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## The Park Grass Plots at Rothamsted 1856 -1949

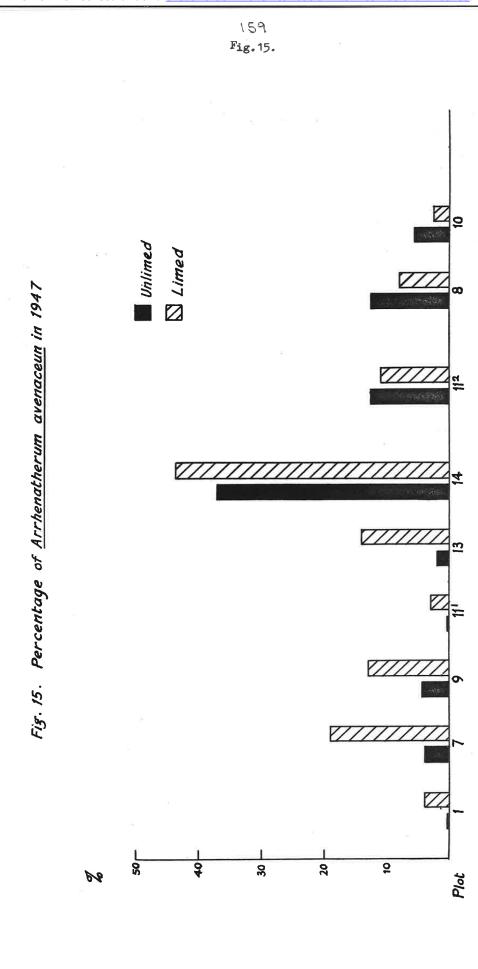


Full Table of Content

## **Tables**

## **Rothamsted Research**

Rothamsted Research (1958) *Tables*; The Park Grass Plots At Rothamsted 1856 -1949, pp 159 - 174 - **DOI:** https://doi.org/10.23637/ERADOC-1-154



160

Fig. 16.

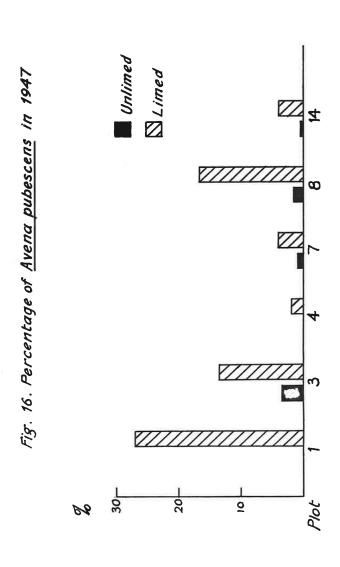
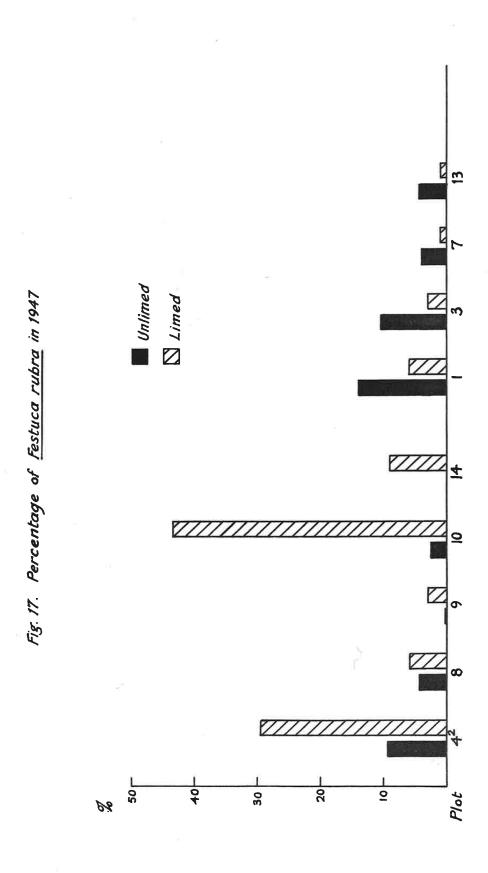
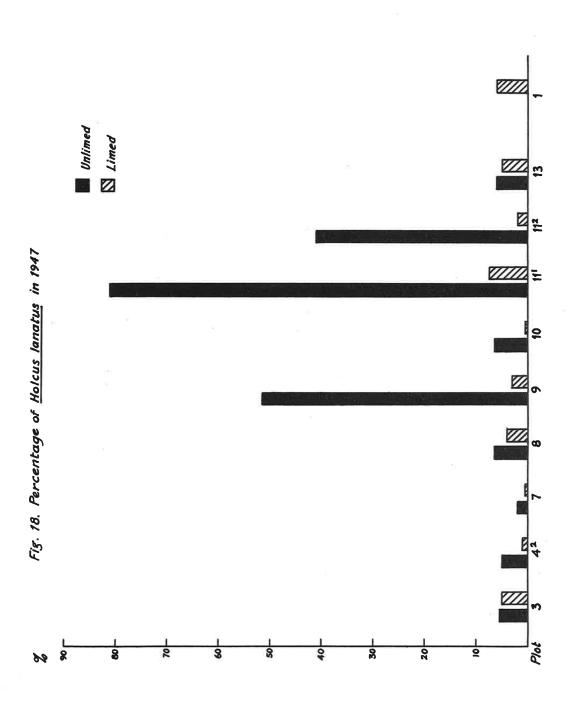




