••_ •		196
54.	Other plants which require to be sown at the auti	ımnal e	quinox	197
55.	Wild thyme; sisymbrium	•	• •	ib.
<i>5</i> 6.	Four kinds of ferulaceous plants. Hemp			198
5 .7.	The maladies of garden plants	•• •		199
58.	The proper remedies for these maladies. How ar	ıts are b	est de-	
 .	stroyed. The best remedies against caterpillars	and flie	es	200
59.	What plants are benefitted by salt water	••		201
60.	The proper method of watering gardens	••	•	ib.
61.	The juices and flavours of garden herbs	• •		202
62.	Piperitis, libanotis, and smyrnium.			203

BOOK XX.

REMEDIES DERIVED FROM THE GARDEN PLANTS.

Сна	P.		Page
٦,	Introduction		206
9	The wild cucumber: twenty-six remedies	• •	
\mathbf{Q}	Flaterium: twenty-seven remedies		
A.	The anguine or erratic cucumber: five remedies		209
5.	The cultivated cucumber: nine remedies		210
6.	Pepones: eleven remedies	• •	
7.	Pepones: eleven remedies The gourd: seventeen remedies. The somphus: one remedy		212
8.	The colocynthis: ten remedies		ib.
9	Rape: nine remedies		213
10	Wild rape: one remedy		214
11	Turnips; those known as bunion and bunias: five remedies		
12.	The wild radish, or armoracia: one remedy		215
13	The cultivated radish: forty-three remedies		
14	The parsnip: five remedies. The hibiscum, wild mallow	, or	
1 1.	plistolochia: eleven remedies	´	
15	The staphylinos, or wild parsnip: twenty-two remedies	• •	• 7
16	Gingidion: one remedy.		
17	The skirret: eleven remedies	• •	220
	Sile, or hartwort: twelve remedies	• •	
	Elecampane: eleven remedies		
	Onions: twenty-seven remedies		
	Cutleek: thirty-two remedies		
22.	Bulbed leek: thirty-nine remedies		
23	Garlie: sixty-one remedies		
24	Garlie: sixty-one remedies	re-	
<i>2</i> 1.	medies	-0	228
25	Cæsapon: one remedy. Isatis: one remedy. The wild letter	nce ·	
20.	seven remedies	••	
26	Hawk-weed: seventeen remedies		
	Beet: twenty-four remedies		$\frac{232}{232}$
28	Limonion, or neuroides: three remedies	• •	233
20.	Endive: three remedies	• •	ih
30.	Cichorium or chreston, otherwise called pancration, or amb	nla ·	
00.	twelve remedies		
21		••	ib.
	Hedypnoïs: four remedies Seris, three varieties of it: seven remedies borrowed from i		235
33,	The cabbage: eighty-seven remedies. Recipes mentioned by	lato.	
	Opinions of the Greeks relative thereto	Jaio	237
		• •	$\frac{231}{239}$
	Cabbage-sprouts	• •	$\begin{array}{c} 233 \\ 240 \end{array}$
	The wild cabbage: thirty-seven remedies	• •	$\begin{array}{c} 240 \\ 241 \end{array}$
	The lapsana: one remedy	• •	ib.
30.	The sea-cabbage; one remedy	• •	ib.
40 40	The squill: twenty-three remedies	• •	243
TU.	Bulbs: thirty remedies		440

Сн				Page
41.	Bulbine: one remedy. Bulb emetic	• •		$2\overline{4}$
42.	Garden asparagus; with the next, twenty-four remedies			248
43.	Corruda, libycum, or orminum			ib
44.	Parsley: seventeen remedies		• •	
45.	Apiastrum, or melissophyllum			
4 6.	Olusatrum or Hipposelinon: eleven remedies. Oreo	selin	on:	
	two remedies. Helioselinon: one remedy			
47.	Petroselinon: one remedy. Buselinon: one remedy	• •		ib
48.	Ocimum: thirty-five remedies	• •	• •	249
49.	Rocket: twelve remedies	• •	• •	250
50.	Nasturtium: forty-two remedies			251
51.	Nasturtium: forty-two remedies		• •	$\frac{1}{252}$
52.	Wild mint: twenty remedies			$\frac{1}{256}$
53.	Mint: forty-one remedies		• •	$\frac{257}{257}$
54 .	Pennyroyal: twenty-five remedies			2:59
55.	Wild pennyroyal: seventeen remedies.		•••	$\frac{260}{260}$
56	Nen · nine remedies	• •	• •	261
57	Nep: nine remedies	on tr	 	201
٠,.	remedies	-		262
58	remedies		• •	
50.	Ammi: ten remedies	• •	• •	263
60	The capparis or caper: eighteen remedies	• •	• •	264
61	Ligusticum, or lovage: four remedies	• •	• •	265
60	Cunila bubula: five remedies	• •	•	ib
62	Cunila gallinacea, or origanum: five remedies	• •	• •	266
00.	Cunilago: eight remedies	• •	• •	ib.
04. 65	Soft cunila: three remedies. Libanotis: three remedies	• •	• •	ib.
00.	Cultivated cunila: three remedies. Mountain cunila: se	∍ven	re-	
0.0	medies Piperitis, or siliquastrum: five remedies	• •	• •	267
00.	Piperitis, or siliquastrum: five remedies	• •	• •	ib.
67.	Origanum, onitis, or prasion: six remedies	• •	• •	268
68.	Tragoriganum: nine remedies		• •	ib.
69.	Three varieties of Heracleotic origanum: thirty remedies		٠.	ib.
	Dittander: three remedies	• •	• •	270
71.	Gith, or melanthion: twenty-three remedies	• •	• •	ib.
72.	Anise: sixty-one remedies Where the best anise is found: various remedies derive	,	• •	271
73.	Where the best anise is found: various remedies derive	d fr	om	
	this plant	• •		272
	Dill: nine remedies	• •	• •	274
75.	Sacopenium, or sagapenon: thirteen remedies			ib.
76.	The white poppy: three remedies. The black poppy: en	ight	re-	
	medies. Remarks on sleep. Opium. Remarks in di	sfav	our	
	of the potions known as "anodynes, febrifuges, dig	cestiv	ves.	
	and celiacs." In what way the juices of these plants	are	tó	
	be collected	• •		275
77.	The poppy called rheas: two remedies		• •	278
78.	The wild poppy called ceratitis, glaucium, or paralium:	six	re-	
	medies.			ib.
79.	The wild poppy called heraclium, or aphron: four re-	medi	es.	
	Diacodion	~ ~**		ih

