

TABLE IV—(continued).

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	Roots. P ₂ O ₅ .	Remarks.	Stalks. P ₂ O ₅ .	Spikes. P ₂ O ₅ .
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
26.1.1925	Open, fairly fresh, old leaves 45 cm. long			40.0	0.192					
3.2.1925	Open, old leaves 65 cm. long	50.0	0.257	45.0	0.185	Roots thick, but dry, absorptive tissue without root hairs	0.062	Spikes dry, without seeds...	0.068	0.227
10.2.1925	Open, tips of old leaves dry, young leaves rolled	50.0	0.241	51.0	0.227	Absorptive tissue dry, without root hairs	0.188	Spikes lost most seeds, remainder soft	0.046	0.165
17.2.1925	Old leaves half open, young leaves rolled	36.0	0.353	38.0	0.250	Absorptive tissue not easily removable	0.107	Spikes with few shrivelled seeds, stalks yellow	0.076	0.154
25.2.1925	Folded, dry at tip.....	52.0	0.230	45.0	0.203	Absorptive tissue peeling off.	0.093	Yellow stalks, spikes with shrivelled seeds	0.070	0.210
10.3.1925	Open.....	35.0	0.355	42.0	0.217	Rather dry, a few new roots	0.062	Spikes with shrivelled seeds, some fallen, young haulms	haulms : 0.015	0.283
20.3.1925	Open.....	32.0	0.326	37.0	0.300	Dry absorptive tissue.....	0.087	Young spikes and stalks....	0.089	0.159
30.3.1925	Open.....	35.0	0.288	34.0	0.250	Absorptive tissue with root hairs, new roots	0.084	Spikes with young seeds....	0.043	0.189
9.4.1925	Open.....	38.0	0.250	36.0	0.250	Absorptive tissue with root hairs	0.130	Spikes just flowered.....	0.089	0.286
20.4.1925	Half folded.....	38.0	0.261	40.0	0.230	Absorptive tissue with few roots	0.091	Spikes before flowering.....	0.094	0.288
4.5.1925	Old leaves open, young leaves rolled	30.0	0.291	30.0	0.158	Absorptive tissue with few roots	0.068	Spikes flowering.....	0.100	0.257
15.5.1925	Young leaves scarce, rolled..	45.0	0.209	48.0	0.197	Absorptive tissue with root hairs	0.107	Haulms young.....	0.085	0.333
29.5.1925	Few green leaves, open....			38.0	0.240	Absorptive tissue.....	0.125	Some haulms green, most grey, analysis on grey material	0.063	0.133
15.6.1925	Brown leaves..... After rain new green leaves came up, rolled	65.0	0.300		0.081	Thick absorptive tissue.....	0.102	Grey stalks.....	0.029	
29.6.1925	Brown leaves..... Very few folded green leaves			50.0	0.069	Dry absorptive tissue.....	0.091	Yellow stalks, spikes empty.	0.053	0.167
17.7.1925	Brown leaves..... Very few green leaves, folded			50.0	0.176			Spikes dry, stalks yellow....	0.031	0.096
27.7.1925	Brown leaves..... Almost no green leaves, brown leaves				0.058	Dry, no absorptive tissue...	0.127	Haulms dry.....	0.023	0.122
4.8.1925	New green leaves, rolled and folded Brown leaves.....	33.0	0.333		0.211	Small loose absorptive tissue	0.104	Haulms dry.....	0.041	
					0.060	Absorptive tissue without root hairs	0.150			
					0.093	Absorptive tissue without root hairs	0.109			
					0.058	Some roots with removable tissue, with root hairs, some with root hairs without removable tissue				

TABLE V.

Pogonarthria falcata, Armoedsvlakte. Phosphorus content as percentage phosphoric oxide on plant dry matter throughout the year.

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ % of Stalks.	P ₂ O ₅ % of Spikes.
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
29.8.1924	Green rolled leaves.....	45.0	0.188			Absorptive tissue with root hairs	0.102			
4.9.1924	Most rolled, 6 cm. long....	43.0	0.230			Absorptive tissue with root hairs	0.080			
10.9.1924	Rolled 6 cm. long.....	46.0	0.171			Absorptive tissue with many beautiful root hairs	0.083			
19.9.1924	Tightly rolled, 6 cm. long..	44.0	0.183			Absorptive tissue with many root hairs	0.080			
26.9.1924	Rolled after rain.....	42.0	0.162			Root hairs, secondary roots.	0.091			
2.10.1924	Open, 11-13 cm. long.....	31.0	0.270			Root hairs, secondary roots.	0.111			
14.10.1924	Rolled 8-10 cm. long.....	48.0	0.176			Good root hairs.....	0.084			
21.10.1924	Rolled, tip brown and withered, 15 cm. long	47.0	0.220			Root hairs only at basis of absorptive tissue	0.095			
28.10.1924	Rolled, tip dry, 18 cm. long	68.0	0.208			Root hairs on absorptive tissue, some roots with secondary roots	0.115			
31.10.1924	Open and fresh, 18 cm. long	46.0	0.203			Root hairs, secondary roots.	0.088			
11.11.1924	Open, to 20 cm. long.....	47.0	0.176			Abundant root hairs, secondary roots	0.102			
18.11.1924	Open, 27 cm.....	43.0	0.195			Absorptive tissue with root hairs, secondary roots	0.083			
26.11.1924	Half open, 20 cm. long....	47.0	0.211			Abundant root hairs, secondary roots	0.104			
8.12.1924	Open, 24 cm. long.....	40.0	0.306	50.0	0.176	Abundant root hairs.....	0.100			
17.12.1924	Open, 30 cm. long.....	48.0	0.232	57.0	0.196	Root hairs and secondary roots	0.085			
29.12.1924	Open, 30 cm. long.....			45.0	0.178	Thick absorptive tissue with root hairs, secondary roots	0.070	Very young haulms, (a) and haulms just out of sheaf (b)	(a) 0.214 (b) 0.230	
5.1.1925	Rolled and dry, 25 cm. long			51.0	0.230	Dry root hairs.....	0.084	Haulms just out of sheath..	0.273	
12.1.1925	Open, 19 cm. long.....			43.0	0.171	Dry absorptive tissue with root hairs	0.062	Spikes before flowering.....	0.183	0.288
19.1.1925	Fairly fresh.....			47.0	0.171	Absorptive tissue.....	0.099	Spikes before flowering.....	0.117	0.240
26.1.1925	Rolled, tip dry 20 cm. long.			52.0	0.129	Dry, no absorptive tissue nor root hairs, few secondary roots	0.075	Spikes before flowering.....	0.113	0.189

TABLE V—(continued).

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ % of Stalks.	P ₂ O ₅ % of Spikes.
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
3.2.1925	Open 19. cm. long.....			50.0	0.197	Dry absorptive tissue without root hairs	0.063	Spikes seeding.....	0.163	0.237
10.2.1925	Open and fresh.....			50.0	0.172	Fresh absorptive tissue covered with soil	0.094	Spikes young.....	0.132	0.253
17.2.1925	Open and fresh.....			42.0	0.277	Thick removable tissue.....	0.119	Spikes young.....	0.162	0.250
25.2.1925	Rolled.....			67.0	0.205	Dry absorptive, tissue thin..	0.092	Spikes before flowering.....	0.091	0.174
10.3.1925	Open, fresh.....			35.0	0.179	Thick absorptive tissue with root hairs, new roots	0.072	Spikes before flowering.....	0.171	0.230
20.3.1925	Open.....			46.0	0.200	Thick absorptive tissue with root hairs	0.074	Spikes before flowering.....	0.112	0.200
30.3.1925	Open.....			40.0	0.375	Absorptive tissue with root hairs	0.095	Spikes flowering.....	0.125	0.230
9.4.1925	Open.....			45.0	0.246	Absorptive tissue with root hairs	0.091	Spikes flowered.....	0.091	0.203
20.4.1925	Open.....			43.0	0.230	Absorptive tissue with root hairs	0.080	Spikes after flowering.....	0.091	0.189
4.5.1925	Open.....			40.0	0.223	Absorptive tissue with root hairs	0.106	Spikes empty or with shrivelled seeds	0.090	0.273
15.5.1925	Open.....			45.0	0.210	Absorptive tissue.....	0.136	Spikes empty.....	0.057	0.128
29.5.1925	Green leaves, open.....			44.0	0.183	Good absorptive tissue.....	0.081	Stalks yellow, spikes empty.	0.035	0.179
15.6.1925	New green leaves since rain	45.0	0.250			Absorptive tissue with root hairs	0.098	Spikes and stalks yellow....	0.051	0.127
29.6.1925	Brown leaves.....			brown	0.125					
	Green leaves open, brown leaves	45.0	0.261	brown	0.102	Absorptive tissue with root hairs	0.098	Haulms dry.....	0.082	
13.7.1925	New green leaves open brown leaves	42.0	0.319	brown	0.142	Absorptive tissue with root hairs	0.123	Haulms dry.....	0.082	
27.7.1925	Few new green leaves, open	37.0	0.349			Almost no absorptive tissue, secondary roots	0.137	Haulms dry.....	0.099	
4.8.1925	Brown leaves.....				0.138					
	New leaves half rolled, brown leaves	43.0	0.341	brown	0.098	Removable tissue with root hairs	0.096	Haulms dry.....	0.099	

TABLE VI.

