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## The Park Grass Plots at Rothamsted 1856 -1949

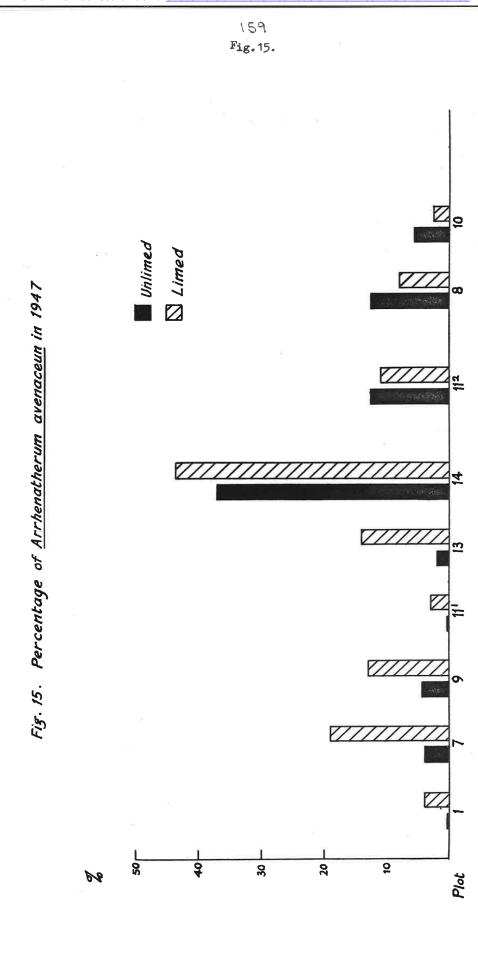


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## **Tables**

## **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



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Fig. 16.

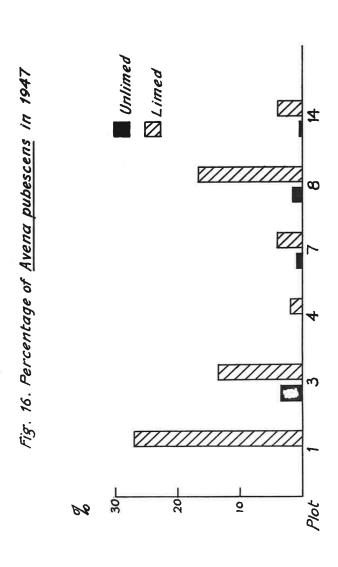
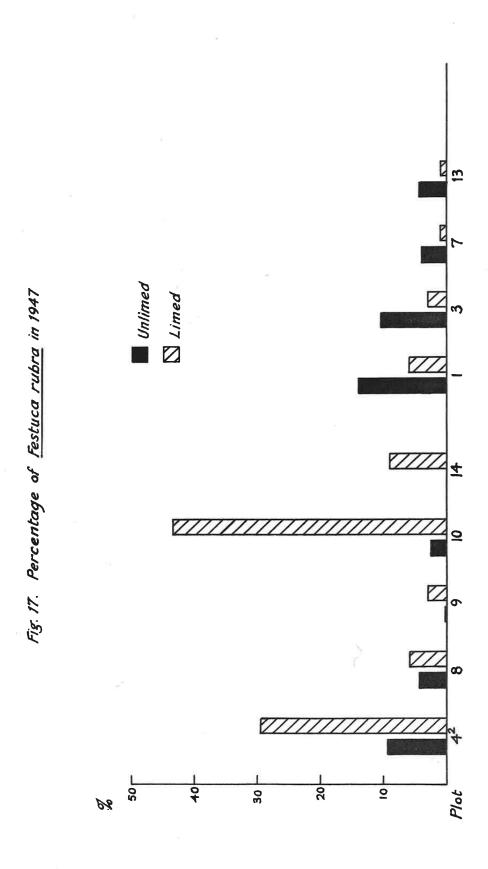




Fig. 17.





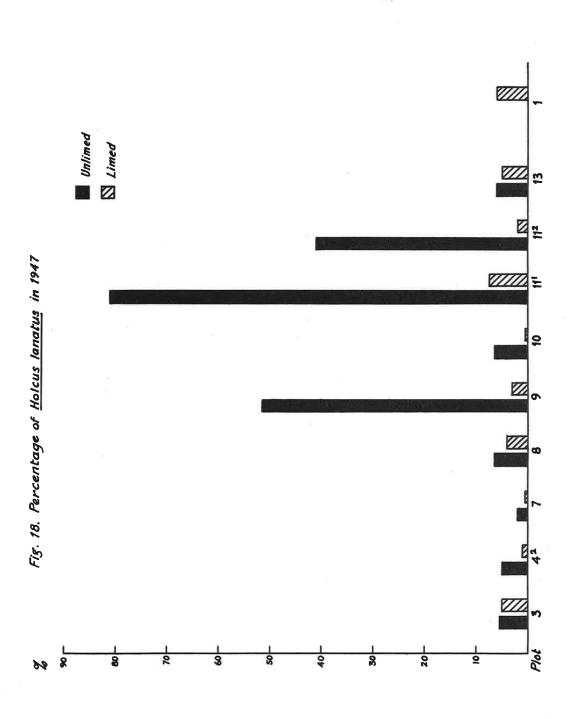
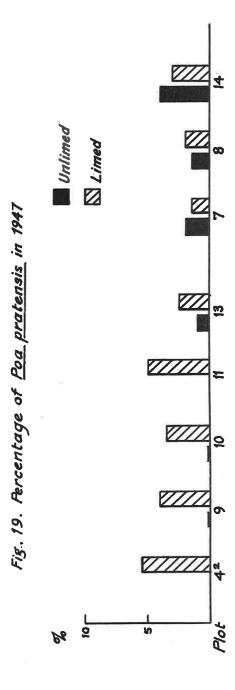


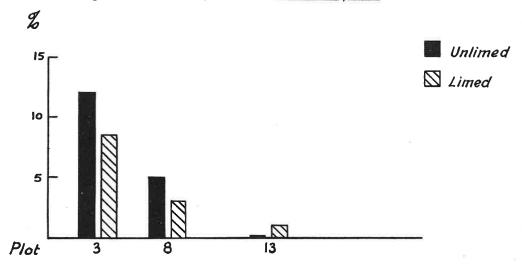


Fig. 19.