		Page
CHAP		279
80.	The poppy carred titily match, or paration. Since temesters in	410
81.	Porcillaca or purslain, otherwise called peplis: twenty-five re-	900
	medies	280
82.	Coriander: twenty-one remedies	282
0.0	Orago: fourteen remedies	ib.
84	The mallow called malope: thirteen remedies. The mallow	
	colled malache: one remedy. The mallow called altheat or	
	plistolochia: fifty-nine remedies Wild lapathum or oxalis, otherwise called lapathum canther-	283
0.5	Wild langthum or oxalis, otherwise called langthum canther-	
59.	inum, or rumex: one remedy. Hydrolapathum: two reme-	
	dies. Hippolapathum: six remedies. Oxylapathum: four	
	dies. hippotapathum. six temeties. Oxytapathum: tour	287
	remedies	201
86.	Cultivated lapathum: twenty-one remedies. Dulapathum: one	000
	remedy Mustard, the three kinds of it: forty-four remedies	288
87.	Mustard, the three kinds of it: forty-four remedies	ib.
88.	Adarca: forty-eight remedies	290
89.	Marrubium or prasion, otherwise linostrophon, philopais, or	
	philochares: twenty-nine remedies	ib.
90	philochares: twenty-nine remedies	292
01	Sisymbrium or thymbræum: twenty-three remedies	293
91.	Linseed: thirty remedies	294
92.	Blite: six remedies	295
	Meum, and meum athamanticum: seven remedies	ib.
94.	Meum, and meum amananticum. Seven remedies	296
95.	Fennel: twenty-two remedies	
9 6.	Hippomarathron, or myrsineum: five remedies	ib.
	Hemp: nine remedies	297
	Fennel-giant: eight remedies	298
99.	The thistle or scolymos: six remedies	299
100.	The composition of theriaca	ib.
	BOOK XXI.	
A.	N ACCOUNT OF FLOWERS, AND THOSE USED FOR CHAPLETS MO	RE
	PARTICULARLY.	
1.	The nature of flowers and gardens	304
		ib.
3.	Garlands and chaplets	
•	ceived the name of "corollæ," and for what reason	305
4	. Who was the first to give chaplets with leaves of silver and	
1.	gold. Lemnisci: who was the first to emboss them	306
- E	The great honour in which chaplets were held by the ancient	
	The severity of the ancients in reference to chaplets	307
7	. A citizen decked with flowers by the Roman people	308
8	. Plaited chaplets. Needle-work chaplets. Nard-leaf chaplets	•
	Silken chaplets	ib
9	. Authors who have written on flowers. An anecdote relative to	
	Queen Cleopatra and chaplets	308

хi

CHA:		age
10.	The rose: twelve varieties of it	$3\overline{10}$
11.	The lily: four varieties of it	314
12.	The narcissus: three varieties of it How seed is stained to produce tinted flowers	316
13.	How seed is stained to produce tinted flowers	317
14.	How the several varieties of the violet are respectively produced,	
	grown, and cultivated. The three different colours of the	
	violet. The five varieties of the yellow violet	317
15.	The caltha. The scopa regia	
16.	The bacchar. The combretum. Asarum	
	Saffron: in what places it grows best. What flowers were	•••
+!.	known at the time of the Trojan war	319
1.0	The nature of odours	
10.	The iris	
AU.	The saliunca	324
20.		ib.
21.		
22.		326
23.	The amaranth	327
24.	The cyanos: the holochrysos	328
25.		ib.
26.		329
27.	Shrubs, the blossoms of which are used for chaplets	
28.	Shrubs, the leaves of which are used for chaplets	ib.
29.	The melothron, spiræa, and origanum. The cneorum or cassia;	
	two varieties of it. The melissophyllum or melittæna. The	
	melilote, otherwise known as Campanian garland	330
30.	Three varieties of trefoil: the myophonum	ib.
31.	Two varieties of thyme. Plants produced from blossoms and not	
	from seed	331
32.	Conyza	332
33.	The flower of Jove. The hemerocalles. The helenium. The	
	phlox. Plants in which the branches and roots are odoriferous	333
34.	The abrotonum. The adonium: two varieties of it. Plants	
	which reproduce themselves. The leucanthemum	334
35.	Two varieties of the amaracus	
36	The nyctegreton or chenamyche or nyctalops	335
37	Two varieties of the amaracus The nyctegreton, or chenamyche, or nyctalops Where the melilote is found	ib.
38	The succession in which flowers blossom: the spring flowers.	00.
00.	The violet. The chaplet anemone or phrenion. The herb	
	cenanthe. The melanthium. The helichrysos. The gladi-	
		336
20	olus. The hyacinth	990
oy.	The summer flowers—the lychnis: the tiphyon. Two varieties	
	of the pothos. Two varieties of the orsinum. The vincaper-	337
4.6	vinca or chamædaphne—a plant which is an ever-green	
40.	The duration of life in the various kinds of flowers	339
41.	Plants which should be sown among flowers for bees. The	. 7
40	cerintha	ib
	The maladies of bees, and the remedies for them	340
43.	The food of bees	ib

flower the whole year through

66. Plants in which the blossom makes its appearance before the

ib.

