

AREA 5 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Contest.....	Fort Beaufort..	Dec., 1933	.27	.22	.14	2.55	.16	.91	11.0	33.3	5.51	Grass, green.	
		Mar., 1934	.11	.25	.14	1.26	.04	.28	7.3	33.6	2.98	Grass, mainly green, short.	
		June, 1934	.17	.40	.18	2.17	.14	1.00	.89	8.9	33.0	5.34	Grass, leafy.
		Sept., 1934	.12	.49	.11	.82	.54	.36	6.8	6.8	36.0	3.70	Grass, mainly brown, short and bush; mostly grass.
		Jan., 1935	.15	.29	.17	1.86	.09	.84	8.7	8.7	33.9	4.19	Grass, mainly green, leafy.
		April, 1935	.13	.30	.15	1.41	.08	.13	8.0	8.0	33.9	3.29	Grass, mainly green, leafy.
		July, 1935	.19	.40	.19	2.56	.15	1.02	10.1	28.4	5.53	Grass, mainly green, leafy.	
		Oct., 1935	.13	.34	.15	.84	.05	.29	5.9	34.3	2.39	Grass, mainly brown, leafy.	
		Jan., 1934	.19	.68	.32	2.21	1.38	1.62	8.3	27.8	9.36	4.23	Grass and bush.
		April, 1934	.16	.32	.12	1.66	.40	.50	6.1	33.1	4.23	4.00	Grass, mainly green and bush; mostly grass.
Nieuweling.....	Adelaide.....	June, 1934	.10	.41	.15	1.03	.88	.57	5.6	35.6	4.00	Grass, short and bush; mostly grass.	
		Oct., 1934	.12	.51	.19	.99	.67	.43	7.9	35.8	3.39	Grass, mainly brown and bush.	
		Feb., 1935	.12	.37	.19	1.52	.75	.71	7.8	36.5	4.72	Grass, mainly green and bush; mostly grass.	
		May, 1935	.11	.34	.10	1.37	.23	.33	6.8	38.7	4.72	Grass, mainly green, leafy and bush.	
		Aug., 1935	.14	.90	.23	1.25	.82	.60	9.3	32.6	7.19	Bush.	
		Nov., 1935	.12	.49	.21	1.51	.65	.57	8.5	38.1	5.04	Grass, green, short and bush; mostly bush.	
		Nov., 1933	.26	.28	.17	2.07	.32	.52	10.6	31.7	5.16	Grass, green, short and bush.	
		Feb., 1934	.16	.26	.13	1.80	.25	.56	8.7	36.8	4.00	Grass, mainly green, short.	
		May, 1934	.17	.47	.17	1.49	.27	.69	4.5	35.7	4.13	Grass, mainly green.	
		Nov., 1934	.12	.24	.10	1.32	.07	.45	7.0	32.3	3.07	Grass, mainly green, short.	
April, 1935	.092	.27	.08	.62	.06	.13	4.6	32.5	2.30	Grass, short.			
July, 1935	.12	.45	.08	.76	.05	.23	7.0	33.3	2.93	Grass, mainly green, short, and bush; mostly grass.			
Request.....	Bedford.....	Dec., 1933	.22	.32	.17	2.42	.52	1.15	10.5	31.6	6.07	Grass, mainly green and bush; mostly grass.	
		Mar., 1934	.19	.31	.13	1.42	.08	.42	7.5	36.2	3.33	Grass, mainly green.	
		June, 1934	.16	.42	.12	.92	.13	.30	5.8	34.2	2.96	Grass, mainly brown, leafy.	
		Sept., 1934	.096	.44	.08	.69	.18	.18	6.1	39.3	2.44	Grass, mainly brown and bush.	
		Feb., 1935	.19	.28	.11	1.68	.19	.53	6.9	33.9	4.04	Grass, mainly green, short.	
		May, 1935	.11	.42	.12	.92	.11	.29	6.6	35.1	7.28	Grass, mainly green, short and bush; mostly grass.	
		Aug., 1935	.14	.27	.11	.71	.06	.19	5.9	35.6	2.26	Grass, mainly brown, short.	