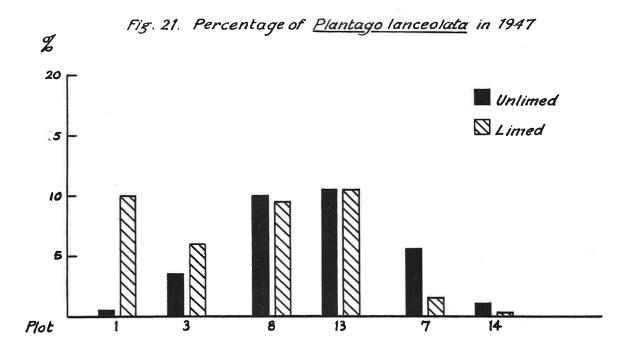
164 Fig.20.

Fig. 20. Percentage of Leontodon hispidus in 1947

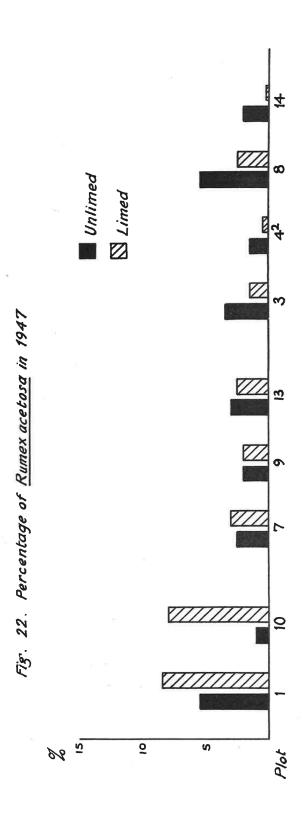


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Fig.21.