Снара		Page
	stem. Plants in which the stem appears before the blossom.	0 F 0
	Plants which blossom three times in the year	359
67.	The cypiros. The thesion	ib.
68.	The asphodel, or royal spear. The anthericus or albucus	ib.
69.	Six varieties of the rush: four remedies derived from the cypiros	361
70.	The cyperos: fourteen remedies. The cyperis. The cypira	363
71.	The holoschænus	364
72.	Ten remedies derived from the sweet-scented rush, or teuchites	ib.
7 3.	Remedies derived from the flowers before mentioned: thirty-two	
	remedies derived from the rose	ib.
74.	Twenty-one remedies derived from the lily	366
75.	Sixteen remedies derived from the narcissus	3 67
76.	Sixteen remedies derived from the narcissus Seventeen remedies derived from the violet	368
77.	Seventeen remedies derived from the bacchar. One remedy de-	
• • •	rived from the combretum	ib.
78	Eight remedies derived from asarum	369
79	Eight remedies derived from gallic nard	ib.
80	Eight remedies derived from gallic nard	370
81	Twenty remedies derived from saffron	ib.
82	Syrian crocomagna: two remedies	ib.
83	Forty-one remedies derived from the iris: two remedies derived	•••
00.	from the saliunca	371
84.	Eighteen remedies derived from the polium	372
85	Three remedies derived from the holochrysos. Six remedies de-	~,_
00.	rived from the chrysocome	373
86	Twenty-one remedies derived from the melissophyllum	
87	Thirteen remedies derived from the melilote	
	Four remedies derived from the trefoil	ib.
89	Twenty-eight remedies derived from thyme	375
90	Twenty-eight remedies derived from thyme	376
91	Five remedies derived from the helenium	ib.
92	Twenty-two remedies derived from the abrotonum	
93	One remedy derived from the leucanthemum. Nine remedies	
90.	derived from the amaracus	378
94.		379
	Six remedies derived from the cenanthe	380
	Eleven remedies derived from the helichrysos	ib.
97	Eight remedies derived from the hyacinth	381
98	Seven remedies derived from the lychnis	ib.
99	Four remedies derived from the vincapervinca	382
	Three remedies derived from butcher's broom	ib.
	Two remedies derived from the batis	ib.
	Two remedies derived from the colocasia	ib.
102.	Six remedies derived from the anthyllium or anthyllum	383
104	Eight remedies derived from the parthenium, leucanthes, or	500
TOT.	amaracus parthenrum, redealthes, or	ib.
105	Eight remedies derived from the trychnum or strychnum, hali-	***
T 00.	cacabum, callias, dorycnion, manicon, neuras, morio, or moly	384
106	Six remedies derived from the corchorus	386
$T \cap O$	MIGHT FORTH MONTH AND	