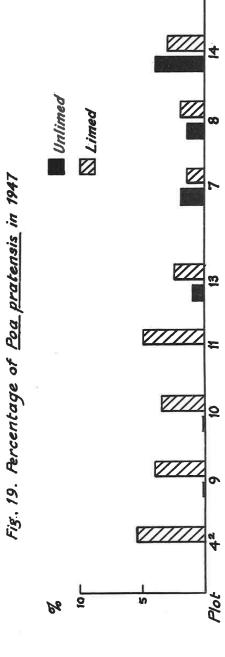
Fig. 17.





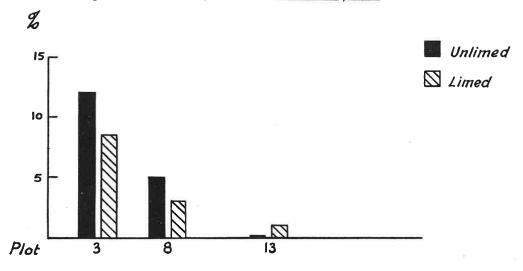






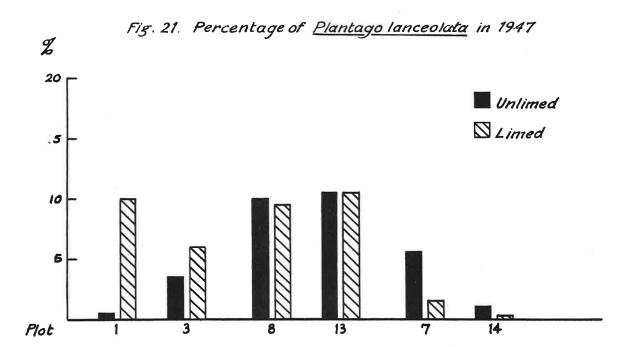
164 Fig.20.

Fig. 20. Percentage of Leontodon hispidus in 1947

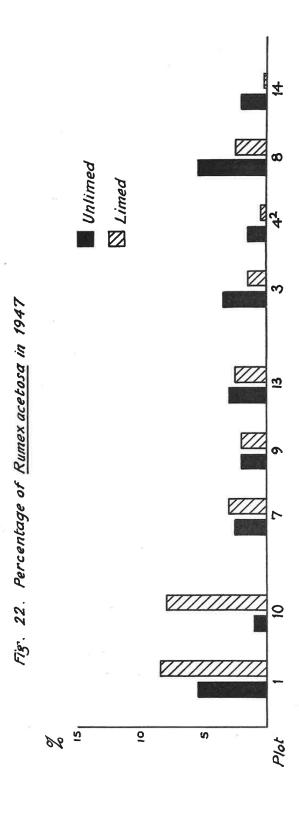


165

Fig.21.