Chrysopogon serrulatus, Armoedsvlakte. Phosphorus content as percentage phosphoric oxide on dry matter throughout the year.

Date.	Leaves.				Roots.		Stalks and Spikes.				
	Remarks.	Young.		Full-grown.		Remarks.	Roots. P ₂ O ₅ . %	Remarks.	Stalks. P ₂ O ₅ . %	Spikes. P ₂ O ₅ . %	
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %						
4. 9.1924	Mostly folded, 2.5-3.5 cm. long	35.0	0.260			Removable tissue without hairs	0.200				
10. 9.1924	Open, 6 cm. long.....	40.0	0.300			Secondary roots, no root hairs	0.111				
19. 9.1924	Folded, 3-5 cm. long, apex dry	30.0	0.250			Secondary roots, no root hairs	0.106				
29. 9.1924	Folded.....	30.0	0.273			Secondary roots.....	0.150				
2. 10.1924	Open, 10 cm. long, fresh....	33.0	0.230			Secondary roots, no root hairs	0.120				
14. 10.1924	Folded, some leaves with wrinkled edges, 18 cm. long	36.0	0.326			Roots all hard and woody, no root hairs	0.125				
21. 10.1924	Folded and very withered, 17 cm. long	29.0	0.263			Dry, no secondary roots or root hairs	0.103				
28. 10.1924	Folded and wrinkled, up to 25 cm. long	45.0	0.200			Dry, no secondary roots or root hairs	0.115	Young spikes, young haulms before coming out of sheath	0.2	54	
31. 10.1924	Half open, up to 25 cm. long	41.0	0.300			Very fresh, root hairs and secondary roots	0.139				0.220
11. 11.1924	Open, 40 cm. long.....	30.0	0.462			Absorptive tissue full of water, root hairs and secondary roots	0.163				
18. 11.1924	Folded, 27 cm. long.....	45.0	0.385	45.0	0.341	Root hairs and secondary roots	0.156				
26. 11.1924	Half open, 21 cm. long....	40.0	0.273	42.0	0.195	Secondary roots.....	Lost	Very young haulms, flowering spikes	0.2	54	
8. 12.1924	Half open, 23 cm. long....	25.0	0.222	43.0	0.250	Root hairs and secondary roots	0.127		Flowering spikes, red.....	0.230	0.375 0.268
17. 12.1924	Open, 25 cm. long.....	30.0	0.275	35.0	0.248	Rather dry, secondary roots	0.102				
29. 12.1924	Half folded, wrinkled, 28 cm. long	30.6	0.333	40.0	0.230	Very dry, no root hairs.....	0.084	Flowering spikes with little pollen	0.230	0.227	
5. 1.1924	Folded, 25 cm. long.....	37.0	0.273	42.0	0.174	Very dry, no root hairs, absorptive tissue peeling off, few secondary roots	0.083	Spikes with most pollen lost	0.151	0.300	
12. 1.1925	Folded, 21 cm. long.....	36.0	0.194	41.0	0.160	Very dry, thin absorptive tissue, no root hairs	0.079	Spikes after flowering, damaged by locusts	0.095	0.167	
19. 1.1925	Folded but fairly fresh, 25 cm. long	38.0	0.214	43.0	0.227	Dry, absorptive tissue nearly all off, no root hairs	Lost	Spikes seeded, seeds dough..	0.073	0.208	
26. 1.1925	Folded and drooping, 35 cm. long			53.0	0.171	Dry and thick, absorptive tissue thin, peeling off	0.082	Spikes seeded, seeds soft....	0.095	0.165	
8. 2.1925	Folded.....	35.0	0.357	65.0	0.259	Dry and hard, hardly any absorptive tissue	0.134	Spikes mostly without seeds; some still seeding, seeds soft	0.196	0.200	

TABLE VI—(continued).

Date.	Leaves.					Roots.		Stalks and Spikes.		
	Remarks.	Young.		Full-grown.		Remarks.	Roots. P ₂ O ₅ . %	Remarks.	Stalks. P ₂ O ₅ . %	Spikes. P ₂ O ₅ . %
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
10. 2.1925	Open.....	33·0	0·254	42·0	0·211	Roots without any absorptive tissue, or with only a thin membrane	0·094	No ripe seeds in spike....	0·115	0·195
17. 2.1925	Old and young leaves open.	33·0	0·273	37·0	0·237	Removable membrane (not tissue) without hairs, secondary roots	0·097	Very young haulms; middle-aged haulms old stalks— Young..... Middle..... Old.....	0·125 0·125 0·053	0·360 0·203
25. 2.1925	Folded and drooping.....	40·0	0·240	45·0	0·155	Thin removable skin without root hairs	0·068	Old stalks without spikes; middle-aged haulms— Middle..... Old.....	0·142 0·058 0·240	0·208 0·192
10. 3.1925	Open.....	27·0	0·375	38·0	0·286	New roots with absorptive tissue	0·113	Spikes flowering.....	0·240	0·192
20. 3.1925	Open.....	27·0	0·441	36·0	0·250	Dry absorptive tissue.....	0·110	Spikes with shrivelled seeds.	0·089	0·171
30. 3.1925	Open.....	27·0	0·319	35·0	0·207	New roots, root hairs on absorptive tissue	0·088	New haulms, spikes flowering	0·131	0·273
9. 4.1925	Open.....	27·0	0·333	35·0	0·200	Absorptive tissue with root hairs	0·098	Spikes flowering.....	0·100	0·200
20. 4.1925	Half folded.....	30·0	0·250	33·0	0·208	Dry absorptive tissue, no root hairs	0·075	Spikes flowered.....	0·110	0·217
4. 5.1925	Half open.....	30·0	0·286	40·0	0·184	Absorptive tissue with root hairs	0·101	Spikes dying.....	0·067	0·204
15. 5.1925	Leaves soft, nearly open, but drying out, no young leaves			42·0	0·300	Secondary roots, scarcely any absorptive tissue	0·107	Spikes with unripe seeds....	0·136	0·268
29. 5.1925	Open, apex dry.....			30·0	0·203	No absorptive tissue.....	0·080	Stalks without spikes.....	0·053	
15. 6.1925	Few green leaves, folded, came up after rain, brown leaves	40·0	0·159	Brown	0·053	Some absorptive tissue.....	0·087	Stalks without spikes.....	0·040	
29. 6.1925	Few green leaves, folded, brown leaves	40·0	0·192	„	0·077	Roots dry and hard, with absorptive tissue	0·103	Stalks without spikes.....	0·027	
13. 7.1925	Only brown leaves.....			„	0·074	Roots dry and hard, no absorptive tissue	0·112	Stalks without spikes.....	0·034	
27. 7.1925	Only brown leaves.....			„	0·060	Roots hard and woody, no absorptive tissue	0·134	Dry haulms.....	0·030	
4. 8.1925	A few green leaves, open...	30·0	0·349	„	0·099	Thick with abundant secondary roots, no absorptive tissue or root hairs	0·132			

TABLE VII.

Fingerhuthia africana, Armoedsvlakte. Phosphorus content as percentage phosphoric oxide on dry matter throughout the year.

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ % of Stalks.	P ₂ O ₅ % of Spikes.
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
4. 9.1924	Scarce, mostly rolled.....	40.0	0.230			Removable tissue without hairs	0.115			
10. 9.1924	Red and very short, rolled at apex	45.0	0.208			Few root hairs.....	0.075			
19. 9.1924	Rolled, 5-7 cm. long, apex dry	47.0	0.214			Few root hairs.....	0.070			
29. 9.1924	Open, after rain.....	41.0	0.263			Root hairs and secondary roots	0.077			
2. 10.1924	Open, 11 cm. long.....	35.0	0.263			Root hairs and secondary roots	0.065			
14. 10.1924	Some open, some half-rolled, 8-9 cm. long	45.0	0.233			Few root hairs.....	0.088			
21. 10.1924	Some open, but most rolled, 9-14 cm. long	37.0	0.260			Root hairs.....	0.125			
28. 10.1924	Some open, some rolled, brown at tip, up to 15 cm. long	53.0	0.205			Root hairs and secondary roots	0.098			
31. 10.1924	Open, up to 17 cm. long....	50.0	0.185			Root hairs and secondary roots	0.089			
11. 11.1924	Open, 20 cm. long.....	40.0	0.326	45.0	0.230	Abundant root hairs.....	0.121			
18. 11.1924	Open, dry at tip, 20 cm. long	40.0	0.300	50.0	0.254	Root hairs and secondary roots	0.106			
26. 11.1924	Partly rolled, 20 cm. long..	51.0	0.240	50.0	0.242	Root hairs and secondary roots	0.115			
8. 12.1924	Open, fresh, 20 cm. long....	39.0	0.200	47.0	0.145	Absorptive tissue very thick in parts, with root hairs, secondary roots	0.086			
17. 12.1924	Open, 22 cm. long.....	48.0	0.319	50.0	0.261	New roots with root hairs, secondary root	0.104			
29. 12.1924	Bolled, 24 cm. long.....	49.0	0.283	50.0	0.200	Absorptive tissue peeling off, root hairs and secondary roots	0.093			
5. 1.1925	Bolled and withered, 15 cm. long	50.0	0.217	56.0	0.211	Dry, no root hairs, secondary roots	0.106			
12. 1.1925	Rather wilted, 16 cm. long..	48.0	0.187	55.0	0.160	Dry, absorptive tissue peeling off	0.075			
19. 1.1925	Bolled and rather dry, 22 cm. long			65.0	0.160	Dry, small amount of ab- sorptive tissue at base of root without root hairs	0.084			

TABLE VII—(continued).