33. The halimon: fourteen remedies

419

CHA:	P.		_					rage
34.	The acanthus, pæderos, or melamp	hyllos:	five :	reme	edies	I= •	• •	421
35	The hunleuron: five remedies .			. •	• •			ib.
36	The buprestis: one remedy		• •	• •	• •	• • .	• *	422
37.	The elaphoboscon: nine remedies.					• •		ib.
o)(.	The scandix: nine remedies. The	e anthri	scum	: tv	vo rer	nedie	es	423
00.	The scandix. Inthe temedica	• `•	DO CLIA	••				ib.
39.	The issione: four remedies	• `• •	• •		• •	••	• •	424
40.	The caucalis: twelve remedies .		• •	••	• •	• •	• •	ib.
41.	The sium: eleven remedies	• ••	• •	• •	• •	• •	.* *	425
42.	The sillybum	•	• •	• •	• •	• •	• •	_
43.	The scolymos or limonia: five rem	edies	• •	• •	• •		• •	ib.
44.	The sonchos: two varieties: fiftee	n remed	dies	• •	• •	• •	• •	426
45.	The condrion or chondrylla: six r	emedies		• •	• •	• •	• •	427
46	Mushrooms: peculiarities of their	growth	l	• •			••,	428
47.	Fungi; signs by which the venom	ious kir	ids m	ay t	e rec	ogniz	red:	
	nine remedies			• •		• •	• •	429
18	Silphium: seven remedies				• •	• •		431
49	Laser: thirty-nine remedies							402
πυ 50	Propolis: five remedies						• •	434
00. 51	The various influences of different	alimen	ts un	on t	he di	snosi	tion	435
υI.	Hydromel: eighteen remedies	WIIII OX	up.	U.L. U.	40 44	opon.		406
02.	Honied wine: six remedies	• • •	• •	• •	• •	••	••	4.7
53.	Honled wine: six remedies	• • •	• •	• •	• •	• • •	• •	4 8
54.	Melitites: three remedies	• • • •	• •	• •	• •	• • •	• •	ib.
<i>55</i> .	Wax: eight remedies		••		••	• •	• •	
<i>5</i> 6.	Remarks in disparagement of med	nemai e	ompo	SILIO	11S		• •	409
	Demodres desired from grein Silic	ro · one	reme	auv.	VV 11	ear:	one	
57.	Remedies derived from grain. Silig	50.000	, I OIII	· · ·	. 3	70	0110	
57.	remedy. Chaff: two remedies	. Sper	t: on	$\mathbf{e} \; \mathbf{re}$	meay.	. B1	ran:	1
	remedy. Chaff: two remedies one remedy. Olyra or arinca:	two re	t: on medie	e re	meay.		ran:	440
58.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty	. Sper two res y-eight	t: on medie remed	e re s dies	meay.	 	ran:	440 441
58. 59.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies	two resy-eight	t: on medie reme	e re	meay.	· · ·	ran:	440
58. 59.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies Fine flour: five remedies. Puls	two resy-eight	t: on medie remed	e readies	medy. Meal	used	ran:	440 441 442
58. 59. 60.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies Fine flour: five remedies. Puls pasting papyrus, one remedy	two resy-eight	t: on medie remed	e remains dies	medy. Meal	used	ran:	440 441 442 <i>ib</i> .
58. 59. 60.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies Fine flour: five remedies. Puls pasting papyrus, one remedy	two resy-eight	t: on medie remed	e remains dies	medy. Meal	used	ran:	440 441 442 <i>ib.</i> 443
58. 59. 60.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies	two resy-eight	t: on medie remed	e re	medy. Meal	used	ran:	440 441 442 <i>ib.</i> 443
58. 59. 60.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies	two reight one r	t: on medie remed remed	e res	medy.	used	ran:	440 441 442 <i>ib</i> . 443 444 <i>ib</i> .
58. 59. 60.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies	two reight one r	t: on medie remed remed	e res	medy.	used	ran:	440 441 442 <i>ib</i> . 443 444 <i>ib</i> .
58. 59. 60.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame	two restrictions two restrictions to the two restrictions are restricted to the two restricted to	t: on medie remed remed three	e res	medy. Meal	used	ran:	440 441 442 <i>ib</i> . 443 444 <i>ib</i> .
58. 59. 60. 61. 62. 63.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies	two resy-eight one resolutions	t: on medie remed remed three	e res	Meal	used	for	440 441 442 <i>ib</i> . 443 444 <i>ib</i> . <i>id</i> .
58. 59. 60. 61. 62. 63.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse.	two results the results two results the re	t: on medie remed remed three	e res	Meal	used	for	440 441 442 <i>ib</i> . 443 444 <i>ib</i> . <i>ib</i> .
58. 59. 60. 61. 62. 63. 64.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy	two resy-eight one resolutions	t: on medie remed remed three	e res	Meal	used	for	 440 441 442 ib. 443 444 ib. ib. 445
58. 59. 60. 61. 62. 63. 64. 65.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies.	two resy-eight one resolutions to the state of the state	t: on medie remed remed three	e res	Meal	used	for	 440 441 442 ib. 443 444 ib. ib. 445 446
58. 59. 60. 61. 62. 63. 64. 65.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies. Amylum: eight remedies. Oats:	two resy-eight one resolutions one res	t: on medie remed remed three by	e res	Meal	used	for	ib. 443 444 ib. 445 446 ib.
58. 59. 60. 61. 62. 63. 64. 65.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies. Amylum: eight remedies. Oats: Bread: twenty-one remedies.	two resy-eight one resolutions one res	t: on medie remed remed three	e res	Meal	used	for	ib. 443 444 ib. 445 446 ib. 447
58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty. Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy. Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phœnice: one remedy. Ptisan: four remedies. Amylum: eight remedies. Oats: Bread: twenty-one remedies. Beans: sixteen remedies.	two results the results two results two results the results the results the results the results two results the results two results the re	t: on medie remed remed three by	e res	Meal	used	for	ib. 443 444 ib. id. 445 446 ib. 447 ib.
58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies. Amylum: eight remedies. Oats: Bread: twenty-one remedies. Beans: sixteen remedies Lentils: seventeen remedies.	two results the results the results the results the results two results the results two results the re	t: on medie remed remed three by	y.	medy. Meal medies	used	for	 440 441 442 ib. 443 444 ib. 445 446 ib. 447 ib. 448
58. 59. 60. 61. 62. 63. 64. 65. 67. 68. 69. 70. 71.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies. Amylum: eight remedies. Oats: Bread: twenty-one remedies. Beans: sixteen remedies Lentils: seventeen remedies. The elelisphacos, sphacos, or salvi	two results two results two results two results two results to the results two results two results to the results two results two results two results two results to the results two results the results the results the results the results two results the resul	t: on medie remed three by	y.	medy. Meal medies Gree	used ks ca	for alled	ib. 443 444 ib. 445 446 ib. 447 ib. 448 449
58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies. Amylum: eight remedies. Oats: Bread: twenty-one remedies. Beans: sixteen remedies Lentils: seventeen remedies The elelisphacos, sphacos, or salvithe chickpea and the chicheling v	two results two results two results two results two results to the results two results two results to the results two results two results two results two results to the results two results the results the results the results the results two results the resul	t: on medie remed three by	y.	medy. Meal medies Gree	used ks ca	for alled	440 441 442 <i>ib.</i> 443 444 <i>ib.</i> 445 446 <i>ib.</i> 447 <i>ib.</i> 448 449 450
58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies. Amylum: eight remedies. Oats: Bread: twenty-one remedies. Beans: sixteen remedies Lentils: seventeen remedies The elelisphacos, sphacos, or salvithe chickpea and the chicheling v	two results two results two results two results two results to the results two results two results to the results two results two results two results two results to the results two results the results the results the results the results two results the resul	t: on medie remed three by	y.	medy. Meal medies Gree	used ks ca	for alled	440 441 442 <i>ib.</i> 443 444 <i>ib.</i> 445 446 <i>ib.</i> 447 <i>ib.</i> 448 450 451
58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies. Amylum: eight remedies. Oats: Bread: twenty-one remedies. Beans: sixteen remedies Lentils: seventeen remedies The elelisphacos, sphacos, or salvithe chickpea and the chicheling was thirty-five remedies. Lupines: thirty-five remedies.	two results two results two results two results two results to the results two results the	t: on medie remed three by three twent twent	y. the	medy. Meal medies Gree	used ks ca	for alled	 440 441 442 ib. 443 444 ib. 445 446 ib. 447 ib. 448 449 450 451 452
58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72.	remedy. Chaff: two remedies one remedy. Olyra or arinca: The various kinds of meal: twenty Polenta: eight remedies. Fine flour: five remedies. Puls pasting papyrus, one remedy Alica: six remedies Millet: six remedies Panic: four remedies Panic: four remedies Sesame: seven remedies. Sesame cyricum: three remedies. Barley: nine remedies. Mouse phænice: one remedy Ptisan: four remedies. Amylum: eight remedies. Oats: Bread: twenty-one remedies. Beans: sixteen remedies Lentils: seventeen remedies The elelisphacos, sphacos, or salvithe chickpea and the chicheling v	two results two results two results two results two results to the results two results the	t: on medie remed three by three twent twent	y. the	medy. Meal medies Gree	used ks ca	for alled	440 441 442 <i>ib.</i> 443 444 <i>ib.</i> 445 446 <i>ib.</i> 447 <i>ib.</i> 448 450 451