						-B	11 plots y on all unlimed									
						TABLE	Manures - all plots Yield of hay on all									
			*6061-9061	Cwts.	9.5	23.52	29.1	19.7	13.8	28.6	51.0	25.8	4.	6.6	29.5	
	· ·		·5p-9£61	Cuts.	7.1 8.6 8.6 12.2 12.8	126.235	34.6	19.3	42.4	32.1	48.0	7.4	17.3	10.3	26.1	
or Nine	and or		·\$£-926ī	Cuts.	113.5	18.7	42.2		13.6	42.2	53.5	25.0	21.3		37.6	
over ti	-1945, st Cro	13	•Gz-9161	Cwts.	19.7	28.4	35.2		50.9	41.2	54.9			23.4	30.6	
Aore	. 1856	i.	·51-9061	Cuts.	18.9	29.5	36.8		14.0	32. P	47.7		25.7	29. 62 6. 62	8 5 5	
ay per	Successive 10 year Periods, 1895-1945, and over the 4-year Period, 1946-49. First Grops only.	8	·\$061-9681	Cuts.	113.53	Ø. 25.5.	44.1		27.1	47.80	50.0		28.9	£ €	% 67.	9127
e of H	year F	Averages	·46-988T	Cwts.	23.8 116.5 17.5	29.0			62.0	49.1		37.4			43.6	
Produc	lve 10		·48-948T	Cwts.	30.1 17.5 17.5 17.6	30.5			18.0	54.2		41.5	30.1	25.5	38.7	
or age	1000881 10 4-ye	H	·61-9981	Cuts.	37.8 22.1 22.1 22.1 22.1	36.8	48.4	39.6	61.7	9.16	60.5	47.6	33.5		. 6	£ 4
Ay	on 4		·69-9881	Cwts.	48.4 22.6 39.6 39.6	4.5%	53.6	52.8	25.1	55.1	53.10	48.10	ž.			1 200
			Plot		-0 w44 v2	2000	6	101	112	13	14	2 91	17	18	20 20	
	Organio Liemres		Flah onau0	. Cart.			1			9	-					
100	6.3	8.1	shoe to	Ton	11111				9.	14		No.	-		4 4	<b>600</b> 0
la.			Silicate	, Lb.		1000			100 400		- 001					
TABLE	lemres	1	Sulphate to soda Sulphate Sulphate Taganasia	пр. пр		10001			1000		1001			001		
	0 Miles	13	Sulphate of Potash	Lb. 1		2009			200		500			28	1001	~~~
	Mineral		Superphosphate	Ort.	11188 1	www. www.	3.5	3.5	3.5		3.5	3.5			1.8	only, 1859-65 " 1862-65 " 1858-65
	Nitro- genous	-	ebealing show to	rp.					11		550	275			168	only.
	MA C		mulriomiA eledqius	-d	220 - 1 - 44 - 1	1111	440	440	099		•		100	440		years = = =
100					neruire,		. 1		in four	inerals	soda,		and hay,		te of	1 2 4 6 4
Acre.					56-63) 86 lbs	potest 5 -68)	salta	nontum	once	raw, m	te of	pos Jo	e, and nerals ton of	fter	sulpha of sod rphospl	
ire per			un.e		re, 18	ate of = Ploi e, 1856	montum	tra am	la gach	eat st	nitra	trate	ter mi	rear (a	trate r supe	
of Mam	100	100	of Me		d menu dim sa r ammo	eulph 856-97 m salt	and am potash	and ex	of soda	out wh	(efter	and ni	s. N. superpl N (ad Ltuents	ourth y	ourth ourth 1872-1	17
Quantity of Mamure per Acre.			Description of Manure		45 lbs farmyan lime 1 cemor	sphate, alts, l mmoniu	nanure 1thout	M. manure	licate	(after s)	manure	manure	thout 86 lbs	very f	very f phate, ir year tash,	
Gua			Desci	No.	Ammonium saits = 45 lbs.N (with farmward manner, 1856-65) Unmarned (after farmyard menure, 1856-65) Unmarned (after farmyard menure, 1856-65) Superphosphate of lime Superphosphate and ammonium saits = 86 lbs. M (N.half Unmarned (after ammonium saits.)	(Aibalf Superphosphate, sulphtate of potash (after ammontum salts, 1856-97 = Ptot 5) As plot 7 (after ammontum salts, 1856-68) Complete anthoral manure Mineral manure without potash	Complete mineral manure and ammonium salts = 86 lbs. N. Mineral manure (without potash) and ammonium	salts * 86 lbs. N. Complete mineral manure and extra ammonium	As plot 11 and silicate of Unmanured Manure and Clah on	years since 1905 (after out wheat straw, minerals, and amnonium salts)	Gomplete mineral manure (efter nitrate of Soda,	Complete mineral manure and nitrate of soda = 43 lbs. N.	Mitrate of soda = 43 lbs. N. Mitrate of soda = 43 lbs. N. ammonium salts = 86 lbs. N (after mierals nitrogen equal to constituents of 1 ton of	anure	nature of sout, 10(x-1) year; sulphate of potani, superprosphate and naturate of soda = 26 lbs. N in other years (after superphosphate and naturate of potani, 1872-1904)	
		The state of the s			-63) mred nured phosph phosph phosph ilf) Un	er ammo lot 7 ( lete mi	lete mi lbs. N.	lete mi	As plot 11 Unmanured	s since	lete a	lete m	ral man	rphospi	yard m sh, suj bs. N i	
					Ammonium 1856-63) Unmarured Unmarured Superphos Superphos (N.half)	(S.hk (arte As pl Compl	Comp. 86 1	Comp	As p. Unmar	year	000	Comp	Nitr Mine armo nitr	Parm Supe	Farm Pota 26 1	130
1			Plot		1 2 2 4 4 7 0	r 910	9 01	111	212		15	16	17	13	20	

168

TABLE 1 b.

Plot	limi (Burn Begun in	gular ing 1  t lime)  Amount per acre every	pH Plots 1-17 Plots 18-20 Unlimed	in 1945	over two suc 1926 - 45 an 1946 - 9. F dry matter,	duce of hay per cessive 10 - yed d over the 4 - yer irst crop only,	ear periods year period cwt at 85%
	Year	4th year	l		1926 - 35	1936 - 45	1946 - 49
1 2 3 4-1 4-2 5-1 5-2 6 7 8 9 10 11-1 11-2 12 13 14 15 16 17	1903 1903 1903 1903 1903 1903 1903 1903	2000 lb  2000 lb  2000 lb  2000 lb  11  11  2000 lb  11  11  11  11  2000 lb  11  12  20 cwt	4.5 5.5 5.5 5.5 5.0 4.5 5.0 4.5 5.0 4.0 4.0 4.0 4.0 5.0 6.0 6.0 6.0 6.0 6.0	7.0 7.0 7.0 7.0 7.0 5.5 7.0 5.0 5.0 5.0 5.0 5.5 7.0 6.5 7.0 8.0 7.5 6	17.2 12.8 10.6 11.8 30.7 - 31.0 13.4 50.6 51.9 53.4 - 36.0 46.9 23.8 30.4 22.7 38.0 30.2	13. 6 9. 0 8. 7 10. 0 24. 2 30. 4 12. 2 38. 0 30. 6 45. 4 47. 3 26. 4 38. 5 21. 7 29. 5 17. 7 29. 5	16.9 13.4 12.7 15.3 24.2 33.0 13.6 32.7 24.9 45.1 45.8 29.6 23.4 31.1 19.7 22.6
19	1920	28 cwt 5 cwt	5.5	7.6 6.5	21.5 24.1	22.0 23.3	24.6 26.2
20	1920 1920	25 cwt 5 cwt	5.7	7.6 6.5	33.3 35.1	27. 6 29. 7	35.3 32.4