										unlimed plots												
									<u>n</u>	Manures - all plots Yield of hay on all												
									TABLE	res - al												
																		1				
				*6661-9661	Cwts		17.8	9.3	29.5					28.6	51.0	23.8	35.8		6.6	29.5	39.1	
	over 1			·54-9£61	Carte	7.1	12.2	7.9	26.2	24.6	19.3	30.3	11.2	32.1	48.0	17.4	30.9		10.3	26.1	33.5	
	and on			1926-35.	Cwts.	13.5	16.4	11.0	24.9	18.2	24.1	45.8	13.6	42.2	53.5	25.6	26.9		20.2	26.2	37.6	
1	over 1945			•\$z-916ī	Cwts.	15.9	19.7	10,1	20.1	35.2	26.1	41.5	14.	41.2	54.9	27.8	40.6		29.30 23.4	26.40 26.4	33.10 30.6	
	9, 1856		Over.	·51-9061	Cwts.		16.9	10.2	29.5	36.8	25.6	56.8	14.0	32.10	47.7	30.1	39.9	•	29.36	8.4g	33.16	
	Period		Averages Or	·\$061-9681	Cwts.	19.3	25.78	14.40	2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	44.1	34.6	97.8	17.6	47.00	50.0	38.7	40.4	•	29.16	39.60	Ø.14	0.00
	Average Produce of Hay per Acre over the Nine. Successive 10 year Periods, 1856-1945, and over the August Pariod 1946, 40 Flust Chons only.		Aver	·56-988T	Cwts.	23.8	29.5		23.0	39.3	35.5	47.6	17.1	49.1	45.6	29.1	37.4		31.1	43.6	40.3	
	Produ			•48-9481	Cwts.	30.1	2.00.		30.5	50.5	38.6	48.5	18.0	54.2	53.8	24.9	41.5		32.2	38.60 37.2	38.7	
100	Torage 100088			·67-93et	Cuts.		30.5		36.8	48.4	39.6	53.6	22.9	9.76	60.5	34.9	47.6	6	33.15	38.6	36.50	2 4
1	4 € €	5		·49-968t	Cwts.	48.4	29.6		33.9	53.6	52.8	61-70	25.1	55.1	53.10	36.1	48.12 31.5					1872-75 1898-1905 1896-1904
		21	1	Plot		-0	444 R	21	2000	0 0	10	1112	12	13	14	15	17		18	19	20	14,
		Organio Memres	- 1	Flah onau0	. Cart.	11		1	111			1-1	1	9	-	-						
	-	8 4	9.70	Parayard Manu	Ton		111	-	111	1		11	-	14		1	11			77	4	<b>600</b> 0
5				Silicate	Lb.			1	111		- 0	400				-			0			0000
TABLE 1a		muree	200	soa to Sulphate alasmash to	чт . чт			•	1000		100 100	100 100 100 100		-			100 100		100 100			
1			43	Sulphate of Potash Sulphate	Lb. L				5000		- 1			1			500 1		500	1	100	
		Winers M		Superphosphate	Owt.		3.5		พูพูพูพู พพพพ			3.5		,	"	3.5	3.5				1.8	only, 1859-65 " 1862-65 " 1858-65
100	2	7 2 6	_	shoa to	rp.	11		•				1.1	100	1	550		275				168	nly, ]
		Nitro- genous Manures		mulnommA etadqius	बु	220	440	-	1111	440	440	099		1		1	1.1	170	440	1		9 = = =
1	re.					Amonium selts = 45 lbs.N With rarmyard manure, 1856-53) Immanured (efter farmyard menure, 1856-65)	1bs. #	esh	(after amonium saits, 1856-57 = Plot 5) As plot 7 (after amonium saits, 1856-68) Complete anisoral manure Missers] menure afternt rotash	lt8 =	mine		Unmanured Farmyard manure and fish guano, each once in four reserve above 1005 (after out wheat straw, minerals.	aoda	66 lbs. N. Complete mineral manure (after nitrate of goda,	soda		and als and of hay,		phate of	potash, superphosphate, and nitrate of soda = 26 lbs, N in other years (after superphosphate and nitrate of potash, 1872-1904)	9000 1 year
-	per Ac		To be			1856-6	# 86	of pot	Plot 5 1856-6	lum BB.	nd amm	амшол	ach one	te of	trate	te of		miner 1 ton	(afte.	; swl	te of uperph	
	Quantity of Manure per Acre.		- L	Description of Manure	1113	enure,	salts	lphate	-97 = lte,	BIRMON	ash) a	extra	ano, e	nitre	ter ni	nitra		(after arts of	h year	h year	fter a	
1	ty of h			lon of		lbs.N	monitum fter an	te, su	1956 nium 8	re and	ut pot	ire and	tsh gu	re and	re (ef	re and	lbs. N	t supulbs. N	r fourt	2-1904,	te, an	
	Quanti			soript		= 45 ir farm	of 11m	5)	salte r ammo l marm	1 manu	withche. N.	silice	s and 1	lts)	al mam	al mant	B = 43	*1tho = 86 to con	e ever	a, 187	ther y	
THE PERSON NAMED IN				å	No.	Ammonium saits = 45 lbs.N (With Farmyard 1956-65) Unmanured (after farmyard menure, 1856-63)	Superphosphate of lime Superphosphate and smm (N. half) Unmanured (af	Superp	monium (afte minera	Complete mineral manure and amonium salts 85 lbs. N.	Mineral manure (without potash) and ammonium salts = 86 lbs. N.	Complete mineral manure and extra ammonium salts = 129 lbs. N. As plot 11 and silicate of soda	manura ne 190	and ammonium salts)	miner	1858-75)	of sod	Mineral manure without superphosphate, and ammonium salts = 86 lbs. N (after minerals nitrogen equal to constituents of 1 ton of 1	manur monate	of sod	superr N in o ate of	
1			10000		4	Ammonium 1856-63) Unmartured	Superphos Superphos (N. half)	76-97 =	plot 7	iplete	neral u	mplete lts = plot	Unmanured Farmyard	d amo	es ib	58-75)	43 lb	monium trogen	1865-1904) Farmyard m superchosp	trate	tash, lbs.	
Y STATE					1 3	1867	Sur Sur	18,	A CO A	28	Sec	C o A	Fa	2 2 5	8 0	18	1 7	걸림검	7 P	건물	26 8 n	Na
	1 20			Plot		1 81	144°	, 22	1 010	00	01	ın,	13	14	12	16	14	18	13	20		

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TABLE 1 b.

	limi	gular ng I t lime)	pH Plots 1-17 Plots 18-20	in 1945	over two suc 1926 - 45 an	duce of hay per cessive 10 - yed d over the 4 - years irst crop only,	ear periods year period
Plot	Begun in	Amount per acre every	Unlimed	Limed	dry matter,	LIMED	
	Year	4th year			1926 - 35	1936 - 45	1946 - 49
1 2 3 4-1 4-2 5-2 5-2 6 7 8 9 10 11-1 11-2 12 12 14 15 16 17 18	1903 1903 1903 1903 1903 1903 1903 1903	2000 lb	4.5 5.0 5.5 4.0 4.5 5.0 4.5 5.0 4.0 4.0 4.0 5.6 6.0 5.0 6.0 5.5	7.0 7.0 7.0 7.0 5.5 7.0 5.0 5.0 4.5 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 36.6 51.9 53.4 - 36.0 46.9 23.8 30.4 22.7 38.0 30.2 21.5	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 21.9 20.0 22.0	16.9 13.4 12.7 15.3 24.2 33.0 13.6 32.7 24.9 45.1 45.8 29.2 39.6 23.4 31.1 19.7 22.6 20.1 24.6
20	1920 1920 1920	5 cwt 25 cwt 5 cwt	5.7	6.5 7.6 6.5	24.1 33.3 35.1	23, 3 27, 6 29, 7	26.2 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.