	и
:	
•	CONTENTS. XVII
	Page
	CHAP. 77. Darnel: five remedies
	78. The plant miliaria: one remedy 455
	78. The plant initiality. 570 Bromos: one remedy
	70 Bramos: One Jemes
	91. Remedies for injuries inflicted by insects which breed among ib.
	tentillingus pianus
	82. The use made of the yeast of zythum 456
	BOOK XXIII.
	DOOK AAIII.
	THE REMEDIES DERIVED FROM THE CULTIVATED TREES.
	I Introduction
	1. Introduction
	7. THE VILLE
	3. THE TEAVES AND SHOULD OF THE VINE TO THE TEAVES AND THE TEAVES
	4. Omphacium extracted from the vine: fourteen remedies 459
	5. Enanthe: twenty-one remedies
	6 Granes, fresh gathered 401
	7. Various kinds of preserved grapes: eleven remedies ib
	8. Cuttings of the vine: one remedy
	9. Grape-stones: six remedies
	9. Grape-stories. Six remotions
	10. Orapo-hubits. Orano romodization
	11. THE STADES OF THE CHECKS TO THE TOTAL STATE OF THE ST
	Z. IMAIDIIIS, OI ADDAPTID: TO AL COOK TO ALLOW TO
	13. The astaphis agria, otherwise called staphis or taminia: twelve
	remedies 464
,	14. The labrusca, or wild vine: twelve remedies 465
	15. The salicastrum: twelve remedies ib.
1	16. The white vine, otherwise called ampeloleuce, staphyle, melothron,
	psilotrum, archezostis, cedrostis, or madon: thirty-one remedies 466
	psitolium, archezosols, courosuls, or madon, thirty of the plant wine otherwise called bryonia chironia evinecanthe.
	17. The black vine, otherwise called bryonia, chironia, gynæcanthe,
	of aproma, unity has compared to
	10. Must. Hitter Temodies
	19. Particulars relative to wine
	20. The Surrentine wines: three remedies. The Alban wines: two
s.	remedies. The Falernian wines: six remedies
	21. The Setine wines; one observation upon them. The Statan
	wines; one observation upon them. The Signian wines: one
	remedy
	22. Other wines: sixty-four remedies
	22. Straty-one observations relative to wine
	MO E DIMUY - OHO O DOOL 1 WOLD IN I CAWDE TO THE COLOR OF
	24. In what maladies wine should be administered; how it should be
	administered, and at what times
	25. Ninety-one observations with reference to wine 47
	26. Artificial wines ib
	20. III minoral winton
." \$.,	20. III difficial Willow
.* \$.	27. Vinegar: twenty-eight remedies

СнА		Page
29.	Oxymeli: seven remedies	. 481
30.	Sapa: seven remedies	ib.
31.	Sapa: seven remedies	
32.	Lees of vinegar: seventeen remedies	483
33.	Lees of sana: four remedies	484
34.	The leaves of the olive-tree: twenty-three remedies	ib.
35	The blossom of the olive: four remedies	ib.
38.	White olives: four remedies. Black olives: three remedies	
37.	Amurca of olives: twenty-one remedies	
38.	The leaves of the wild olive: sixteen remedies	487
39.	Omphacium: three remedies	
40.	Oil of cenanthe: twenty-eight remedies	ib.
41.	Castor oil: sixteen remedies Oil of almonds: sixteen remedies Oil of laurel: nine remedies	489
4 2.	Oil of almonds: sixteen remedies	490
43.	Oil of laurel: nine remedies	ib.
44.	Oil of myrtle: twenty remedies	ib.
45.	Oil of myrtle: twenty remedies	f
	citrus; oil of walnuts; oil of cnidium; oil of mastich; oil o	ť
	balanus; various remedies	491
4 6.	The cyprus, and the oil extracted from it; sixteen remdies	•
	Gleucinum: one remedy	492
47.	Oil of balsamum: fifteen remedies	ib.
48.	Malobathrum: five remedies	493
49.	Malobathrum: five remedies	•
	Oil of narcissus: one remedy. Oil of radishes: five remedies	•
	Oil of sesame: three remedies. Oil of lilies: three remedies	
	Oil of Selga: one remedy. Oil of Iguvium: one remedy	
	Elæomeli: two remedies. Oil of pitch: two remedies	
51.	The palm: nine remedies	ib.
52.	The palm which produces the myrobalanum: three remedies	495
53.	The palm called elate: sixteen remedies	
54.	Remedies derived from the blossoms, leaves, fruit, branches, bark	\$
	juices, roots, wood, and ashes of various kinds of trees. Six ob	•
	servations upon apples. Twenty-two observations upon quinces	•
	One observation upon struthea	496
<i>55.</i>	The sweet apples called melimela: six observations upon them	
	Sour apples: four observations upon them	497
	Citrons: five observations upon them	498
57.	Punic apples, or pomegranates: twenty-six remedies	ib.
	The composition called stomatice: fourteen remedies	499
	Cytinus: eight remedies	500
	Balaustium: twelve remedies	ib.
	The wild pomegranate	501
	Pears: twelve observations upon them	502
	Figs: one hundred and eleven observations upon them	ib.
64.	The wild fig: forty-two observations upon it	505
65.	The herb erineon: three remedies	507
66.	Plums: four observations upon them	ib.
	Peaches: two remedies	508