TABLE 1b. Liming, soil pH and yield of hay on limed plots

<sup>1 1911</sup> omitted. 1919 dressing not given until 1920 and amount increased by  $\frac{1}{4}$  to allow for the extra year.

								TAREE 2	Rotanical analyse	Plots 3, 12, (2, 51) Unmenured <= less than 0.05				
	1856-1897.			1949	01	17.8 0.7 0.3 0.5 0.5 0.5 0.5 0.7 0.7	82.2		1		3,1		1	2.
	Salts, 18			1)26	10	23.6 0.55 0.05 4.9 4.9 4.9 1.2	80.7		3	00.2	7.0	111	11	0.000 1.000
	Ammonium Se	51	UNLTARED	1919	10	4.5.7 111.77 111.77 111.77 11.74 10.05 10.	76.7		1	4. 1	0.4		3	0.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	After Amm		8	1914	п	7.7. 0.01 0.4.3 0.5.5 0.5 0	86.3		3	0.0	0.5	1.00	17	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	AF			1903	13	11 × 22 × × × × × × × × × × × × × × × ×			0	.,,,	0		^	14.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				1949	13	7. 1.40.2.4.5.4.7.7.7.7.4.0.4.0.4.1.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	1 2	200	4	4.0.40	17.8	1.0	07	0.00 1 1 0.00 1 1 1 1 1 0 0 0 0 0 0 0 0
	63.		LIMED	1919	114				4	0.00.00	5.6	7.4		4.4.4.6.2.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9
	After P.T.M., 1856-1863			1914	33	6.1.1.0.445 . %.c.1.0.0			4	2.2 2.1 6.0 1	7.4	10	-	41.00 000 000 000 000 000 000 000 000 000
	.T.M.,			9 1949	12	10.0 10.0	1		4	9.6.60	15.6	31		6. 10.00 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
MANURE,	After P		UNLIMED	1919	57	2.1.4.2.001 2.1.4.4.4.001 2.1.4.4.001 2.1.4.4.001 2.1.4.4.001 2.1.4.4.001 2.1.4.4.4.001 2.1.4.4.4.001 2.1.4.4.001	10000		3	2.78	4.3	15	-	\$ 0.00 1.1. 1.4. 1.000.44. 1.5. 1.0. 1.00. 1.4. 1.4. 1.4. 1.4. 1.4. 1.
Jan 3				1914	2.53	8 1 14.4.0.4.4.4. 0.4.7.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	9.09		4	0.7 3.8 1.0	5.6	1.1		0.00 10 1 1 1 1 0.00005 1 1 0.0 1 1 0.000
ON				1949	12	7.7 6.0 7.4 7.6 7.0 7.0 7.0 7.0 8.8 8.1 8.2 8.3 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	58.4		4	1.7.40	13.5	20		7
		12	UNLIMED	1919	12	8 77.40.00 400 400 1	Z.9		3	1.7	5.3	15	2	200000000000000000000000000000000000000
				1914	14	2 401000 A4E 400000	69.2		4	0.4.2 0.5.1.4	7.3	22		0.00. 1 A. 1.0. 00001 . A. 0.0. A. 0.0. AA. 0.0.
				1948	12	8.0 2.7.0 2.1.1.1.1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2	75-7		4	100	16.1	16		5.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
				1936	13	v v 0004 H 000 V V V V V V V V V V V V V V V V V	47.1		4	1	16.2	16		2 8
		N.	А	1926	14		61.8		4	1.5	7.7	22	1	7 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	. 1856.		CDARD	1919	12	7 0 1 0 8 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	59.1	1	3	1.8	5.5	15	6	%
	Since	3		1914	12	2.9 111 111 111 114 115 115 116 116 116 116 116 116 116 116			3	5.55	8.5	18		1,000 10,1
				1948	7	15.6 0.77 0.01 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03	0.53.0	No.	4	0.00	6 7.3	21		2 . 0.0 . 1 . 0.0
				9661	12	14.2 1.1.2 1.1.0 1.1.0 1.1.0 1.1.0	1 45.0		4	5 6.7	1 9.6	20	29	1 11 18 & Priores and 144 11 14 11 11 11 11 11 11 11 11 11 11
				1926	12	£ 6.1 6.1. 6.1. 6.2. 6.2. 6.3. 6.3. 6.3. 6.3. 6.3. 6.3	7 49.4	3	4	1.5.0	6 6.1	23	3	4 7 8 7 7 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			UNLIMED	1919	12	4 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	7.74 6		3	2.1.6	2 4.6	21		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
				3 1914	13	1.00.000.44 .00.000.44 .00.000.44 .00.000.44 .00.000.44	6.96		4	0.000 0.000	6 6.2	22	1	
				1903	13	5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	Total 52.3		4	3.6	Total 7.6	7%	3	# 1.00
	Mainting	Plot mumber	Unlimed or Limed	Serron	Number of species	1. Agrostis vulgeris 2. Attra casapitosas 3. Alopeourus protensis 6. Antinozantus protensis 7. Area casapitosas 9. Area protessora 10. Gorgus solitas 10. Gorgus solitas 10. Gorgus solitas 11. Restues protessas 12. Restues protessas 13. Restues protessas 14. Holous aleatus 15. Postues protessas 16. Pos preferents 17. Postus preferent 17. Postus preferent 17. Son preferent 17. Son preferent 17. Son preferent 17. Son preferent 18. Son preferent 17. Son preferent 18. Son preferent		LEGUMINOSAE	Number of Species	1. Lathyrus pratenals 2. Lotus conviolatus 4. Trifollus pratenae 5. Trifollus repene		MISCELIANEOUS	Number of Species	1 & 2. Manupoults acris of bulboau  4. Corestium vilgetum  5. Stellatis granions  6. Linum achteritoum  7. Agricolis approfits  8. Adrhemilis volgaris  10. Potentim suppidoris  11. Potentim suppidoris  12. Spiras almaris  13. Spiras almaris  14. Compodium apporatium  15. Pippinella satitrage  16. Pippinella satitrage  17. Spiras almaris  20. Spiras almaris  21. Spiras almaris  22. Haydralis satitrage  23. Haydralis satitrage  24. Compodium readous  25. Haydralis satitrage  26. Francascous volgers  27. Tragogogon proferms  28. Heraconous volgers  29. Primalis volgers  29. Primalis volgers  20. Hardradous volgers  20. Hardradous volgers  21. Tragogogon proferms  22. Hardradous volgers  23. Francascous  24. Lennical volgers  25. Hardradous volgers  26. Tragogom volgers  27. Tragogogon proferms  28. Hardradous  29. Juniala cappoure  20. Landa cappoure  20. Landa cappoure