Date.	Leaves.				Roots.		Stalks and Spikes.				
	Remarks.	Young.		Full-grown.		Remarks.	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ % of Stalks.	P ₂ O ₅ % of Spikes.	
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %						
26. 1. 1925	Half open, but dry, 18 cm. long			55.0	0.124	A very little dry absorptive tissue	0.072				
3. 2. 1925	Open, 29 cm. long.....	60.0	0.240	60.0	0.137	Dry, roots in places thick, with absorptive tissue	0.097				
10. 2. 1925	Open, grey green, young leaves rolled, brighter green	47.0	0.233	55.0	0.173	Removable, but smooth tissue	0.078				
17. 2. 1925	All leaves except youngest open	35.0	0.277	43.0	0.180	Removable tissue.....	0.067				
25. 2. 1925	Rolled, but fairly fresh.....	58.0	0.171	63.0	0.134	Absorptive tissue peeling off, no root hairs	Lost				
10. 3. 1925	Open.....	38.0	0.283	47.0	0.178	Root hairs on absorptive tissue, new roots	0.058				
20. 3. 1925	Open.....	34.0	0.375	45.0	0.250	Absorptive tissue, root hairs	0.064	Young spikes, finished	flowering	0.080	0.176
30. 3. 1925	Open.....	40.0	0.293	48.0	0.185	Absorptive tissue, root hairs	0.054	Spikes before	flowering	0.221	0.399
								Spikes after	flowering	0.109	0.257
9. 4. 1925	Open.....	41.0	0.244	48.0	0.187	Absorptive tissue with root hairs	0.062	Spikes before	flowering	0.114	0.217
20. 4. 1925	Open.....	42.0	0.233	50.0	0.173	Absorptive tissue without root hairs	0.066	Spikes after	flowering.....	0.132	0.245
4. 5. 1925	Old leaves open, young leaves rolled	40.0	0.214	45.0	0.291	Absorptive tissue with a few root hairs	0.057	Spikes mostly empty, a few seeds left		0.115	0.303
15. 5. 1925	Leaves red and open, too few young leaves for analysis			45.0	0.202	Absorptive tissue.....	0.084	Spikes decaying.....		0.072	0.285
29. 5. 1925	Green leaves open, brown leaves abundant—										
	Green leaves.....			47.0	0.242	Absorptive tissue partly good and partly shrunk	0.075	Spikes empty or fallen off...		0.091	0.213
	Brown leaves.....				0.068						
15. 6. 1925	Green leaves rolled, partly new—			60.0	0.211	No absorptive tissue.....	0.072	Spikes dry, stalks green at bottom and yellow at top		0.068	0.119
	Green leaves.....				0.106						
	Brown leaves.....										
29. 6. 1925	Green leaves rolled, partly new—			55.0	0.187	No absorptive tissue.....	0.102	Spikes dry, stalks green at bottom			0.086
	Green leaves.....				0.040						
	Brown leaves.....										

TABLE VII—(continued).

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ % of Stalks.	P ₂ O ₅ % of Spikes.
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
15. 7. 1925	Green leaves rolled— Green leaves..... Brown leaves.....			55.0	0.220 0.072	New absorptive tissue.....	0.088	Spikes dry and falling off, stalks dry, green at bottom	0.0	60
27. 7. 1925	Green leaves with some new ones— Green leaves..... Brown leaves.....			55.0	0.192 0.056	Some roots with absorptive tissue and fine root hairs	0.068	Stalks dry, green at extreme bottom	0.0	49
4. 8. 1925	Young green leaves scarce, a few old ones Brown leaves.....	46.0	0.268		0.085	Well developed hairy re- movable tissue	0.117			

TABLE VIII.

Sporobolus fimbriatus, Armoedsvalakte. Phosphorus content as percentage phosphoric oxide on plant dry matter throughout the year.

Date.	Leaves.					Roots.		Stalks and Spikes.		
	Remarks.	Young.		Full-grown.		Remarks.	Roots. P ₂ O ₅ . %	Remarks.	Stalks. P ₂ O ₅ . %	Spikes. P ₂ O ₅ . %
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
4.9.1924	Rolled.....	45.0	0.155			Without removable tissue...	0.131			
10.9.1924	Open, 6 cm. long.....	30.0	0.400			No root hairs but fine secondary roots	0.210			
19.9.1924	Rolled.....	45.0	0.200			Fairly fresh with small secondary roots	0.097			
25.9.1924	Open, 6-8 cm. long.....	31.0	0.250			Many secondary roots.....	0.211			
2.10.1924	Abundant, short open leaves	24.0	0.349			Secondary roots.....	0.101			
14.10.1924	Slightly withered, 22-34 cm. long	34.0	0.312			Secondary roots.....	0.089			
31.10.1924	Rolled, tip dry, to 25 cm. long	31.0	0.200			Secondary roots.....	0.115			
28.10.1924	Open, but slightly withered, tip dry, to 25 cm long	52.0	0.200			Dry, but with secondary roots	0.082			
31.10.1924	Open, 30-32 cm. long.....	48.0	0.260			Root hairs at the basis of the root, secondary roots	0.123	(3.11) Young haulms.....	0.300	0.417
11.11.1924	Old leaves open, 30 cm. long	39.0	0.349	42.0	0.285	Root hairs at the basis of the root, secondary roots	0.102	Young haulms with spikes, not separated	0.288	
18.11.1924	Open, dry tips, 30 cm. long.	43.0	0.300	43.0	0.263	Few root hairs at the basis of the roots, secondary roots	0.106	Flowering spikes, young haulms not separated	0.333	0.263 0.319
26.11.1924	Partly rolled, 24 cm. long...	50.0	0.230	50.0	0.250	Root hairs at basis, secondary roots	0.132			
8.12.1924	Open, fresh, 35 cm. long....	35.0	0.232	44.0	0.210	Abundant root hairs and secondary roots	0.101			
17.12.1924	Open, 30 cm. long.....	32.0	0.357	35.0	0.286	Some new roots with root hairs, secondary roots	0.114			
29.12.1924	Open, 30-35 cm. long.....	45.0	0.273	50.0	0.259	Thin dry removable skin, no root hairs	0.094	Flowering spikes.....	0.189	0.375
5.1.1925	Rolled and dry, 30 cm. long.	49.0	0.233	47.0	0.230	Dry, very thin removable skin, no root hairs, few secondary roots	0.121	Spikes just flowered.....	0.153	0.254
12.1.1925	Open, damaged by locusts..	45.0	0.162	51.0	0.176	Dry thin removable skin without root hairs, secondary roots	0.064	Spikes seeding, damaged by locusts	0.070	0.230
19.1.1925	Green leaves dry, many dead leaves No young leaves, brown leaves			57.0	0.200	Very dry, almost no removable skin, no root hairs	0.068	Spikes seeding, seeds unripe.	0.074	0.375
				93.0	0.069					

TABLE VIII—(continued).