								TADIE 1	Rotaninal analyses	Plots 5, 12, (2, 51) Unmenured <= less than 0.05				
	1856-1897.			1949	0,5	17.8 0.7 0.5 0.5 0.5 1.1 1.1 1.2 1.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	82.2		1	-2	3,1		11	2.1.1.7.4.4.1.1.7.4.1.1.1.2.2.1.1.1.2.2.1.1.2.2.1.1.2.2.1.1.2.2.2.1.2
	Salts, 16			1)26	10	23.6 0.55.0 12.3 1.2 27.9 1.2 1.2	80.7	A B	3	0.1	7.0		17	0.00011118 1000110 0.000120 1000 1000 1000 1000 10
	Ammonium Se	57	UNLINED	1919	10	4.5 0.3 11.7 11.7 11.7 0.6 0.6	76.7	N. H.	1	4.1	0.4		Z	9. 40. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	After Amm		N/O	1914	11	7.7. 0.1. 0.5. 0.5. 0.5. 0.5. 0.5. 0.5. 0.5	86.3	-	3	0.2	0.5		17	0.000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	AF			1903	13	11. 12. 12. 12. 12. 12. 12. 12. 12. 12.		1	0		0		6	11801111111111111111111111111111111111
-				1949	113	2.0.0 2.0.0	1 "	100	4	4.0.40	17.8		18	000 1 1000 00 1 1 1 1 0 1 0 0 0 0 1 1 1 0
	63.		LTMED	1919	14	2. 11. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	1 "	100	4	0.00	5.6	1000	14	4 1000 1 1 1 1 1 2 1 0 1 0 1 1 1 1 1 1 1
	P.T.W., 1656-1863.			1914	13	24.1 1.5 1.5 1.5 1.5 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6			4	41.80	7.4		13	4 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	.T.M.,	2		1949	12	10.0 9.6 11.1 15.5 1.6 1.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1 ",		4	2.6.6.0	15.6	,	92	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
MANURE.	After P		UNLIMED	6161	13	2.4. 000 C . 0			3	2.7	4.3		15	0.0.1.1.1.4.000144.8.0.00000
Lav B				1914	259	8 1.14.00.44.00.00.00.00.00.00.00.00.00.00.00	9.09	-	4	3.87	5.6		17	9 . 9 . 9 . 1 . 1 . 9 . 9 . 9 . 5 . 1 . 6 . 1 . 9 . 9 . 9 . 1 . 8 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1
МО			0	1949	12	7.7.7.00.04.0.1.0.1.0.1.0.1.0.1.0.1.0.1.0.1.0	58.4		4	1.17.4	13.3	30	07	7
		12	UNLIMED	1919	12	# Pracon 40 014	¥.9	1	3	2.0	5.3	100	15	200000000000000000000000000000000000000
				1914	14	8 - 1911099 - A4K - 400000	69.2		4	2.1.2	7.3	00	22	
				1948	12	8.0001.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			4	100	16.1	7.	Io	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
				1936	13		1-5		4	1000	16.2	7.	9	21.00.00.00.00.00.00.00.00.00.00.00.00.00
			Ð	1926	14	77	61.8	1	4	of Migral	5 7.7	The second	27	7
	Since 1856.		CIMED.	1919	12	2.1.5.0.2. 2.2.2.2. 2.2.2.2.2.2.2.2.2.2.2.2.2	5 59.1		3	3.22.1	5 5.	4	77	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Sino	3		1914	12	2.9			3	28 2 E	3 8.5		18	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
				1948	11	15.6 15.6	0 53.0		4 4	0.7 0.9 2.0 7.8 0.2 0.3	9.6 7.3		0 21	2.99.1.1.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3
				9661 9	12	24.12.14.28.29.29.29.29.29.29.29.29.29.29.29.29.29.	4 45.0		4 4	0.2 0.2 0.2 0.2 0.2	6.1 9.	P	22 20	4. 100
				9261 61	2 12	8.4 18.5 0.77.0 0.05.3 0.05.3 0.02.0 0.13.0	.7 49.4	X	3 4	25.00	4.6 6.		13 2	9.90 1.17 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
			UNLIMED	14 1919	3 12		56.9 47.7		4	0.0.55	6.2 4		22 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				1905 1914	13 13		13		4	5.5.5	7.6		26	2112 112 12 2 4 A 224 5 A 3 A A C 4 2 2 2 2 2 2 3 4 2 3 4 3 4 3 4 3 4 3 4
-				61	1	2.0.00 2.0.00 2.0.00 2.0.00 2.0.00 2.0000 2.0000 2.0000 2.0000 2.000 2.000 2.000 2.000 2.000 2.000 2.0000 2.000 2.000 2.000 2.	Total 52.3			N KHO	Total 7		2	
	Menuring	Plot mumber	Unlined or Limed	Serron	Number of species	1. Agroatis volgeris 2. Afra cesspirators 3. Afra cesspirators 4. Anthoxanthus odoratum 5. Arabanthus odoratum 6. Aran Livenous 7. Aran plessons 8. Brita modia 8. Brita modia 9. Oynosura cristicus 10. Oynosura cristicus 11. Battus pracus sistematis 12. Fentus pracus sistematis 13. Loltus pracus sistematis 14. Holtus lanatus 15. Loltus pracematis 16. Pos trivialis 17. Sea pracematis		LEGUMINOSAE	Number of Species	1. Lethyrus pratenals 2. Lous cornolleus 4. Infollus pratense 5. Trifollus repens		MISCELLANEOUS	Number of species	18.2. Remuncollus acris et bulbosus 5. fols cantras 6. Setalaria gemines 7. Astinonie suchiaria 10. Potestilaria pugatoria 10. Potestilaria vulgaria 11. Septimonie superoria 12. Septimes unbanta 13. Herot leus annoti suchiaria 14. Compodium demudakum 15. Herot leus annoti suchiaria 16. Sentilaria sullaria 17. Rajularia et accidenta 18. Sentilare all'alfactilum 20. Centanire un pro 22. Hierotoria ni protestila 23. Herotorian radioata 24. Lentocom ni mpilare 25. Herotorian radioata 26. Lentocom ni mpilare 27. Tragopogen printenni u 28. Lentocom ni mpilare 29. Paratago lancemia 29. Paratago lancemia 29. Paratago lancemia 29. Augus replace 20. Augus repubatoria