	CONTENTS.
-1 A	T.
jan 20	Wild plums: two remedies
20	Wild plums; two remedies The lichen on plum-trees; two remedies The lichen on plum-trees; two remedies
71	The medicament called stomatice, arteriace, or panelliestos, four
	nomodiae de la companya de la compan
0	Charries five observations upon them
	Modlers: two remedies. Sorbs: two remedies
	Ding-nuts: thirteen remedies
4.	Almonds: twenty-nine remedies
ð.	Greek nuts: one remedy
6.	Walnuts: twenty-four remedies. The Mithridatic antidote
7.	Hazel-nuts: three observations upon them. Pistachio-nuts:
8.	eight observations upon them. Chesnuts: five observations
	upon them
_	Carobs: five observations upon them. The cornel: one remedy.
9.	The fruit of the arbutus
	The fruit of the arbutus
0.	The laurel: sixty-nine observations upon it
31.	Myrtle: sixty observations upon it
2.	Myrtidanum: thirteen remedies
3.	The wild myrtle, otherwise called oxymyrsine, or chamæmyrsine,
	and the ruscus: six remedies

•

j

NATURAL HISTORY OF PLINY.

BOOK XVIII.

THE NATURAL HISTORY OF GRAIN.

CHAP. 1. (1.)—TASTE OF THE ANCIENTS FOR AGRICULTURE.

WE now pass on to the Natural History of the various grains, of the garden plants and flowers, and indeed of all the other productions, with the exception of the trees and shrubs, which the Earth, in her bounteousness, affords us—a boundless field for contemplation, if even we regard the herbs alone, when we take into consideration the varieties of them, their numbers, the flowers they produce, their odours, their colours, their juices, and the numerous properties they possess—all of which have been engendered by her with a view to either the preservation or the gratification of the human race.

On entering, however, upon this branch of my subject, it is my wish in the first place to plead the cause of the Earth, and to act as the advocate of her who is the common parent of all, although in the earlier part of this work I have already had occasion to speak in her defence. For my subject matter, as I proceed in the fulfilment of my task, will now lead me to consider her in the light of being the producer of various noxious substances as well; in consequence of which it is that we are in the habit of charging her with our crimes, and imputing to her a guilt that is our own. She has produced poisons, it is true; but who is it but man that has found them out? For the birds of the air and the beasts of the field, it is sufficient to be on their guard against them, and to keep at a distance from them. The elephant, we find, and the urus, know how to

sharpen² and renovate their teeth against the trunks of trees, and the rhinoceros against rocks; wild boars, again, point their tusks like so many poniards by the aid of both rocks and trees; and all animals, in fact, are aware how to prepare themselves for the infliction of injury upon others; but still, which is there among them all, with the exception of man, that dips his weapons in poison? As for ourselves, we envenom the point of the arrow,³ and we contrive to add to the destructive powers of iron itself; by the aid of poisons we taint the waters of the stream, and we infect the various elements of Nature; indeed, the very air even, which is the main support of life, we turn into a medium for the destruction of life.

And it is not that we are to suppose that animals are ignorant of these means of defence, for we have already had occasion to point out the preparations which they make against the attacks of the serpent, and the methods they devise for effecting a cure when wounded by it; and yet, among them all, there is not one that fights by the aid of the poison that belongs to another, with the sole exception of man. Let us then candidly confess our guilt, we who are not contented even with the poisons as Nature has produced them; for by far the greater portion of them, in fact, are artificially prepared by the human hand!

And then besides, is it not the fact, that there are many men, the very existence of whom is a baneful poison, as it were? Like that of the serpent, they dart their livid tongue, and the venom of their disposition corrodes every object upon which it concentrates itself. Ever vilifying and maligning, like the ill-omened birds of the night, they disturb the repose of that darkness which is so peculiarly their own, and break in upon the quiet of the night even, by their moans and wailings, the only sounds they are ever heard to emit. Like animals of inauspicious presage, they only cross our path to

² Of course this is only mere declamation; it is not probable that the animals have any notion at all of *sharpening* the weapons that nature has given; in addition to which, this mode of sharpening them against hard substances would only wear away the enamel, and ultimately destroy them. The acts of animals in a moment of rage or frenzy have evidently been mistaken here for the dictates of instinct, or even a superior intelligence.