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	Roots. P ₂ O ₅ . %	Remarks.	Stalks. P ₂ O ₅ . %	Spikes. P ₂ O ₅ . %
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
26.1.1925	Open, but dry, some rolled, 20 cm. long			52.0	0.170	Dry, no absorptive tissue nor root hairs	0.082	Seeds have nearly all fallen off, brown stalks	0.079	0.148
3.2.1925	Open, 50 cm. long	50.0	0.200	52.0	0.207	Dry, no absorptive tissue nor root hairs	0.084	Spikes nearly empty, but still some hard seeds	0.235	0.230
10.2.1925	Open, young leaves rolled	50.0	0.214	51.0	0.187	Thin removable skin	0.115	Spikes with hard yellow seeds	0.055	0.337
17.2.1925	Old leaves open, young leaves rolled	33.0	0.220	41.0	0.162	Secondary roots, removable tissue	0.079	Yellow stalks, spikes with some shrivelled seeds	0.144	0.120
25.2.1925	Rolled, tip dry	62.0	0.224	66.0	0.254	Dry and without removable skin	0.069	Spikes nearly empty, stalks yellow	0.040	
10.3.1925	Open	27.0	0.300	41.0	0.277	Absorptive tissue	0.069	Spikes seeding, but green, young	0.125	0.429
20.3.1925	Open	32.0	0.300	35.0	0.266	Very little absorptive tissue with root hairs	0.048	Spikes before flowering	0.150	0.385
30.3.1925	Open	38.0	0.283	36.0	0.254	New roots, absorptive tissue with root hairs	0.107	Spikes flowering	0.137	0.333
9.4.1925	Open	40.0	0.319	40.0	0.268	Thin absorptive skin, few root hairs	0.122	Spikes with unripe seeds	0.215	0.349
20.4.1925	Half open	40.0	0.230	40.0	0.207	Thin absorptive skin, few root hairs	0.073	Young green haulms	0.073	0.263
4.5.1925	Open	35.0	0.333	40.0	0.277	Removable tissue without root hairs	0.074	Spikes with few seeds	0.170	0.268
15.5.1925	Old leaves red, open, no young leaves could be found			41.0	0.217	Thick absorptive tissue	0.082	Spikes with few unripe seeds, others fallen off	0.054	0.073
29.5.1925	Green leaves open			35.0	0.241	Part with thick absorptive tissue, part without any	0.081	No spikes	0.035	
15.6.1925	Brown leaves Few rolled green leaves, new brown leaves	45.0	0.185	brown	0.084 0.062	No absorptive tissue	0.123	No spikes, only stalks	0.035	
29.6.1925	Few rolled green leaves	47.0	0.230	brown	0.067	No absorptive tissue	0.125	Stalks only	0.052	
13.7.1925	Very few green leaves, rolled brown leaves			50.0	0.242	No absorptive tissue, secondary roots	0.115	Stalks only	0.087	
27.7.1925	Old green leaves, rolled brown leaves			50.0	0.240	At root basis a little absorptive tissue	0.115	Haulms with few spikes	0.047	
4.8.1925	Young green leaves, scarce, some with apex dry; brown leaves	38.0	0.357	brown	0.093 0.100	No absorptive tissue, nor root hairs	0.120	No haulms		

TABLE IX.

Aristida congesta, Armoedsvlakte. Phosphorus content as percentage phosphoric oxide on dry matter throughout the year.

Date.	Leaves (Young and Old Leaves mixed).			Roots.		Stalks and Spikes.		
	Remarks.	Dry Matter. %	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ % of Stalks.	P ₂ O ₅ % of Spikes.
4. 9.1924	Leave rolled, to 5 cm. long....	49.0	0.183	Removable tissue.....	0.143			
10. 9.1924	Rolled, 5-8 cm. long.....	50.0	0.194	Removable tissue with some roots hair	0.111			
19. 9.1924	Hard rolled, 10 cm. long.....	32.0	0.180	Root hair	0.111			
26. 9.1924	Rolled, 16 cm. long, after rain..	47.0	0.263	Secondary root	0.130			
2.10.1924	Mostly open, leaves abundant...	45.0	0.240	Secondary root and root hair ...	0.111			
14.10.1924	Rolled, 8-12 cm. long.....	47.0	0.233	Few root hair	0.115			
21.10.1924	Rolled, 8-12 cm long.....	47.0	0.260	Dry, not root hair nor secondary roots	0.100			
28.10.1924	Rolled, tip brown, 16 cm. long..	65.0	0.167	Root hair and few secondary roots	0.107			
31.10.1924	Half folded, 14-15 cm. long.....	59.0	0.230	Root hair and few secondary roots	0.107	(6.11.1924) Spikes and young stalks	0.268	0.283
11.11.1924	Open, 18-20 cm. long.....	46.0	0.183	Root hairs and secondary roots...	0.090	Very young haulms with spikes..	0.294	
18.11.1924	Rolled, 20 cm. long.....	50.0	0.208	Some new roots, root hair	0.115	(26.11.24) Flowering spikes.....		0.280
26.11.1924	Rolled, 23 cm. long.....	58.0	0.208	Root hairs and secondary roots...	0.114			
8.12.1924	Open fresh, 25 cm. long.....	49.0	0.219	Root hairs and secondary roots...	0.091			
17.12.1924	Open, 27 cm. long.....	57.0	0.184	Rather dry, secondary roots.....	0.104			
20.12.1924	Half rolled, 22 cm. long.....	53.0	0.214	Very dry, no root hair, secondary roots	0.104	Spikes before flowering.....	0.195	0.250
5. 1.1925	Rolled and dry, 16 cm. long....	66.0	0.167	Dry, removable skin peeling off, no root hairs	0.100	Spikes before flowering.....	0.159	0.283
12. 1.1925	Rolled and dry, 13 cm. long....	77.0	0.117	Dry, no root hairs.....	0.099	Spikes after flowering, not seeded	0.100	0.208
19. 1.1925	Rolled and rather dry, 22 cm. long	62.0	0.182	Dry, almost no removable tissue, no root hairs	0.087	Spikes after flowering.....	0.087	0.312
26. 1.1925	Rolled and dry, 14 cm. long....	47.0	0.156	Dry, loose absorptive tissue, no root hairs	0.084	Spikes with ripe seeds, some already fallen	0.077	0.280
3. 2.1925	Open, 14 cm. long.....	61.0	0.162	Dry, no absorptive tissue nor root hairs	0.079	Spikes with ripe seeds, most already fallen	0.090	0.200
10. 2.1925	Rather dry, few green leaves, open	62.0	0.176	Absorptive tissue, without root hairs	0.082	Spikes with ripe seeds, most already fallen	0.093	0.203
17. 2.1925	Few nearly closed leaves.....	52.0	0.207	Absorptive tissue removable.....	0.131	Ripe seeds, but most already fallen out	0.100	0.205
25. 2.1925	Rolled, dry at tip.....	75.0	0.176	Dry, absorptive tissue peeling off	0.072	Few ripe seeds still in spikes, young haulms—		
						Young.....	0.122	0.207
						Old.....	0.133	0.180

TABLE IX—(continued).

Date.	Leaves (Young and Old Leaves mixed).			Roots.		Stalks and Spikes.		
	Remarks.	Dry Matter. %	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ . % of Stalks.	P ₂ O ₅ . % of Spikes.
10. 3.1925	Open, new leaves.....	47·0	0·312	Absorptive tissue with root hairs.	0·096	Spikes with unripe seeds.....	0·162	0·260
20. 3.1925	Open.....	53·0	0·176	Absorptive tissue with root hairs.	0·066	Seeding spikes.....	0·081	0·207
30. 3.1925	Half open.....	50·0	0·195	Thin absorptive tissue with root hairs	0·088	Spikes seeding.....	0·110	0·169
9. 4.1925	Half open.....	50·0	0·259	Thin absorptive tissue with root hairs	0·084	Spikes before flowering.....	0·132	0·200
20. 4.1925	Rolled, dry.....	50·0	0·323	Thin absorptive tissue.....	0·072	Spikes with ripe seeds, but most fallen	0·088	0·143
4. 5.1925	Open.....	43·0	0·233	With absorptive tissue.....	0·093	Spikes dry with seeds.....	0·116	0·306
15. 5.1925	Green leaves.....	53·0	0·230	Very thin absorptive tissue, many roots without	0·090	No seeds in spikes.....	0·065	0·120
29. 5.1925	Rolled, some young leaves.....	49·0	0·205	Scarcely any absorptive tissue....	0·102	Empty spikes.....	0·081	0·158
15. 6.1925	New leaves open, brown leaves..	46·0	0·250	No absorptive tissue.....	0·114	Empty spikes.....	0·074	0·093
	Brown leaves.....		0·071					
29. 6.1925	No green leaves, brown leaves...		0·070	No absorptive tissue.....	0·115	Empty spikes.....	0·058	0·158
13. 7.1925	New green leaves, open.....	50·0	0·277	No absorptive tissue.....	0·087	Empty spikes.....	0·084	0·082
	Brown leaves.....		0·070					
27. 7.1925	New green leaves.....	30·0	0·300	Little absorptive tissue, no root hairs	0·095	Haulms dry.....	0·073	
	Brown leaves.....		0·111					
4. 7.1925	Few new green leaves, rolled....	50·0	0·273	Thin removable tissue with fine root hairs	0·084			
	Brown leaves.....		0·083					

TABLE X.

Aristida uniplumis, Armoedsvlakte. Phosphorus content as percentage phosphoric oxide on dry plant material throughout the year.