									TABLE 3  Botanical analyses  Plots 6, 7, 8, 15, Minoral coll.	Out 6-11	<= less than 0.05		
					12			-	13.4	32.7	1:		20
		58-1875	LIMED	1201 1021	1 1	13.6 3.6 0.25 0.8 0.25 0.8 0.25 0.8 1.5 0.2 1.5 0.2 1.6 6.6 1.7 1.6 1.6 0.3 1.6 0.3	69.5 58.1	3	11.2 13.8 2.6 6.0 4.6 6.6	16.4 26.4	1	100	23. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
		COMPLETE after Mitrate of Soda 19 years, 1858-1875		1949	++	19.5 1.7 1.7 1.1 1.1 1.1 1.4 1.4	42.2 6	4	22.3	27.7	,		3.7
		Sode 18 ,	4	1973	1 1	16.8 10.6 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8	78.8	~	0.9	9.1	:		1.00
		trate of	OMC,	19 1923	11	11.4 13.1 13.1 13.1 13.1 13.1 13.1 13.1	.5 97.8	2 3	5.3 15.1 0.1 0.1 - 0.3	5.4 15.4		1	25. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
		after Mi	CUMELTO	1914 1919	11	11. 11. 12. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13	59.5 69.5	4	28.0 5	33.1 5	E (0		2000 20
		COMPLETE		1903	11	0.4 .0.1.4.0.40.7.4	49.9	2	5.8 6.7 0.2	29.0			141111411212000000000000000000000000000
		Amontum 1856-1868		1949	11	2.5 6.1 6.1 7.1 7.1 7.1	57.7	5	8	31.3			1111111140,0482,10005,1114,011, 0
		ter Amo	03	1919	11	6	1 57.2	4	91.00	4 11.5			100 100 100 100 100 100 100 100 100 100
	r 11me	COMPLETE after A	UNIC THEE	1903 1914	.11	2. 0.111.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	35.6 63.1	5	30.9 17.5 2.3 1.6 5.9 5.2 1.7 0.1	40.8 24.4	-		\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
<b>1</b> 200	le odehque	0 8		1948	-	7. 7.4.2.2.5. '8.4.2.1. '19.	53.4 35	4	The state of the s	11.1	725		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
MICHOLE OF SPECIES	and Superphosphate	1991		1935		1, 40 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 0 0	62.8	6	100 mm	6.7			200.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
SS AND GR	sulphates and	yeare 1896-1861	TUE	1	11	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	59.0	-	20 10 7 10	8.1		-	1110
	aulph	6 ye	8	1914	15	v, ''		1	- VOR	9.6			19.0
S 3 .	Megnostu	ofter COMM.ETE		100	14			4	0.3 0.6 4.4 3.3 6.5 2.7 0.1 0.7	3 7.3	100		. 22
TABLE ? .	Sodius and	SH after		1	13 11	9 270244 89 2212	100	7	24.0V	10.5 11.3		1 13	1.00
SPECIES AND	seium, Sc	TOUT POTASH	UNICTIED	101		Ø 4011080100 0410E		4	4044	10.7	- 31		2, 100 100 100 100 100 100 100 100 100 10
0	HE . Pota	TUOHLL			1905		100	4	7.23.14 7.44.1	18.6		-	175 . A . 2 . 2 . 204 yr 2 . 22 . 22 . 22 . 22 . 25
MUMBER	KINERAL MANURE				140		1	4	-	.5 25.3			3 · · · · · · · · · · · · · · · · · · ·
	MIXED MINE		1		5 12	ם מחממו	75.2 58.6		1,1 23.6	1.1 31.5	100		23.6
			TAKE	3	1919 1929	0 00000 0 04 0 00	7 1.64		5	19.5			2.5
		Bou		1	1914 1	w 8000w 0 ww w wood		-	15.9	19.7			7
		% and winor		-7	1348		5 46.7	u.	100	6 19.9	_	983J. U	2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
		COMPLETE 1856			1925 1935	ם ממממח מה ה. ס.				6.3 37.6	WILL THE	900310	6 1 1 1 1 1 1 2 1 2 1 1 2 1 1 2 1 1 1 1
	100	CO	The Them		1919 192	4 19116 1 91 . 0. 04	1.		4004 4	8.8		14	6.1.00 6.1.00
					1914 1	0 Fundo 4 unuaduário			7.00	17.0	1	1000	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
					1903	v .444.04.00.00.00.00.00.00.00.00.00.00.00	41,78		0.82	33.1	10	16	23. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
						An and an and an	Total			Total			ob bulbon of bulbon of bulbon of the state o
						to special and a second and a second a			r of specters Lathyrus pratenals Lotus corniculatus Trifolius pratense T. repens T. minus T. minus				Against a state of bull  Orestine wilgetam  Orestine wilgetam  Orestine wilgetam  Orestine wilgetam  Orestine are propored  Orestine a state of
	13		oer.	poer Lined	Sea Bon GRANINEAE	Agrowtis Markon and Ma	Stalks	LEGUNTHOSAE	Lethyrus Lotus oor Trifolius T. repens T. minus		ANEOUS	of species	47007444074044
		Menuring	Plot maber	Unitmed or Limed	Sea Bon GRANTIFEAE		18	LEDUNCOR	194 v. 0, 5		MISCELLANEOUS	Number of	- 44~~~34444444455388888888888