³ See B. xxv. c. 25, and B. xxvii. c. 76. ⁴ In B. viii. c. 36. 41, 42. The works of the ancients, Fée remarks, are full of these puerilities.

prevent us from employing our energies or becoming useful to our fellow-men; and the only enjoyment that is sought by their abominable aspirations is centred in their universal hatred of mankind.

Still, however, even in this respect Nature has asserted her majestic sway; for how much more numerous are the good and estimable characters which she has produced! just in the same proportion that we find her giving birth to productions which are at once both salutary and nutritious to man. our high esteem for men such as these, and the commendations they bestow, that we shall be content to leave the others, like so many brakes and brambles, to the devouring flames of their own bad passions, and to persist in promoting the welfare of the human race; and this, with all the more energy and perseverance, from the circumstance that it has been our object throughout, rather to produce a work of lasting utility than to ensure ourselves a widely-spread renown. We have only to speak, it is true, of the fields and of rustic operations; but still, it is upon these that the enjoyment of life so materially depends, and that the ancients conferred the very highest rank in their honours and commendations.

CHAP. 2. (2.)—WHEN THE FIRST WREATHS OF CORN WERE USED AT ROME.

Romulus was the first who established the Arval⁶ priesthood at Rome. This order consisted of the eleven sons of Acca Larentia, his nurse,⁷ together with Romulus himself, who assumed the appellation of the twelfth of the brotherhood. Upon this priesthood he bestowed, as being the most august distinction that he could confer upon it, a wreath of ears of corn, tied together with a white fillet; and this, in fact, was the first chaplet that was ever used at Rome. This dignity is only ended with life itself, and whether in exile or in captivity, it

⁵ This sentiment is not at all akin to the melancholy view which our author takes of mankind at the beginning of B. vii. and in other parts of this work. It is not improbable that his censures here are levelled against some who had endeavoured to impede him in the progress of his work.

^{6 &}quot;Arvorum sacerdotes," the priests of the fields.

⁷ Or foster-mother. It has been suggested that the Rogations of the Roman church may have possibly originated in the Ambarvalia, or ceremonial presided over by the Arval priesthood.

always attends its owner. In those early days, two jugera of land were considered enough for a citizen of Rome, and to none was a larger portion than this allotted. And yet, at the present day, men who but lately were the slaves of the Emperor Nero have been hardly content with pleasure-gardens that occupied the same space as this; while they must have fishponds, forsooth, of still greater extent, and in some instances I might

add, perhaps, kitchens even as well.

Numa first established the custom of offering corn to the gods, and of propitiating them with the salted a cake; he was the first, too, as we learn from Hemina, to parch spelt, from the fact that, when in this state, it is more wholesome as an aliment.9 This method, however, he could only establish one way: by making an enactment, to the effect that spelt is not in a pure state for offering, except when parched. He it was, too, who instituted the Fornacalia, 10 festivals appropriated for the parching of corn, and others, 11 observed with equal solemnity, for the erection and preservation of the "termini," or boundaries of the fields: for these termini, in those days, they particularly regarded as gods; while to other divinities they gave the names of Seia,12 from "sero," "to sow," and of Segesta, from the "segetes," or "crops of standing corn," the statues of which goddesses we still see erected in the Circus. A third divinity it is forbidden by the rules of our religion to name even¹³ beneath a roof. In former days, too, they would not so much as taste the corn when new'v cut, nor yet wine when just made, before the priests had made a libation of the first-fruits.

CHAP. 3. (3.)—THE JUGERUM OF LAND.

That portion of land used to be known as a "jugerum,"

8 Made of salt and the meal or flour of spelt. Salt was the emblem of wisdom, friendship, and other virtues.

- 10 Or Feast of the Furnace or Oven. See Ovid's Fasti, B. ii. l. 5-25.
- Called the Terminalia. See Ovid's Fasti, B. ii. l. 641, et seq.
 Tertullian, De Spect. i. 16, calls this goddess by the name of Sessia.
- 13 Cœlius Rhodiginus, Turnebus, and Vossius, conjecture that the name of this goddess, who might only be named in the field, was Tutelina. Hardouin thinks that it was Segesta, here mentioned.

⁹ This, Fée observes, is not the case with any kind of wheat; with manioc, which has an acrid principle, the process may be necessary, in order to make it fit for food.

which was capable of being ploughed by a single "jugum," or yoke of oxen, in one day; an "actus" 14 being as much as the oxen could plough at a single spell, fairly estimated, without stopping. This last was one hundred and twenty feet in length; and two in length made a jugerum. The most considerable recompense that could be bestowed upon generals and valiant citizens, was the utmost extent of land around which a person could trace a furrow with the plough in a single day. The whole population, too, used to contribute a quarter 15 of a sex-

tarius of spelt, or else half a one, per head.

From agriculture the earliest surnames were derived. Thus, for instance, the name of Pilumnus was given to him who invented the "pilum," or pestle of the bake-house, for pounding corn; that of Piso was derived from "piso," to grind corn; and those of Fabius, Lentulus, and Cicero, from the several varieties 16 of leguminous plants in the cultivation of which respectively these individuals excelled. One individual of the family of the Junii received the name of "Bubulcus," 17 from the skill he displayed in breeding oxen. Among the sacred ceremonials, too, there was nothing that was held more holy than the marriage by confarreation, 18 and the woman just married used to present a cake made of spelt.19 Careless cultivation of the land was in those times an offence that came under the cognizance of the censors; and, as we learn from Cato, 20 when it was said that such and such a man was a good agriculturist or a good husbandman, it was looked upon as the very highest compliment that could be paid him. A man came to be called "locuples," or "rich," from being "loci plenus," or "full of earth." Money, too, received its name of "pecunia," 121 from "pecus," "cattle." At the present

15 Quartarius.

and once Master of the Horse.