Date.	Leaves.			Roots.		Stalks and Spikes.		
	Remarks.	Dry Matter.	P ₂ O ₅ .	Remarks.	P ₂ O ₅ .	Remarks.	P ₂ O ₅ % of Stalks.	P ₂ O ₅ % of Spikes.
		%	%		%			
29. 7. 1924	Old leached grey leaves..... Brown leaves.....		0.125 0.080	Removable tissue without root hairs	0.125	Very old, leached grey..... Upper part of last year's } Brown haulms brown, bottom } part green.....	0.047 0.105	
30. 8. 1924	New green leaves, rolled.....		0.230	Removable tissue without root hairs	0.159	} Green 0.140		
10. 9. 1924	Rolled, 6 cm. long.....	42.5	0.200	Some root hairs at top of root...	0.196			
19. 9. 1924	Rolled, hard, hairy at apex, 15-20 cm. long	45.0	0.187	Some root hairs, removable tissue	0.187			
25. 9. 1924	Mostly rolled, 26 cm. long.....	45.0	0.273	Secondary roots, removable tissue	0.159			
2. 10. 1924	Open, fairly long.....	42.0	0.230	Root hairs and secondary roots, removable tissue	0.091			
14. 10. 1924	Half-rolled, 12-15 cm. long.....	40.0	0.268	Some secondary roots, removable tissue	0.134			
21. 10. 1924	Some open, but most rolled, 18 cm. long	35.0	0.268	No root hairs or secondary roots, removable tissue	0.130			
28. 10. 1924	Rolled, up to 25 cm. long.....	63.0	0.189	No root hairs or secondary roots, removable tissue	0.215	Green haulms, young flowering spikes	0.159	0.288
31. 10. 1924	Open, up to 22 cm. long.....	40.0	0.246	No root hairs nor secondary roots, removable tissue	0.130			
11. 11. 1924	Open, 18 cm. long.....	46.0	0.233	Thick soft roots, root hairs and secondary roots	0.092	Very young spikes.....		0.341
18. 11. 1924	Open, 22 cm. long.....	40.0	0.319	Some new roots with root hairs on removable tissue	0.150			
	Small leaves in tufts on previous years' haulms, again green in colour	40.0	0.195	Secondary roots				
26. 11. 1924	Half open, 22 cm. long.....	50.0	0.197	Removable tissue, root hairs and secondary roots	0.123	Young haulms.....	0.2	83
8. 12. 1924	Open, 20 cm. long.....	54.0	0.205	Removable tissue with root hairs.	0.079			
7. 12. 1924	Open, 20 cm. long.....	48.0	0.263	Rather dry removable tissue, secondary roots	0.084			
30. 12. 1924	Half folded, 16 cm. long.....	51.0	0.192	Dry removable tissue with a few root hairs on top, secondary roots	0.104	Spikes beginning to flower.....	0.160	0.280

TABLE X—(continued).

Date.	Leaves.			Roots.		Stalks and Spikes.		
	Remarks.	Dry Matter.	P ₂ O ₅ .	Remarks.	P ₂ O ₅ .	Remarks.	P ₂ O ₅ % of Stalks.	P ₂ O ₅ % of Spikes.
		%	%		%		%	
5. 1.1925	Rolled, 15 cm. long.....	55·0	0·192	Absorptive tissue peeling off, dry, no root hairs	0·115	Spikes with no pollen.....	0·259	0·195
12. 1.1925	Rolled, partially eaten by locusts	51·0	0·146	Absorptive tissue peeling off, dry, no root hairs	0·089	Spikes seeding, but soft and green.	0·128	0·140
19. 1.1925	Rolled, 10 cm. long.....	57·0	0·196	Absorptive tissue peeling off, dry, no root hairs	0·102	Spikes seeding, but soft ; styles long and feathery	0·107	0·174
26. 1.1925	Rolled, but fairly fresh, 18 cm. long	55·0	0·107	Absorptive tissue in parts intact, but dry and woolly, better than on 19.1.1925	0·038	Styles still in spikes, but most seed fallen	0·087	0·268
3. 2.1925	Open, 15 cm. long.....	51·0	0·205	A very little dry absorptive tissue, no root hairs	0·072	Seeds still in spikes, soft.....	0·226	0·154
10. 2.1925	Open, dry at tip.....	52·0	0·192	Dry absorptive tissue peeling off, no root hairs	0·090	Spikes without seeds or styles....	0·089	0·125
17. 2.1925	Half rolled.....	50·0	0·200	Absorptive tissue very well de- veloped	0·118	Haulms green ; spikes with styles..	0·125	0·162
25. 2.1925	Half rolled, dry at tip.....	60·0	0·130	Dry, no absorptive tissue.....	0·090	Haulms green ; spikes empty and dry	0·107	0·147
10. 3.1925	Open.....	45·0	0·288	New roots, little absorptive tissue	0·058	Haulms green ; some styles remaining	0·113	0·143
20. 3.1925	Open.....	43·0	0·187	No absorptive tissue or root hairs	0·068	Spikes empty and dry.....	0·127	0·127
30. 3.1925	Open.....	48·0	0·173	No absorptive tissue, new roots..	0·057	Spikes empty and dry.....	0·118	0·146
9. 4.1925	Half open.....	50·0	0·214	Absorptive tissue with a few root hairs	0·100	Spikes empty and dry.....	0·137	0·124
20. 4.1925	A very few green leaves, rolled..	47·0	0·194	Dry absorptive tissue, no root hairs	0·078	Spikes empty and dry.....	0·117	0·183
4. 5.1925	A few green leaves, open.....	38·0	0·244	Some absorptive tissue with root hairs	0·078	Upper part of stalk dry ; spikes dry	0·101	0·169
15. 5.1925	A few green leaves, rolled.....	45·0	0·252	Very little absorptive tissue—some roots without	0·116	Dry stalks and spikes.....	0·113	0·192
29. 5.1925	A few green leaves, rolled.....	55·0	0·120	Roots without absorptive tissue...	0·088	Stalks yellow above, green at bottom	0·064	0·111
	Brown leaves.....		0·062			Stalks green at bottom, dry above ; spikes dry	0·070	0·111
15. 6.1925	Young green leaves after rain..	47·0	0·200	No absorptive tissue, secondary roots	0·127			
29. 6.1925	No green, a few brown leaves...		0·041	Dry, no absorptive tissue.....	0·139	Stalks green at bottom ; spikes dry	0·075	0·098
13. 7.1925	No green, a few brown leaves...		0·063	Dry, no absorptive tissue.....	0·121	Stalks green at bottom ; spikes dry	0·048	0·114
27. 7.1925	No green, a few brown leaves...		0·067	Thick, with little absorptive tissue	0·104	Haulms dry, but green at base.....	0·060	
4. 8.1925	A few-green leaves, rolled.....	35·0	0·230	A little absorptive tissue without root hairs.	0·112			
	Brown leaves.....		0·085	No secondary roots.....				

TABLE XI.

Anthephora pubescens, Armoedsvlakte. Phosphorus content as percentage phosphoric oxide on dry plant matter throughout the year.

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown		Remarks.	Roots. P ₂ O ₅ . %	Remarks.	Stalks. P ₂ O ₅ . %	Spikes. P ₂ O ₅ . %
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
10.9.1924	1-3 cm. long, half folded..	25.0	0.230			Removable tissue without hairs	0.170			
19.9.1924	Slightly withered.....	30.0	0.375			Dry roots without root hairs.	0.108			
29.9.1924	Open after rain.....	28.0	0.273				0.139			
2.10.1924	Open, 10 cm. long, fresh-looking	25.0	0.260			Root hairs and a few secondary roots	0.084			
14.10.1924	Slightly withered, 6-15 cm. long	30.0	0.242			Few root hairs and secondary roots	0.115			
21.10.1924	Partly folded, wrinkled edge, 7-8 cm. long	23.0	0.300			No root hairs nor secondary roots	0.094			young 0.263
28.10.1924	Open, but drooping, edge very wrinkled, 12 cm. long	37.0	0.242			No root hairs, secondary roots	0.083	Haulms with flowering and young spikes	0.220	flowering 0.250
31.10.1924	Open, fresh, 12-16 cm. long.	30.0	0.263			Root hairs and secondary roots	0.095			
11.11.1924	Open, fresh, old leaves 20 cm. long	25.0	0.326	25.0	0.312	Root hairs and secondary roots	0.095	{ Very young haulms with spikes, also flowering spikes }	0.345	0.280
18.11.1924	Open, 12 cm. long.....	25.0	0.326	30.0	0.306	Secondary roots.....	0.034			
26.11.1924	Open, wrinkled edge, 10 cm. long	40.0	0.254	38.0	0.254	Very thin dry absorptive tissue in parts, root hairs and secondary roots	0.121	{ Very young haulms, spikes and stalks before flowering }	0.277	0.306
8.12.1924	Open, 12 cm. long.....	24.0	0.330	34.0	0.211	Some new roots with root hairs, thin absorptive tissue	0.084			
17.12.1924	Open, 17 cm. long.....	27.0	0.242	36.0	0.254	Thick absorptive tissue, root hairs and secondary roots	0.103			
29.12.1924	Open, 13 cm. long.....	35.0	0.357	35.0	0.214	Thin absorptive tissue, no root hairs	0.104	Spikes at end of flowering...	0.240	0.319
5.1.1925	Withered, 14 cm. long.....	42.0	0.230	45.0	0.213	Dry, woolly absorptive tissue, no root hairs	0.104	Spikes after flowering.....	0.192	0.263
12.1.1925	Open, 12 cm. long.....	37.0	0.213	38.0	0.167	Thick woolly absorptive tissue, no root hairs	0.131	Spikes seeding.....	0.120	0.136
19.1.1925	Withered, 18 cm. long.....			55.0	0.286	Absorptive tissue peeling off, no root hairs	0.137	Spikes seeding, seeds soft...	0.208	0.195

TABLE XI—(continued).