									TABLE 3 Botanical analyses J Plots 6, 7, 8, 15 Minerals only (no N)			
		18-1875	T. Carrier			3.6 9.9 9.8 9.8 9.0 1.5 6.6 6.6 6.6 13.4	69.7 56.1 46.8	3 3 3	13.8 13.4 6.0 2.6 6.6 16.5	16.4 26.4 52.7	13	11.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
		of Soda	15		13 10	16.6 2.6 10.6 10.6 10.6 10.6 10.6 10.7 10.6 10.7 10.1 10.5 10.5	77.8 78.8 42.2	Mari	7.7 22.3 0.9 0.9 2.8	15.4 9.1 27.7	13 9	25 1 1 2 4 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		COMPLETE after Mitrate	CHURCH	*****	16 14	July 1 - August 1984 to 10 to	4343 394.5 09.5	5 4	16.3 28.0 5.8 2.6 6.7 2.4	29.0 55.1 5.4	14 11	1
	lime	usts after Amontum a 13 years, 1856-1868	6		12 12	5 . 75, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	1 65.1 71.2 51.1		7.5 9.9	3 24.4 11.9 31.3	15 12	1
AND GROUP OF SPECIFS	sulphates and Superphosphate of 1	yeare 1896-1861 community sale 13	(Then			7 . 22 7 7 7 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3	59.0 62.8 55.4 55.6	3 3 4 4	5.5	40.8	14 16	11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
TABLE ). PRECENTACE OF PACH SPECIES AND	and Magnestum	after COMPLETE 6 years	œ <u> </u>	1	1935 1948 1914	5.224.0.10	55.7 52.6 69.6	4 4 4	6.5 3.3	11,3 7.5 5.0	at 71	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
MOMENSE OF SPECIES AND PERC	MANUME = Potussium, Sodium	WITHOUT POTASH a		OMETH	1903 1914 1919	0.7 7.8 8.9 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9	6 43.4 63.3 46.6	4	3.7 12.2 1.4 1.4 1.5 1.5 1.7 1.7	.5 18.6 10.7 10.5	31	23
Klad	MIXED MINERAL MAN				19 1925 1935 1948 2 13 12 14	11.8 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	99-1 75-2 58.6 56.6	3 3 4	23.6	19.5 1.1 31.5 25.5		2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
		18% and alnos	7		1935 1948 1914 1919 11 13 13 12	4. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	47.5 46.7 72.9 59	20 20	31.0 11.3 15.9 19 2.8 0.5 0.1 5.1 5.4 2.7 0.7 3.4 1.0	77.6 19.9 19.7		25. 25. 25. 25. 25. 25. 25. 25. 25. 25.
		COMPLETE		UNLINED	1914 1919 1925 19	6. 72 22 23 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	66.3 52.1 72.8	2 2	0.6 0.5 4 0.6 0.5 4 0.7 0.2 0.2 0.9 0.1 -	17.0 8.8 6.5		13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
	-				1903		Total 41,0	4	22.0 (collatus 0.4 pratarus 6.4 4.5	Total 33.1		16 monthly acris at bulbooms 2.6 monthly acris at bulbooms 2.6 monthly acris at bulbooms 2.6 monthly acris at bulbooms 2.7 mon
		Menuring	Plot mumber	Unlined or Lined	Sea son GRANTIFEAS	Musher of opposite  Agreedia wilgeria  Agreedia wilgeria  Adribementhus occuretum  Arribementhus occuretum  Arribementhus occuretum  Arribementhus occuretum  Arribementhus medica  Arribementa medica  Arribementa medica  Arribementa medica  Demon medica  Pertura reference  Pertura		LEGUNTHOSAE	1. Lathyrus pratenals 2. Lotus corniculatus 4. Trifolius pratenas 5. T. repens 6. T. sinus? 7. Wick septum?		MISCELLAMEOUS	of the state of th

						TABLE 4  Botanical analyses  Plots 52 & 41  Minerals  Plots 14, 16, 17  Nitrate of soda + minerals  <= less than 0.05	
			and i	Lined Non Shade Sum Shade Sun Shade 1923 1935 1935 1941 1941 1946 1948	10 12 9 12 10	2. 3222 - 322 - 322 - 32       4 </th <th></th>	
		Finaral Henuro. = 86 lb. 1	14 Table Table	भर्षा १४६१ ६१६१ ६२६१ ६१६१ भर्षा १६६१ ६०६१	13 12 11 9 40 9 10	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	
or stepures.	HITSATE OF SCDA.	With Miced		1949 191	10 12 12 12	24.48.00.00.00.00.00.00.00.00.00.00.00.00.00	-33
O THE R. STEPS OF THE PARTY OF		Alono - 45 1b, N.	LT.	3 1949 1923		15514522 155 1522 1	1984 1 1 1 1 2 1 2 1 2 1 2 2 2 2 2 1 1 1 1
a LO SERVICE	SUPERHOGHUTE	Altoho, 18% end stros.	L a	1914 1919 1949 1949 1949 1944 1917		2242222.4223	. 222 . 2 22 22
	MUNES MITERIAL MANUES	After Amenium Salta 42 years, 1656-1697.	3.5	1 (06t 646t 926t 616t 416t		6. 5. 6. 4. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	2222222 22 22 2 2222
		Sta 1-d reason	Flot Number	United or Lived	GAMINIA	7277 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The delice wave and the state of the state o