¹⁹ Farreum.

¹⁴ Four Roman feet in width, and 120 in length.

^{16 &}quot;Faba," a bean; "Lens," a lentil; and "Cicer," a chick-pea.

17 A "bubus," from "oxen." Caius Junius Bubulcus was twice Consul,

^{18 &}quot;Farreum" was a form of marriage, in which certain words were used, in presence of ten witnesses, and were accompanied by a certain religious ceremony, in which "panis farreus" was employed; hence this form of marriage was called "confarreatio."

²⁰ De Re Rust. Preface. ²¹ See B. xxxiii. c. 13.

day, even, in the registers of the censors, we find set down under the head of "pascua," or "pasture lands," everything from which the public revenues are derived, from the fact that for a long period of time pasture lands were the only sources of the public revenue. Fines, too, were only imposed in the shape of paying so many sheep or so many oxen; and the benevolent spirit of the ancient laws deserves remark, which most considerately enjoined that the magistrate, when he inflicted a penalty, should never impose a fine of an ox before having first condemned the same party to the payment of a sheep.

Those who celebrated the public games in honour of the ox received the name of Bubetii.²² King Servius was the first who impressed upon our copper coin²³ the figures of sheep and oxen. To depasture cattle secretly by night upon the unripe crops on plough lands, or to cut them in that state, was made by the Twelve Tables²⁴ a capital offence in the case of an adult; and it was enacted that the person guilty of it should be hanged, in order to make due reparation to the goddess Ceres, a punishment more severe, even, than that inflicted for murder. If, on the other hand, the offender was not an adult, he was beaten at the discretion of the prætor; a penalty double

the amount of the damage was also exacted.

The various ranks, too, and distinctions in the state had no other origin than the pursuits of agriculture. The rural tribes held the foremost rank, and were composed of those who possessed lands; while those of the city, a place to which it was looked upon as ignominious to be transferred, had the discredit thrown upon them of being an indolent race. Hence it was that these last were only four in number, and received their names from the several parts of the City which they respectively inhabited; being the Suburran, the Palatine, Colline, and Exquiline tribes. Every ninth day 25 the rural tribes used to visit the city for the purpose of marketing, and it was for this reason that it was made illegal to hold the comitia upon

²² St Augustin, De Civ. Dei., mentions a goddess, Bubona, the tutelar divinity of oxen. Nothing seems to be known of these games.

²³ See B. xxxiii. c. 13. Macrobius says that it was Janus.

Table vii. s. 2.

²⁵ On the "Nundinæ," or ninth-day holiday: similar to our market-days. According to our mode of reckoning, it was every eighth day.

the Nundinæ; the object being that the country people might not be called away thereby from the transaction of their busi-In those days repose and sleep were enjoyed upon straw. Even to glory itself, in compliment to corn, the name was given of "adorea." 26

For my own part, I greatly admire 27 the modes of expression employed in our ancient language: thus, for instance, we read in the Commentaries of the Priesthood to the following effect:-"For deriving an augury from the sacrifice of a bitch,28 a day should be set apart before the ear of corn appears from out of the sheath,29 and then again before it enters the sheath."

CHAP. 4.—HOW OFTEN AND ON WHAT OCCASIONS CORN HAS SOLD AT A REMARKABLY LOW PRICE.

The consequence was, that when the Roman manners were such as these, the corn that Italy produced was sufficient for its wants, and it had to be indebted to no province for its food; and not only this, but the price of provisions was incredibly cheap. Manius Marcius, the ædile 30 of the people, was the first who gave corn to the people at the price of one as for the modius. L. Minutius Augurinus, 31 the same who detected, when eleventh tribune of the people, the projects of Spurius Mælius, reduced the price of corn on three market days,32 to one as per modius; for which reason a statue was erected in honour of him, by public subscription, without the Trigeminian Gate.33 T. Seius distributed corn to the people,

26 From "ador," the old name for "spelt:" because corn was the chief reward given to the conqueror, and his temples were graced with a wreath

27 In the first place, it is difficult to see what there is in this passage to admire, or "wonder at," if that is the meaning of "admiror;" and then, besides, it has no connection with the context. The text is probably in a defective state.

28 See c. 69 of this Book.

- . 29 "Vagina." The meaning of this word here has not been exactly ascertained. It has been suggested that the first period alludes to the appearance of the stalk from its sheath of leaves, and the second to the formation of the ear.
 - 31 See B. xxxiv. c. 11. A.u.c. 317. 30 A.U.C. 298.
- 32 Nundinis. 33 On the road to Ostia. It was said to have received its name from the Horatii and Curiatii.

END OF SAMPLE TEXT



The Complete Text can be found on our CD:

Primary Literary Sources For Ancient Literature
which can be purchased on our Website:

www.Brainfly.net

or

by sending \$64.95 in check or money order to:

Brainfly Inc.

5100 Garfield Ave. #46

Sacramento CA 95841-3839

TEACHER'S DISCOUNT:

If you are a **TEACHER** you can take advantage of our teacher's discount. Click on **Teachers Discount** on our website (www.Brainfly.net) or **Send us \$55.95** and we will send you a full copy of **Primary Literary Sources For Ancient Literature AND our 5000 Classics CD** (a collection of over 5000 classic works of literature in electronic format (.txt)) plus our Wholesale price list.

If you have any suggestions such as books you would like to see added to the collection or if you would like our wholesale prices list please send us an email to:

webcomments@brainfly.net