					The state of the s	TABLE 4 Botanical analyses Plots 52 & 41 Minerals Plots 14, 16, 17 Nitrate of soda + minerals <= less than 0.05
			TORRE	d firm Strade Son Strade Sun Spade	10 12 9 12 10	3       3
		emure. = 86 1b, F.	14 14 14 14 14 14 14 14 14 14 14 14 14 1	1,1200 1923 1935 1941 1948 1923	11 9 10 9 10	1
	NITRATE OF SCOA.	With Mixed Mineral No.	16 K.	1949 1919 1949 1903		1     1
TANK 4. Of More epocies and Group of Species.		no . v.	17	1 1040 1071 1983 1949 1919	100 110 100 100	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
MODER OF SECURE AND PERCENTAGE		Alono			19 1949 1903 1914 1919 1923	######################################
	SUPERPIOSPHATE	Alono, 18% and alme.	r'a	COLLA	מולני לאלי לילוי שילי לאלי	2. A 22 A 22 E E E E E E E E E E E E E E E
	MIXED MIRERAL MANURE	After Aumonium Salts 42 years, 1656-1897.	25	COULING SEPT. SEPT.		### ### ### ### ### ### ### ### ### ##
		Mary of the	Flot Romber	United or thred	Chartere	Topical a vigiliar and a vigiliar an