								TABLE 5  Botanical analyses Plots 9, 10, 11, 112 PAmonium salts with	& without minerals	<= less than 0.05				
	. = 129 lb. N).		With Silicate of Sods since 1861	-11	au ru	1 6161 6161 6161 6	9 6 8 7	89.6 0.3 49.7 76.0 77.9 49.7 0.0 85.6 16.3 17.5 6.1 0.0 11.6 7.3 10.3 8.0 1 10.3 6.0 9.1 99.3 99.9 99.8 77.6	0 0 0		1 1 0		1 1 2 0 3	0.4 0.7 0.4 13.3
	AMMORTIM SALES (600 lb. per agre = 129 lb.	With Mixed Mineral Manue	As Plot 9		TO THE PERSON	1919 1949 1914 1917	7 2 9 9 6	1 1 0 0 0 0 1 27.3 64.0 82.0 17.6 6.1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0				0 1 1 2 2 2 0	003
SPECIES AND GROOF OF SPECIES.			que			1919 1935 1940 1948 1903 15	8 7 8 7 8	71 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			11		2 1 2 1 4 2	001 002 004 003 004 003 004 003 004 003 004 003 004 003 004 003 004 003 003
TABLE 5. Minera of Spattes, and Proceeding of Bullet SPE		(Ineral Menure		10	UNLINED	1914 1919 1935 1940 1948 1914	9 10 8 7 7	18.7 20.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		0 0 0 1 0	11 C		4 1 2 0 1	1.5 7.4 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
ROBINA	(H At 70	re = 00 to, n).	With Potenth	6	LDED	48 1914 1919 1955 1940 1948	11 10 10 11	7.77 2.7 2.3 1.2 2.0 4.2 4.2 4.1 4.1 4.2 4.2 4.1 4.1 4.2 4.1 4.1 4.2 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1		0 0 1 1 1 1	. 0,1 0,1	0 0.1 0.1 0.7 3:3	1 3 4 3 4 7	0.5 0.1 0.2 0.3 0.2 0.3 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
		AMOUNTA SALTS (400 1b, per acre = 00 1b, H).	Tal.		UNLINED	1909 1914 1929 1935 1940 1948	10 9 3 6	\$ 5.5   1.5		0 0 0 0 1	11	0 0 0 0	7 5 3 0 0	0.1 0.1 0.1 0.1 0.0 0.2 0.2 5.3 15.1 0 0 0
			Menuring	Plot maber	'mlimed or Limed		GRANITIEAE Number of species	11. Aggestia priggetta 3. After constitions 3. Attentional properting principles 4. Anthorauchum coloratum 5. Artenatherum avenorum 6. Artenatherum avenorum 10. Artenatherum avenorum 10. Breman mallas 10. Breman mallas 11. Bretig afternatum 12. Breman mallas 13. Bretig afternatum 14. Billous humatum 15. Breman mallas 15. Bretig afternatum 15. Bretig		Number of species	stensis ratense	Total	Minder of speaks	4. Geratina vilgetina 5. Stallaria grandena 10. Petentilla regulation 13. Anthriens privatita 13. Anthriens privatita 13. Stallaria enquationina 13. Stallaria enquationina 13. Stallaria enduation 13. Anthrien enduation 13. Tendenaming enduation 13. Tendenaming enduation 13. Tendenaming of tendenaming 13. Pantago necessita 13. Pantago necessita 13. Pantago necessita 14. Pantago necessita 15. Pantago necessita 16. Pantago necessita 16. Pantago necessita 16. Pantago necessita 17. Pantago necessita 18. Pantago necessit