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	Roots. P ₂ O ₅ . %	Remarks.	Stalks. P ₂ O ₅ . %	Spikes. P ₂ O ₅ . %
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
26.1.1925	Wilted, 16 cm. long.....			36.0	0.277	Dry, thin, shrunken absorptive tissue, no root hairs	0.089	Spikes losing seeds slowly...	0.096	0.202
3.2.1925	Rolled, 35 cm. long.....			35.0	0.237	No absorptive tissue or root hairs, secondary roots	0.110	Spikes losing seeds, seeds soft	0.107	0.210
10.2.1925	Nearly open.....	37.0	0.283	35.0	0.224		0.110	No ripe seeds, shrivelled....	0.090	0.263
17.2.1925	Old leaves half open.....	22.0	0.294	26.0	0.259	With removable tissue.....	0.126	Yellow stalks, green at bottom only, empty spikes falling off	0.092	0.183
25.2.1925	Rather wilted.....	37.0	0.405	39.0	0.300	Thick dry absorptive tissue.	0.156	Young spikes, before flowering	0.215	0.352
10.3.1925	Open and fresh.....	23.0	0.392	31.0	0.261	Absorptive tissue, new roots	0.102	Spikes just after flowering..	0.203	0.260
20.3.1925	Open and fresh.....	27.0	0.345	30.0	0.306	No absorptive tissue, new roots	0.084	Spikes with young seeds....	0.144	0.167
30.3.1925	Open.....	26.0	0.280	30.0	0.242	Thin removable skin, new roots, root hairs	0.113	Spikes with young seeds....	0.195	0.291
9.4.1925	Open.....	27.0	0.257	30.0	0.273	Absorptive tissue, new roots, root hairs	0.107	Spikes before flowering.....	0.175	0.283
20.4.1925	Half open.....	30.0	0.261	30.0	0.273	Absorptive tissue, few root hairs	0.086	Spikes after flowering.....	0.109	0.207
4.5.1925	Old leaves nearly open.....	25.0	0.300	27.0	0.280	Absorptive tissue, root hairs and new roots	0.107	Spikes after flowering.....	0.093	0.171
15.5.1925	Open leaves, no young leaves found			32.0	0.280	Absorptive tissue undeveloped	0.091	Spikes with unripe seeds....	0.086	0.176
29.5.1925	Scarcely a green leaf found, brown leaves plentiful	Brown	leaves:	30.0	0.159	Absorptive tissue.....	0.067	Stalks without spikes.....	0.064	
16.6.1925	No green leaves found, brown plentiful	"	"		0.069	Absorptive tissue.....	0.099	Stalks without spikes.....	0.031	
29.6.1925	No green leaves.....	"	"		0.052	Roots dry, absorptive tissue	0.100			
13.7.1925	No green leaves.....	"	"		0.079	Thin absorptive tissue with root hairs	0.114	No haulms found.....		
27.7.1925	No green leaves.....	"	"		0.089	Thick new absorptive tissue, with root hairs and secondary roots	0.088	No haulms found.....		
4.8.1925	Young leaves rolled and open	30.0 Brown	0.242 leaves		0.078	A few roots without removable tissue, but many root hairs	0.094			

TABLE XII.

Eragrostis Lehmanniana, Armoedsvlakte. Phosphorus content as percentage phosphoric oxide on dry plant material throughout the year.

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	Roots. P ₂ O ₅ . %	Remarks.	Stalks. P ₂ O ₅ . %	Spikes. P ₂ O ₅ . %
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ O ₅ . %					
4. 9.1924	Rolled, up to 6 cm. long...	43.0	0.240			Removable tissue without hairs	0.195			
10. 9.1924	Old leaves open, young closed, 6-20 cm. long	43.0	0.250			Root hairs just at base of root	0.210			
19. 9.1924	10 cm. long, rolled.....	35.0	0.183			No root hairs.....	0.135			
26. 9.1924	Open, after rain.....	50.0	0.200			Root hairs and secondary roots	0.131			
2. 10.1924	Open, long.....	38.0	0.233			Root hairs and secondary roots	0.080			
14. 10.1924	Rolled, up to 30 cm. long..	41.0	0.277			Beautiful root hairs on removable tissue	0.105			
21. 10.1924	Tightly rolled, up to 18 cm. long	44.0	0.300			Root hairs at base of root...	0.107			
28. 10.1924	Rolled, 15-20 cm. long, brown at tip	61.0	0.230			Root hairs.....	0.123			
31. 10.1924	Open, up to 20 cm. long....	50.0	0.167			Root hairs and secondary roots	0.078			
11. 11.1924	Open, 20-25 cm. long.....	38.0	0.300	45.0	0.273	Abundant root hairs and secondary roots	0.080	Young haulms and spikes, not separated	0.3	49
18. 11.1924	Partly rolled, 17 cm. long...	47.0	0.273	50.0	0.230	Root hairs and secondary roots	0.114			
26. 11.1924	Open, brown at tip, 18 cm. long	48.0	0.240	45.0	0.246	Root hairs and secondary roots	0.104	Flowering spikes.....	0.196	0.300
8. 12.1924	Open, fresh, 15 cm. long....	25.0	0.273	37.0	0.178	Root hairs and secondary roots	0.122	Young haulms, flowering spikes	0.3	85
17. 12.1924	Open, 15 cm. long.....	46.0	0.283	48.0	0.214	Root hairs and secondary roots	0.117			0.357
29. 12.1924	Open, 12 cm. long.....			52.0	0.174	Thick absorptive tissue, root hairs and secondary roots	0.100	Spikes before flowering.....	0.158	0.375
5. 1.1925	Rolled, very dry.....			60.0	0.174	Absorptive tissue peeling off, no root hairs	0.078	Spikes after flowering.....	0.130	0.375
12. 1.1925	Open, 19 cm. long.....			48.0	0.118	Dry, very little absorptive tissue, no root hairs	0.070	Spikes seeding, somewhat damaged by locusts	0.163	0.230
19. 1.1925	Very dry and rolled, 13 cm. long			69.0	0.180	Dry, absorptive tissue peeling off	0.109	Seeds falling from spikes....	0.089	0.333

TABLE XII—(continued).

Date.	Leaves.				Roots.		Stalks and Spikes.			
	Remarks.	Young.		Full-grown.		Remarks.	Roots. P ₂ O ₅ . %	Remarks.	Stalks. P ₂ O ₅ . %	Spikes. P ₂ O ₅ . %
		Dry Matter. %	P ₂ O ₅ . %	Dry Matter. %	P ₂ P ₅ . %					
26. 1.1925	Rolled, 14 cm. long.....			62.0	0.137	Dry, woolly, absorptive tissue, no root hairs and few secondary roots	0.086	Stalks still green, Spikes losing seed	0.096	0.250
3. 2.1925	Rolled, 14 cm. long.....			50.0	0.233	Roots fresher, no absorptive tissue	0.067	Spikes with only a few seeds.	0.127	0.214
10. 2.1925	Nearly open.....			62.0	0.150	Good absorptive tissue, no root hairs	0.075	No seeds in spikes.....	0.163	0.230
17. 2.1925	Open leaves.....			42.0	0.246	Absorptive tissue well developed	0.109	No seeds in spikes.....	0.100	0.153
25. 2.1925	Rolled.....			70.0	0.137	Dry, with a little thin absorptive tissue	0.077	No seeds in spikes.....	0.095	0.133
10. 3.1925	Open, bright green.....			40.0	0.300	Absorptive tissue with root hairs	0.068	Young spikes with dough seeds	0.143	0.312
20. 3.1925	Open.....			42.0	0.242	Thick absorptive tissue with root hairs	0.068	Spikes before flowering.....	0.153	0.254
30. 3.1925	Open.....			41.0	0.217	Absorptive tissue with root hairs	0.072	Spikes with young seeds, just after flowering	0.153	0.283
9. 4.1925	Open.....			40.0	0.242	Absorptive tissue with root hairs	0.044	Spikes beginning to flower..	0.111	0.273
20. 4.1925	Open.....			36.0	0.341	Absorptive tissue with a few root hairs	0.131	Young spikes with dough seeds		0.261
4. 5.1925	Open.....			35.0	0.286	Absorptive tissue with root hairs	0.109	Spikes flowering.....	0.188	0.392
15. 5.1925	Rolled.....			53.0	0.155	Absorptive tissue, secondary roots	0.136	Spikes and stalks dry, no spikes left on axis	0.134	
29. 5.1925	Green leaves slightly rolled.			43.0	0.187	Absorptive tissue with root hairs	0.075	Empty spikes, dry stalks...	0.054	
15. 6.1925	New green leaves open, also brown leaves		0.273	Brown	0.072	Secondary roots; absorptive tissue	0.081	Stalks and spikes dry.....	0.054	0.097
29. 6.1925	A few green leaves, folded..	52.0	0.200	„	0.050	Absorptive tissue with root hairs	0.160	Haulms dry, not separated..	0.050	
13. 7.1925	Green leaves open, brown leaves	50.0	0.211	„	0.125	Absorptive tissue with root hairs	0.131	Haulms dry.	0.063	
27. 7.1925	Green leaves open, brown leaves	50.0	0.254	„	0.057	Some new roots with absorptive tissue and root hairs, old roots bare	0.134	Haulms dry.	0.048	
4. 8.1925	A few new leaves open.....	40.0	0.254	„	0.071	Root hairs plentiful, partly removable tissue with secondary roots	0.084			

TABLE XIII.