											17:	3	TABLE 6a	Botanical analyses Plots 1, 42, 18 Ammonium salts with or without	minerals.	< = less than 0.05							
				E	1948	11	1.2	3.8	2.2	0.1	0.1	82.9	2 0	0.1	10.25								_
		+ 50		VY LIME	1928	10	4.8	22.7	37.7	1.6	0.1	94.4	1 0 0			-							18
		Mineral		HEAVY	1923	00	-		9.7	N.		87.5	0			- 1	0.1		_	VIE CA		CIVE CO	1
		r; after -1904.		dE	1948	14	200	24.6			F - 20	80	-	0, 1	0.1		0.1						2 19.0
		out Supers, 1865	18	LIGHT LIME	1928	11		45.6 0.5 0.5 0.5 0.5			-	96											4
		40 year		1	8 1923	6		1 10.3 8 2.2 5 2.0 0.1	-		-	86					. 1	W.	45.00	~	1000	27	. 5 14.
		with Mixed Minerals without Super; after Minerals Nitrogen, 40 years, 1865-1904.		D	1948	10 6	13	5.3 0.1 6.9 0.8 0.4 0.5			300	2 88.5		1111									3.7 11.
		ith Mixe		UNLIMED	1928	8 1					3	96.8 96.3		AT 1								2.5	3.1
CIES		=86 1b N w			1919 1923	10	100	0.1 5.1 5.1 3.5 19.8 1.6 0.1			57000				16								31.1
OF SPE		8 2			1914 19	=	18	3.3 3.6 3.6 3.6 0.1			1.00	93.4 69	1	0.1			ligeria						
GROUP	SALTS				1949 1		2.2			200		23	0		,	200							12
ES AND	M	Superphosphate		LIMED	1919	1		76.1				98	0	1111		100							
H SPECI	AMMONIUM	Superp	42		1914			42.7.				36		1111					1	-		CV	27
sa OF EAC	AA	M. W. Wdth		0	19 1949		4.3 36.	1.4 0,7 34.1 10.0 3.1				250		1									
TABLE 6a		1 26 1		UNLIMED	1914 1919		10 4		1.0		0.1	98.7 9	0	1712									
PERCE		1			1903		2.0		0.1	1.1	0.2	93. 6	-	1117						. (-)		0.5	6.3
ES AND		63			1948		1.5					63.3	6	9,40	4,6	13	0.0					7 2.1	5 32.1
SPECI		1856-63	0001 911	LIMED	1919 1939		5 3.7	1000			8 0.2	8 83.6		0.4 1.5	0.7 2.1		2.1 1.1 0.2 0.2 0.2 0.2 0.2	.1 0.1	7 1.1		1 8 1	1.5 1.7 0.1 0.1	21.8 14.5
TABLE 6a NUMBER OF SPECIES AND PERCENTAGE OF EACH SPECIES AND GROUP OF SPECIES		0	ank o IN	13	100		10				3.9 1.8	72.6 77.8		0.5	0.7 0		1.3 2 0.8 0 0.1 0						27.1 2
NON		>	-	-	48 1914	-	6 12 3	0.1 4. 0.2 6.0 6.0		-		94.6 72	0	1111	1	5	1.9	-	100	No. of London		2,5	5.3
		1	= 43 lb N; also F	TED	1939 1948				0.7 3		0.2	95, 2 94	0	1, 1, 1, 1	i	4			2,1			2.0	4.7
			Alone = 43	UNLIMED	1919 19	131	10				6.0	86.4 9	0			2		1.2	0.2			9.9	13.6
			V		1914 1			15.0			0.6	1 4	0			1-	0.11111	0.2	0.5			0.6	21.1
									11.0			Total			Total		snsoc	151					Total
			30					Agrostis vulgaris Aira erespitosa Alopecurus pratorisis Anchoxanthum odoratum Arrhenelherum averaceum Aven flavescens	atus nta	is		To		isis tus nse		The state of	Rammeulus acris et bulbosus Cerastium vulgatum Stellaria gramme Stellaria ndostea Potentilla repans Spivaes utnaria	estris nudatum mdylium fraga	sis	dicata idus	I araxicum vagure Tragopogon pratensis Plantago lanceolata Veronica chamaedrys Aluga reptans	ris ris	
		-			9		5.2	Agrostis vulgaris Aira caespitosa Alopecurus prater Anthoxanthum odo Arribenetherum a	ubescent mollis us crist glomer	pratens	tensis rialis pratense		sa	Lathyrus pratensis Lotus corniculatus Trifolium pratense Trifolium renens		sə	ulus acri tum vulg a gramil a holost ila repta ulmaria	dium der dium sph	a arventa millefe	aeris ra lon hispl	cum von sogon pra to lancec ca chama	la vulgan acetosa dioica campesi	praecox
			5	ber	Unlissed or Limed Season	EAE	Number of species	Agrosti Aira ca Alopecu Anthoxa Arrhene Avena fi	Avena p Bromus Cynosu Dactvlis	Festuca	Poa triv Poa triv Phleum	TECHNISTINGSAF	Number of species	Lathyra Lotus e Trifoliu	SHOANVIIIAOOM	of species	Ranunc Cerast Stellar Stellar Potenti Spiraea	Conopo Herach Pinnin	Scabios Achille	Hypoch Leonton Senecic	Tragop Plantag Veronii	Prunel Rumes Urtica Luzula	Carex
			Mansaring	Plot number	Unlimed	GRAMINEAE	per	ಗರುಳಕ್ತಿತ				The Local	umber	1:2:4:0	TOOL	Number	1. 2. 5. 5a. 10.						8