										1	13	TABLE 6a	Botanical analyses Plots 1, 42, 18 Ammonlum salts with or without	mnerals.	< = less than 0.05	
				8	1948	11	1.2	25. 0 0. 8 0. 1	2.2	0.100	82.9	2 0	0.1	100	-	1.00 1.1.0
		ls +		HEAVY LIME	1928	10	4.8	22.7			94	1 0	0.2		3	3,14,11,1,00,33,14,11,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
3		. Minera		HE,	1923	00	2			4.4	8.1			+	1	2 2 2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		5-1904.		IME	3 1948	14					8 80.8		0.1			2.4 0.2 2 4 0.2 2 19.0 0 1 1 1 2 2 19.0 0 1 1 1 2 2 19.0 0 1 1 1 1 2 2 19.0 0 1 1 1 1 2 2 19.0 0 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1
		thout Sur ars, 186	18	LIGHT LIME	23 1928	9 11		10.3 45.6 2.2 0.5 2.0 2.9 0.1 <			85, 5 96, 8		1111			0 0 0 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
		nerals wi			1948 1923	9	6		-	11111	2		1111		+	N NH L
		with Mixed Minerals without Super; after Minerals Nitrogen, 40 years, 1865-1904.		TED	1928 18	10	300					0	1111		3	1 2 1 1 2
		with M	19	UNLIMED	1923 1	00				2.11	1	1	0.1	0.1	4	111111100111111111111111111111111111111
PECIES		=86 1b N			1919	10	- 10				1	0			2	111111111111111111111111111111111111111
UP OF S	iv.				1914	11	10 01		37.1	0.3	100	1	0.1	0.1		8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ND GRO	SALTS	ate		Q	9 1949		- 1	24.3	7 57.4		5,	15	1111		200	0.2 0.4 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1
CTES A	NUM	Superphosphate		LIME	1914 1919	-		1.0 0.3 42.4 76.1 7.6 1.11				No.	1111			0 0 1
ACH SPI	AMMONIUM	with Supe	42		1949 18			10.01				0	, , , ,		-	01 0
LE 6a IR OF E		7 df 38		MED	1919		eo !	6. 4.1.6. 2. 4.1.1.	0.6	8.1.	7 92.0	0	3 1 1 7	. 0		The state of the second section and the second
TABLE 6a		A		UNLIMED			1	2.5			1	0	F # 4 %			111111111 1 4 1 V 2 1 1 1 1 1 1 1 1 1 1 1 2 1 V 3 1 V 1 2 1 1 1 1 1 1 1 1 1 1 2 1 2 1 V 1 2 1 1 1 1
TABLE 6a NUMBER OF SPECIES AND PERCENTAGE OF EACH SPECIES AND GROUP OF SPECIES			-		1948 1903			2.5 4.6 1.4 23.4 3.0 1.0 1.7 -	53	1.3 7.7 0.2 0.2	63.3 93.6	8	0.2.0	4,6		
ECHES A				0	100			34.8 12			83.6	6	-	2.1	3	
R OF SP		2000	Jemin	LIMED	1919 1939		10	8		1.8	77.8	2	0.4	0.7	6	4 0 14
NUMBE		W 74			1914		12	2.4 6.9 6.9 7.1 0.1	7.0	3 6	72.6	2	0.5	0.7	6	100 00 00
			a ostre ; vi di see =		1948	3 1			3.2		94	0		T. Comment	5	1 0 0 22 0 0
		3	e = 43 ID	UNITABLE	9 1939	dana	8 :			4 4 0.2		0 0			5 4	2 2 2 1 2 2
			Alone		19			117.000	11	7.1 22.4	9 86.4	0 0		-		3 8 68 W W W T
	-				1914		10									
			1					Agrostis vulgaris Airo caespiños Alopecuris pratensis Arrhoxanthum odoratum Arrhinentherum avenaceum Avena flavescens Avena puboscens	2.8		Total		S to D	Total		Professional acrise et bulbosus Cerastum vulgatum Stellanda gramme Stellanda gramme Stellanda gramme Stellanda fodosuca Stellanda fodosuca Stellanda fodosuca Stellanda fodosuca Combonita sustringa Cathin vectum Firique all modellum Firique all modellum Firique assiringa Galhin vectum Firique assiringa Scellosa avrensis Acultae mildeolum Centaurea nigra Hypotherits radicata Leomodon hispidus Senecio jacobas Franzacum vulgare Trangongon prateusis Plantago lanceolata Veronica charmacaliva Plantago lanceolata Franzacum vulgare Trangongon prateusis Plantago lanceolata Veronica charmacaliva Tranda polina prateusis Plantago lanceolata Leomodon hispidus Lunala variona et arricus and Lette diotea Lunala campestris Carex pratecox
		1						pitosa pitosa is praten- hum odor erum av escens escens	s cristati glomerata ubra ratensis	natus erenne nsis dis			Lathyrus pratensis Lous corniculatus Trifolium pratense Trifolium repens			Romancolas acris e bulbos coractum volgatum stellaria grandinea stellaria prandinea stellaria prandinea stellaria prandinea stellaria propriato de conformationa sulfraga conposition demostrationa composition demostrationa stellaria sulfraga conposition demostrationa stellaria sulfraga conpositiona sulfraga conpositiona sulfraga activate si principie assistinga activate and sulfactum centarea nigra Leonodon hispidus Senerio procedosa Taraxancum volgare Plantago lanceolata Premiella volgaria Rumax acetosa Rumax acetosa Rumax acetosa Lusala campestria Carex praccox
			5	Test .	Limed	LE .	Number of species	Agrostis vulgaris Aira caespitosa Alopecurus prater Arthoxanthum ad Arrhenetherum ad Avena flavescens Avena pubescens	ynosuru actylis g estuca m	olium pe oa prate oa trivia	talks	Number of species	athyrus otus cor rifolium	SHOGINA LITERATION	of species	i species coractol coractol coractol coractol coractol physical physical coractol physical coractol physical coractol physical coractol co
			Manaring	Plot number	Unlissed or Limed Season	GRAMINEAE	mber of	4444444				Number of spec	5. T.	T. Law.	Number of	Number 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