Phosphorus content of Tragus racemosus as percentage phosphoric oxide on plant dry matter throughout the year. Armoedsolakte.

Date.	Leaves.			Roots.		Spikes and Stalks.		
	Remarks.	Dry Matter. %	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ . %	Remarks.	P ₂ O ₅ (Stalks). %	P ₂ O ₅ (Spikes). %
31.10.1924	Just after the rain, to 2 cm. long	29·0	0·323	Abundant root hairs.....	0·214			
11.11.1924	2-3 cm. long, branched shoots...	25·0	0·319	Abundant root hairs.....	0·111			
18.11.1924	More branched, 4 cm. long.....	30·0	0·357	Root hairs.....	0·142	Young haulms, not separated....	0·306	
8.12.1924	Open, fresh, 5 cm. long.....	28·0	0·280	Root hairs.....	0·142	Young spikes and older spikes— Young.....		0·537
						Old.....		0·345
17.12.1924	Open, 6-7 cm. long.....	30·0	0·349	Root hairs.....	0·102			
29.12.1924	Open, 4 cm. long.....	30·0	0·259	Smooth roots, no root hairs, second- ary roots	0·109	Haulms after flowering.....	0·300	
5. 1.1925	Rather withered, 5 cm. long....	40·0	0·333	Dry, secondary roots.....	0·143	Spikes before flowering.....		0·375
12. 1.1925	Rather withered, 6 cm. long....	38·0	0·261	Dry, no root hairs.....	0·132	Spikes after flowering, seeds have fallen		0·275
19. 1.1925	Fresher.....	37·0	0·306	Dry, no root hairs.....	0·107	Spikes seeding.....		0·300
3. 2.1925	Open.....	42·0	0·448	Fresher, with root hairs.....	0·300	Young spikes and seeding spikes— Young.....		0·448
						Seeding.....		0·857
10. 2.1925	Open.....	40·0	0·250	Thick root hairs, secondary roots.	0·087	Spikes with unripe seeds.....		0·230
17. 2.1925	Fresh.....	36·0	0·353	Absorptive tissue.....	0·218	Spikes before flowering, stalks green, not separated	0·182	
25. 2.1925	Open, 4 cm. long.....	45·0	0·259	Dry with hairy absorptive tissue..	0·090	Very young haulms and spikes with unripe seeds	0·349	0·429
10. 3.1925	Open.....	35·0	0·300	Secondary roots, root hairs.....	0·092	Very young haulms and spikes with unripe seeds	0·375	0·333
20. 3.1925	Open.....	48·0	0·233	No absorptive tissue nor root hairs	0·064	Very young haulms and spikes with unripe seeds	0·309	0·254
30. 3.1925	Open.....	45·0	0·205	No absorptive tissue nor root hairs	0·106	Spikes seeding, seeds falling....		0·250
9. 4.1925	Open.....	43·0	0·261	Root hairs.....	0·102	Ripe seeds.....	0·273	0·473

TABLE XIV.

Relative proportions of Phosphorus in aerial and subterranean parts of Themeda triandra, Armoedsvlakte.

Date.	Relative phosphoric oxide content on basis of root = 1.					Relative weights of dry matter of plant parts on basis of root = 1.					Phosphoric oxide in various plant parts on the basis of total in whole plant = 100.					
	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Roots.
25. 9.1924	7.9				5.1	4.3				20.4	56.0				36.4	7.6
15.10.1924	9.5				4.1	4.3				14.3	65.0				28.0	7.0
4.11.1924	16.2				2.0	7.2				7.2	83.9				10.3	5.8
19.11.1924	1.4	3.2		1.5	2.4	0.7	1.4		1.1	10.0	14.7	33.7	15.8		25.2	10.6
9.12.1924	2.1	6.9		13.2	3.2	0.8	2.4		4.2	10.5	7.9	26.1	50.0		12.2	3.9
30.12.1924	4.2	14.1	7.2	9.1	3.1	2.4	5.6	6.0	3.0	9.5	10.8	36.4	18.6	23.5	8.0	2.7
13. 1.1925	1.8	4.8	3.4	3.3	2.0	0.9	4.1	8.9	2.7	10.3	11.0	29.4	20.7	20.2	12.2	6.5
4. 2.1925	14.0		8.9	3.0	8.0		4.7	13.4	3.4	24.3		40.1	25.5	8.6	23.0	1.8
18. 2.1925	4.8	5.5	5.3	13.0	4.1	1.4	2.9	8.8	7.0	11.3	14.2	16.3	15.7	38.6	12.1	3.1
11. 3.1925	3.7	9.9	1.0	1.1	3.1	1.7	4.4	1.2	0.6	8.9	18.6	50.0	5.0	5.5	15.9	5.0
31. 3.1925	3.1	5.8	3.0	4.5	2.9	1.2	2.7	3.2	1.5	9.9	15.2	28.5	14.7	22.0	14.6	5.0
21. 4.1925	2.0	4.0	1.2	2.3	1.4	0.9	2.2	2.3	1.1	5.3	16.8	33.6	10.1	19.3	11.5	8.7
19. 5.1925	6.7		1.5	3.5	1.5		5.8	4.1	2.0	7.2		47.2	10.5	24.1	10.5	7.7
18. 6.1925	5.0		0.6		7.5		1.8	1.3		8.2		35.0	4.2		42.3	18.5
15. 7.1925	2.4		1.8	0.4	6.8		2.2	9.7	0.8	16.5		24.3	14.5	3.2	54.8	3.3

TABLE XV.

Relative proportions of Phosphorus in aerial and subterranean parts of Digitaria eriantha, Armoedsvlakte.

Date.	Relative phosphoric oxide content on basis of root = 1.					Relative weights of dry matter of plant parts on basis of root = 1.					Phosphoric oxide in various plant parts on the basis of total in whole plant = 100.					
	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Roots.
29. 9.1924	1·6				10·3	0·8				18·1	12·4				79·8	7·8
20.10.1924	7·4				6·8	3·5				17·1	49·0				45·0	6·0
4.11.1924	6·5				2·3	3·2				6·8	66·3				23·4	10·3
19.11.1924	5·2	15·2			0·5	1·9	6·6			1·3	23·7	69·4			2·2	4·9
9.12.1924	3·5	6·5			9·2	1·1	3·2			19·7	17·3	32·2			45·5	5·0
30.12.1924	4·7	7·5	6·9	4·8	2·2	1·4	4·3	2·9	1·2	4·7	17·3	27·7	25·5	17·7	8·1	3·7
13. 1.1925	4·2	5·5	17·1		1·2	0·9	1·7	3·6		3·0	14·4	18·9	58·9		4·1	3·7
4. 2.1925	3·4	5·5	3·4	1·2	7·1	1·0	2·8	2·4	0·4	12·5	15·7	25·4	15·7	5·5	32·8	4·9
18. 2.1925	7·5	25·7	1·3	0·4	13·8	1·6	7·0	0·4	0·1	23·6	15·0	51·7	2·6	0·8	27·8	2·1
11. 3.1925	10·3	20·2	4·3	3·0	12·5	2·3	5·3	2·4	0·9	22·0	20·0	39·4	8·3	5·9	24·3	2·1
31. 3.1925	5·7	7·0	3·1	1·0	4·0	2·0	3·0	2·2	0·5	9·7	26·2	32·1	14·2	4·6	18·3	4·6
21. 4.1925	8·3	14·5	1·4	1·2	5·7	2·4	4·7	1·5	0·7	9·9	25·8	45·2	4·3	3·7	17·7	3·3
19. 5.1925	9·9		2·1	0·2	6·8	3·8	2·6	0·3		12·1	49·5	10·5	1·0		34·0	5·0
18. 6.1925	1·0				3·7	0·6				6·6	17·5				65·0	17·5
15. 7.1925	6·0				9·2	4·3				6·2	37·0				56·8	6·2

TABLE XVI.

Relative proportions of Phosphorus in aerial and subterranean parts of Eragrostis superba, Armoedsvlakte.