										17		TABLE 5D. Botanical	analyses. Plots 13, 19, 20		<= less than 0.05.	
	da	104	IMIE	1948	13	17.6				t-		-8	8 8 6 6		- 1	1
	ate of So	1817-13	HEAVY LIME	1928		24.1				1 3		1	5.1	100		2 2
	and Nitre	years,	H	8 1923		5 5.3	-		-			+	2.1			100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Potash and Nitrate of Soda	soua, 33	LIME	28 1948	201	4, 2 2.5 30, 6 21.9 6, 4 1.9				180		1	1.8	181	48	114 0.00 0
	phate of	trate of	LIGHT LIME	1923 1928	12 1	12.7 4 16.9 30 5.7 6				100	- 3		9.9			6.9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	per, Sul	r and ivi	-	1948 19	_	-	-	_	0 11 1				0.1	-	+	8 11 1 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
	with Su	er supe		1928 1	910				1.2	4 4		C3 .	2.6	2.8	=	2, A · · · · · · · · · · · · · · · · · ·
	th year,	ears, an	IMED	1923	13	29.4				4 51		m .	2,43	4.6	11	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ery fourth year, with Super, Sulphate of	other y	CNLIMEI	1919	14	6.6 30.3 1.1	10.2	12.5	1.000.	0,1		- !	 F-	4.7	14	4 L 000
ECTES,	Eve	Ħ		1914	14	4.5	6.3	22.2	10,4	1.1		en :	0,10	6,6		11 0.0.1 11 1.0.0.1 1.
P OF SP			IME	1948	12								1.1 0.5 0.7			8 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
GROUI	th.		HEAVY LIME	1928	13	No.			0. A + 0. 1			-38	5 1.0	1	15	41 10 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0
OF EACH SPECIES AND GROUP OF SPECIES AD MANURE	of Potash	1904	H	1923		3 10.3 1 14.6 1.3	1000	100000	I Section 1	-			7.4 15.5 0.1 0.5 1.0 0.9	100		11.12 10.13 10
TH SPEC	Sulphate	1872 -	LIME	1928 1948	136	5.1 4.3 42.6 25.1 7.9 1.5				- 1			1.5 7. 0.5 1.		9 8	13.5 7.7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
OF EACH S		33 years	LIGHT LIME	1923 19	14 1	4 200			2.1	OHO.			9.3	610		110 110 11,2 10,3 10,3 10,3 10,3 10,3 10,3 10,3 10,3
PERCENTAGE OF FARMYARD	1 5	Jo		1949 1	12	11.8	-	-		==	100	200	13.5	-	+	2 2 2 2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4
D PERC	ery fourth yea	Nitrate		1928	12	8 200					0.015		1.6	- 15	13	8 40 A
CIES AND	Every fo	and	UNLIMED	1923	12	14.3	1.9	13.3	3.4	78.6	·	03	7.3	7.4	13	80 4000 1 400 1 1 1 0 0 0 0 0 1 1 4 1 0 1 4 1 0 1 1 1 1
OF SPEC			UNI	1919	13	22.3	0.33	15.8	1,000.4	75.0		5	0.1	E	12	40 A
NUMBER OF SPECIES				8 1914	14				8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			min make	9 . 4 E	-	-	2 1 1 2 1 1 2 1 1 3 1 1 1 2 1 1 3 1 1 1 1
7.	after cut	845-1904		44 1948	12				1.7 4.4	-	1		30.9 0.2 7.3 2.6 0.3			20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	rnately.	salts, 1	LIMED	1919 1944	11 9	A VOICE AND A SECOND			3.9				0.8 30	_	100	11
	nano alte	montum	1	1914 1	10	1			14.4				6	6.0	10	0.000000000000000000000000000000000000
	Fish G	wheat straw, minerals and annionium salts, 1845-1904	13	1948	G		district to		0.9		70	2	0.5	0.5	12	20 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	in with	mineral	GSUMI, IND	4 5750	13				1. ° ° 1. ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	1000		1	0.3	0.3	13	81 .00
	Atmos	straw,	UNI	1919	=	11,0			1.7			13		0.1	00	8 1 1
	3	wheat		1914	Ç	11.8	0.1	7.6	14, 6 0, 8 0, 1	96.5		-	0.5	0.5	10	3 11.1 1.1 2.1 1.2 2.1 1.1 1.1 1.1 1.1 1.
				1			enm			Total				Total		ilbosus m
		1		100		aris sa atensis odoratun	m avenac ens ens	derata nerata nsis	Holcus lanatus Lollum peremie Poa pratensis Poa trivialis Pileum pratense	1	14		tensis platus tense			Renunculus acris et tulboaus creas tun vugatun Scilaria grandiaa Scilaria grandiaa Scilaria grandiaa Scilaria grandiaa Scilaria grandiaa spiraca ulmana spir
	1	NA PARTY NA		name		stis vulg caespitoi ecurus pr	enatheru a flavesc a pubescu nus molli	ylis glom ica rubra	us lanatu ini peren. pratensis rivialis	S	1E	ecies	Lathyrus pratensis Lotus corniculatus Trifollum pratense Trifollum repens	0.000	ectes	secies menulus a stilum vu aria apou ratia holo ratilla rop aria apou ratia holo ratilla rop ration so rat
		guşan	Plot number	Season	GRAMINAE	1. Agrostis v 2. Aira caes 3. Alopecuru 4. Anthoxant	Arrh Aven Aven Bron	Cyno Dacty Festu	Holen Lolin Poa I Poa t	Stalk	LEGUMINOSAE	Number of species	Lath: Lotus Trifo		WISCELLANEOUS	Number of spectes  The state of
Tolly !		Manuring	Plot a	Season	GRAS	100 H	က်မင်းခံ	12.5	15.		LEGI	Numb	ನನಕನ		Number	44.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0