									שרו	33	Botanical analyses. Plots 13, 19, 20	Farmyard manure.	<= less than 0.05.	
	oda 104		IME	1948	1	1. 0. 17. 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			E-	6	1 8.8			1 00
	ate of Sc 1872-19		HEAVY LIME	3 1928		2 24.1 2 24.1 3.8 3.8 7 28.9			1 3	61	43	3/2		8 HH 8 M M M M M M M M M M M M M M M M M
	and Nitr			1923		5 5.3 25.2 3 1.2 5 0 1.2 0 11.7					2.1 5.3			100
	Potash and Nitrate of Soda soda, 33 years, 1872-1904	1	LIME	1928 1948	1 1	4, 2 2.5 30, 6 21.9 6, 4 1.9 8.7 21.7 9, 3 3.0			150	9/3/	1.8 2	98		14 0.0.3.3 10 0.0.4.0.0 1.0.0.1 1.0.0.0.1 1.0.0.1 1.0.0.1 1.0.0.1 1.0.0.1 1.0.0.1 1.0.0.1 1.0.0.1 1.0.
	ery fourth year, with Super, Sulphate of other years, after Super and Nitrate of	20	LIGHT LIME	1923 19		12.7 16.9 30 12.4 5.3			100	-9-00	6.6			0 0 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1
	aper, Su		-	1948 1	12		-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	++	60	0.1			\$\frac{1}{2}\ldots
	fter Sup		100	1928	14	4.1 11.3 11.3 3.4 6.6			1 1	63	2.6	2.8		11 8 4 1 1 1 6 1 6 1 1 1 8 6 1 1 1 1 1 1 1 1 1
	rth year		CNLIMED	1923	13	29.4 0.3 0.3 5.6 6.1	6.0	11.2.0.1.1	88.3	es.	1.9	4.6		11 1 1 1 1 2 0 1 1 1 2 0 0 0 0 0 1 1 2 0 0 0 0
	Every fou		UNI	1919	1 3	6.6 30.3 1.1 4.6 10.2				-	7.1	4.7		41 .0.0. 11.7. 1.0. 1.1. 1.0. 1.0. 1.0. 1
PECTES.	E .			1914		11.1 0.6 6.3 6.3		_		0	6.4			11
7P OF SI			LIME	8 1948		1 16.7 14.3 14.3 5.4			-		9 1.7 9 0.5	10.	5.5	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
D GROU	hsh		HEAVY LIME	23 1928		3 2.4 1 6 21.1 3 0.7 1 15.9 7 6.1 3 11.9				17 7	15, 5 1, 0 0, 5 0, 9	3-1	3.3	111 111 111 111 111 111 111 111 111 11
OF EACH SPECIES AND GROUP OF SPECIES SD MANURE	e of Potash		-	1948 1923	-	25.1 14.6 1.3 1.5 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	-	Children and	200		-	200		2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
EACH SPE	Sulphat		LIGHT LIME	1928 18	163	5.1 7.9 3.2 3.2 8.2 8.2				2	10	300	- 3	13 0.0 0.3 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGE OF EA	after Super, Sulphate	19	LIGHT	1923 1					400	23	9.3	10,1	Chill Co	10 10 10 10 10 10 10 10 10 10
PERCENTAGE OF	1 2 2			1949	12	11.8	, , e, e,	1.1	50.3	4	13.5	17.5		13 10 10 10 10 10 10 10 10 10 10 10 10 10
AND PER	ery fourth yes			1928		33.2 11.6 7.9 3.5			91201	Litt.	1.6			8 1 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ECTES A	Every	No. of Street, or other Persons and the Street, or other Persons a	UNLIMED	1923	13	14.3 11.6 11.6 2.0 1.9				18	7.3			4.00 1.40 1.00 1.4.0 1.4
3 OF SP			15	4 1919	13			28 8 8 8 1. 4 4 1. 4 1. 4 1. 4 4 1. 4 1.	910010	4 2	80	18	1	# 044 48
NUMBER OF SPECIES	tax			1948 1914	12 14	0.1 7.6 10.4 13.4 0.3 1.0 25.9 3.7 0.1 8.9		1.8 0.3 - 6 4.4 - 6 6.3 - 6 6.0 6.3 - 6 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6		ω 4.	7.9 9.2 - 0.8 2.4 0.1			23.0
	, after ch	OT-CHOI		1944 19	9 1	5.8 10				4	30.9		1	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	ternately	n saits,	LIMED	1919 19	111	35.3 20.5 0.1				1	0,8	_	1	11. 22
	Suano all	13		1914	10	2.3 18.3 40.3			nau a	1	6.0	0.9	To the same	0 1 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 0 0 1 1 1 0
	Every fourth year with Fish Guano alternately, after cut	als and a		1948	6	15.7 31.9 6.2 3.4			73.8	2	0.5	3 3	STATE OF THE PARTY OF	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.
	year wi	, minera	UNLIMED	1944	12	1 3 5 F			85.7	-	0.3			11. 000 000 000 000 000 000 000 000 000
	ry fourth	at straw	5	19	111	11,0 17,3 10,1			5 79.9	1	5 0,1	1		8 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Eve	whe		1914	10	11.8 18.5 4.0 24.4 0.1	1154	14.6		-	0.5	+		8 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		100				saceum			Total	No all of		Total		bulbosus is um tum is s s s
			100	Bar I	1	Agrostis vulgaris Aira caespitosa Atopearurus pratensis Arthoxardhum odoratum Arrhenatherum avenaceum Avena flavecens	oristatus omerata	atensis trus enne sis tense			Lathyrus pratensis Lotus corniculatus Trifolium pratense	repens	N I I	Prof. species  Cerrastian vulgatum  Cerrastian vulgatum  Cerrastian vulgatum  Sicilaria grauninaa  Sicilaria grauninaa  Sicilaria solostea  Sipiraa ulmaria  Anthrincua sylvestris  Conopodium demutatum  Practicum spondylum  Practicum spondyl
		1	Timed		species	rostis vu ra caespi opecurus thoxantin rhenathe	nosurus ctylis gle	stuca prolection long linu per a pratent a triviali leum pra	ILES	SAE	thyrus p. tus corni ifollum p	ifolium	NEOUS	species nunculus nunce nunculus nunce nunculus nunce nunculus nunce nunculus nunce nunculus nunce nunculus nunc
		Manurang	Plot number	Season	Number of species	A A A A A A A A A A A A A A A A A A A	E C C C		25	LEGUMINOSAE Number of species	1. Lat 2. Loi 4. Tri	Tr	MISCELLANEOUS	Number of species  1. 2. Rannochu  5. Stellaria  5. Stellaria  10. Potentila  11. 3. Antriscue  11. 4. Antriscue  11. 5. Antriscue  11. 6. Antriscue  11. 7. Antriscue  11. 7. Antriscue  11. 6. Antriscue  11. 7. Antriscue  11. 7. Antriscue  11. 8. Antriscue  11. 8. Antriscue  11. 9. Antriscue  11. 10. Antriscue  12. 10. Antriscue  13. Antriscue  14. Antriscue  15. Antriscue  16. Antriscue  16. Antriscue  17. Antriscue  18. Antriscue