Date.	Relative phosphoric oxide content on basis of root value = 1.					Relative weights of dry matter of plant parts on basis of root = 1.					Phosphoric oxide in various plant parts on the basis of total in whole plant = 100.					
	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Roots.
25. 9.1924	5.0				9.7	1.8				50.6	31.9				61.7	6.4
20.10.1924	5.1				2.0	2.3				4.0	62.8				24.7	12.5
4.11.1924	5.0				0.5	1.5				0.6	76.9				7.7	15.4
19.11.1924	1.0	1.0	2.1		1.5	0.3	0.4	0.5		2.0	15.1	15.1	22.0		22.7	15.1
9.12.1924	0.5	1.3	1.8	1.0	2.0	0.2	0.8	0.8	0.3	4.0	6.5	16.9	24.2	13.1	26.2	13.1
30.12.1924	1.1	3.3	3.8	4.6	5.3	0.2	0.9	1.5	0.8	6.3	5.7	17.1	19.9	24.1	28.4	4.8
13. 1.1925	1.3		2.1	0.9	3.6		0.4	0.5	0.2	2.9	14.6		23.6	10.1	40.4	10.8
4. 2.1925	10.9		4.3	1.6	9.7		3.9	2.5	0.4	9.2	39.6		15.6	5.7	35.3	3.8
18. 2.1925	5.1	11.7	3.3	0.2	11.0	1.5	5.9	5.0	0.1	22.0	15.9	36.5	10.3	0.6	34.4	2.3
11. 3.1925	2.2	2.7	1.3	1.0	0.6	0.4	0.6	0.6	0.3	0.6	25.0	30.6	14.7	11.3	7.1	11.3
31. 3.1925	2.0	4.1	1.7	1.4	1.3	0.4	1.1	0.7	0.3	1.3	17.4	35.6	14.7	12.1	11.3	8.9
21. 4.1925	1.7	5.1	3.0	2.3	0.8	0.4	0.8	1.7	0.5	0.8	12.2	36.7	21.6	16.5	5.6	7.4
19. 5.1925	2.3		0.4	0.8	1.8		0.7	0.5	0.3	2.2	36.5		6.3	12.6	28.6	16.0
18. 6.1925	1.7		1.8		4.6		0.5	1.3		3.0	18.6		19.8		50.5	11.1
15. 7.1925			3.0		5.3			1.6		3.3			32.2		57.1	10.7

TABLE XVII.

Relative proportion of Phosphorus in aerial and subterranean parts of Cymbopogon plurinodis, Armoedsvlakte.

Date.	Relative phosphoric oxide content on basis of root value = 1.					Relative weights of dry matter of plant parts on basis of root = 1.					Phosphoric oxide in various plant parts on the basis of total in whole plant = 100.					
	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Roots.
25.9.1924	1.1				1.0	1.2				7.5	34.3				32.8	32.8
15.10.1924	41.0				27.6	18.3				78.0	58.9				39.6	1.5
4.11.1924	4.8				1.4	3.1				4.8	66.6				19.4	14.0
19.11.1924	1.2	4.1	12.0		1.6	0.4	1.6	3.7		3.2	6.0	20.6	60.3		8.0	5.1
9.12.1924	3.4	8.2	17.8		3.6	0.7	2.7	6.7		5.3	10.0	24.1	52.3		10.5	3.1
30.12.1924	1.2	8.7	1.7	2.8	1.5	0.6	3.0	1.2	0.7	2.6	7.1	51.5	10.0	16.5	8.8	6.1
19. 1.1925	3.4	16.1	3.5	1.9	15.7	1.2	7.6	5.1	0.9	27.0	8.1	38.7	8.4	4.5	37.7	2.6
4. 2.1925	1.1	2.5	0.4	0.3	2.0	0.8	2.6	2.2	0.4	8.2	15.1	34.2	5.4	4.2	27.4	13.7
18. 2.1925	2.7	7.3	1.5	2.3	8.8	0.7	2.7	2.0	1.0	17.0	11.4	30.9	6.3	12.2	37.3	1.9
11. 3.1925	5.7	11.4	4.1	3.7	10.4	1.4	4.6	4.0	1.4	18.0	15.7	31.3	10.3	10.2	28.6	4.9
31. 3.1925	5.3	10.8	4.9	5.4	1.4	2.4	5.6	7.1	2.4	3.7	18.4	37.5	17.0	18.7	4.8	3.6
21. 4.1925	2.8	9.8	5.9	3.4	3.7	0.7	2.9	4.0	0.9	5.2	10.5	36.8	22.2	12.7	13.9	3.9
19. 5.1925		5.0	1.3	0.3	3.9		3.0	2.5	0.2	9.9		43.5	11.3	4.1	33.9	7.2
18. 6.1925		5.7	0.4	0.1	8.1		2.2	1.4	0.2	10.7		37.4	2.6	0.6	52.9	6.5
15. 7.1925		3.0	1.0	0.7	8.8		1.5	4.7	0.6	15.2		20.2	6.7	4.8	61.6	6.7

TABLE XVIII.

Relative proportion of Phosphorus in aerial and subterranean parts of Pogonarthria falcata, Armoedsvlakte.

Date.	Relative phosphoric oxide content on basis of root value = 1.					Relative weights of dry matter of plant parts on basis of root = 1.					Phosphoric oxide in various plant parts on the basis of total in whole plant = 100.					
	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Roots.
26. 9.1924	1·8				3·3	1·0				6·3	29·5				54·1	16·4
15.10.1924	29·3				12·3	14·0				22·0	68·7				28·9	2·2
4.11.1924	7·3				4·6	3·2				8·5	56·6				35·6	7·8
19.11.1924		7·8			3·2		3·2			6·5		60·8			26·6	12·6
0.12.1924	3·3	3·3			4·9	1·9	1·1			10·4	26·4	26·4			39·2	8·0
30.12.1924	16·2		12	·1	5·0	6·4		3·0		7·5	47·3		35·3		14·5	2·9
13.1.1925	7·7		1·5	0·9	1·7	2·8		0·5	0·2	5·0	60·1		11·7	5·7	13·2	9·3
4.2.1925	3·3	7·7	4·9	3·4	2·3	1·3	4·0	3·5	2·3	7·8	14·6	34·0	21·6	15·1	10·1	4·6
18.2.1925	8·5		8·3	1·8	4·7	1·9		4·5	0·7	5·5	35·0		34·1	7·4	19·3	4·2
11.3.1925	14·6		8·8	8·8	2·6	5·9		3·7	2·8	4·0	40·8		24·5	24·5	7·6	2·6
31.3.1925	9·2		2·1	2·9	0·2	2·3		1·6	1·2	0·4	59·7		13·6	18·8	1·3	6·6
21.4.1925	10·1		2·3	6·2	1·6	3·5		2·0	2·6	2·7	47·6		10·8	29·2	7·5	4·9
19.5.1925	2·9		1·5	1·9	2·0	1·9		3·6	2·0	5·8	31·2		16·2	20·5	21·5	10·6
18.6.1925	4·0		0·4	0·3	7·0	1·6		0·7	0·3	5·5	30·5		3·0	2·2	53·5	10·8
15.7.1925	1·3		2	·9	14·5	0·5		4·3		12·3	6·6		14·7		73·6	5·1

TABLE XIX.

Relative proportion of Phosphorus in aerial and subterranean parts of Chrysopogon serrulatus, Armoedsvlakte.

Date.	Relative phosphoric oxide content on basis of root value = 1.					Relative weights of dry matter of plant parts on basis of root = 1.					Phosphoric oxide in various plant parts on the basis of total in whole plant = 100.					
	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Young Leaves.	Full- grown Leaves.	Stalks.	Spikes.	Dry Material.	Roots.
29. 9.1924	1.6				5.0	0.9				14.2	21.0				65.0	14.0
15.10.1924	7.5				3.0	2.9				9.4	65.0				26.0	9.0
4.11.1924	3.9				0.5	1.8				1.8	72.0				9.3	18.4
19.11.1924	5.8	15.4			1.2	2.3	7.0			4.6	24.8	52.3			5.1	17.8
9.12.1924	1.3	4.0		3.8	1.4	0.7	2.3		1.8	4.5	11.3	34.8		33.1	12.2	8.6
30.12.1924	15.8	20.3	10.5	4.0	11.2	4.0	7.4	3.8	1.5	23.7	21.7	27.9	14.4	5.4	15.4	15.2
13. 1.1925	1.0	1.4	1.9	0.4	3.0	0.4	0.7	1.6	0.2	6.0	11.5	16.1	21.7	4.6	33.5	11.5
4. 2.1925	3.3	7.7	4.9	0.3	2.3	1.3	4.0	3.5	0.2	7.8	16.5	39.5	25.2	1.5	11.8	5.5
18. 2.1925	5.1	11.7	3.3	0.2	11.0	1.5	5.9	5.0	0.1	22.0	12.2	27.6	7.8	4.7	26.0	21.7
11. 3.1925	2.0	2.7	1.5	0.1	2.7	0.6	1.1	0.7	0.08	7.8	20.0	27.0	15.0	1.0	27.0	10.7
31. 3.1925	2.9	4.1	1.5	1.5	3.4	0.8	1.7	1.0	0.5	7.4	20.1	27.8	10.4	10.4	23.6	8.7
21. 4.1925	18.2	25.6	4.0	2.2	3.7	5.5	9.2	2.7	0.8	7.1	34.1	46.8	7.3	4.0	6.7	1.1
19. 5.1925	2.6	0.4	0.09	2.0	0.9	0.3	0.04	5.4	42.8	6.5	1.4	32.0	17.3			
18. 6.1925	0.3	0.6	8.4	0.2	1.2	13.7	2.9	5.8	81.5	9.8						
15. 7.1925	--	0.2	33.9	--	0.7	51.3	--	0.6	96.6	2.8						