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 5 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Krugerskraal.....	Bedford.....	Jan., 1934	.13	.36	.18	1.41	.22	.39	7.7	40.9	3.77	Grass, mainly green and bush.
		April, 1934	.12	.40	.14	1.41	.47	.40	6.7	35.3	3.68	Grass, mainly green, short and bush; mostly grass.
		July, 1934	.096	.64	.15	.87	.56	.27	6.5	38.5	4.09	Grass, mainly brown, short and bush.
		Oct., 1934	.094	.53	.22	.90	.17	.22	5.7	39.6	3.10	Grass, brown and bush.
		Mar., 1935	.08	.49	.10	.76	.18	.11	6.1	39.4	2.98	Grass, mainly green and bush; mostly bush.
		June, 1935	.19	.93	.45	2.00	1.42	.28	11.3	26.7	9.28	Bush.
		Sept., 1935	—	.42	.12	1.20	.16	—	9.5	33.5	3.82	Grass, green, short and bush; mostly grass.
Karkotskraal.....	Somerset East..	Nov., 1933	.26	.60	.32	3.05	1.64	1.61	14.8	29.5	9.72	Bush.
		Feb., 1934	.08	.37	.13	1.24	.12	.33	8.1	39.7	3.40	Grass, mainly green and bush; mostly grass.
		May, 1934	.19	.54	.14	1.43	.29	.37	6.5	41.3	3.89	Grass, short and bush; mostly bush.
		Aug., 1934	.094	.29	—	.75	.16	.19	5.4	40.7	2.26	Grass, mainly brown and bush; mostly grass.
		Nov., 1934	.068	.48	.13	1.22	.41	.43	7.1	42.3	4.52	Bush.
		Feb., 1935	.22	.53	.19	2.33	.36	.55	10.2	34.4	6.14	Bush.
Rietfontein.....	Somerset East..	May, 1935	.21	.57	.14	1.89	.25	.53	12.3	36.8	5.36	Grass and bush.
		Aug., 1935	.15	.60	.19	1.26	.60	.36	9.3	39.4	4.64	Bush.
		Dec., 1933	.22	.51	.27	2.71	.90	1.00	14.0	31.4	8.21	Grass, green and bush.
		Mar., 1934	.15	.34	.23	1.69	.37	.59	11.2	32.2	5.25	Grass, mainly green and bush; mostly grass.
		June, 1934	.21	.67	.23	1.23	1.14	.93	10.5	37.4	8.46	Bush.
		Sept., 1934	.11	.53	.12	1.64	.38	.27	6.4	46.2	4.44	Bush.
Wentworth.....	Somerset East..	Dec., 1934	.098	.55	.12	.59	.39	.19	6.0	46.0	4.05	Bush.
		Mar., 1935	.096	.46	.12	1.43	.43	.21	7.2	39.4	3.97	Grass, green and bush; mostly bush.
		June, 1935	.24	.47	.17	2.12	.22	.71	13.7	30.4	5.39	Grass, green, short.
		Sept., 1935	.21	.80	.46	2.28	1.59	1.28	15.4	30.2	10.18	Bush.
		Jan., 1934	.26	.66	.30	2.19	1.85	.96	13.3	34.3	10.03	Bush.
		April, 1934	.30	.72	.36	2.90	.59	.75	11.9	30.7	7.78	Grass, mainly green and bush; mostly grass.
Wentworth.....	Somerset East..	July, 1934	.23	.60	.23	1.88	1.25	.80	10.5	33.7	7.20	Grass, leafy and bush.
		Oct., 1934	.21	.55	.29	1.63	.94	.86	9.9	32.8	7.40	Bush.
		Jan., 1935	.18	.49	.20	1.51	.58	.60	8.5	40.1	5.29	Bush.
		April, 1935	.20	.64	.27	2.33	1.27	.26	10.8	34.3	7.84	Grass and bush; mostly bush.
		July, 1935	.18	.70	.19	1.59	.67	.55	10.0	40.1	5.56	Bush.
		Oct., 1935	.29	.68	.39	3.56	.51	1.13	15.8	34.5	9.62	Grass and bush.

## AREA 6.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Mount Prospect.	Herschel.....	Oct., 1933	.13	.94	.26	.76	.02	.08	10.0	21.4	6.04	Bush.
		Feb., 1934	.13	.25	.15	1.93	.03	.38	3.9	38.4	3.83	Grass, long.
		April, 1934	.12	.18	.05	.93	.03	.20	.4.8	35.9	1.76	Grass.
		July, 1934	.074	.26	.09	.55	.01	.12	2.7	38.5	1.56	Grass, mainly brown.
		Oct., 1934	.064	.34	.12	.41	.02	.06	3.8	37.4	1.61	Grass, mainly brown.
		Mar., 1935	.066	.26	.11	.81	trace	.04	3.9	41.6	1.92	Grass, mainly green, long.
		Sept., 1935	.056	.24	.04	.18	.02	.05	4.2	39.0	1.19	Grass, brown.
		Nov., 1933	.10	.42	.12	.56	.02	.06	5.4	30.6	2.79	Grass, mainly brown and bush ; mostly grass.
		Mar., 1934	.11	.23	.15	2.39	.04	.25	6.9	35.5	4.38	Grass, mainly green.
Kranspruit.....	Herschel.....	Aug., 1934	.05	.30	.11	.48	trace	.06	2.7	38.8	1.50	Grass, mainly brown.
		Feb., 1935	.13	.33	.04	.62	.02	.09	4.2	33.1	1.49	Grass.
		April, 1935	.075	.30	.11	.49	trace	.08	3.6	37.4	1.60	Grass, mainly brown.
		June, 1935	.06	.23	.07	.29	trace	.07	3.4	39.9	1.31	Grass, mainly brown.
		July, 1935	.07	.24	.09	.45	.03	.11	3.7	40.2	1.33	Grass, mainly brown.
		Oct., 1935	.05	.25	.05	.25	trace	.01	3.7	39.7	1.32	Grass, mainly brown.
		Dec., 1933	.32	.26	.17	3.26	.05	.50	15.2	32.5	6.49	Grass, green.
		Mar., 1934	.18	.26	.08	1.13	.02	.23	4.5	35.5	2.66	Grass.
		May, 1934	.13	.39	.15	.93	.03	.23	4.1	36.7	2.77	Grass.
Malpas.....	Barkley East...	June, 1934	.16	.30	.05	.75	.01	.17	3.5	38.9	2.02	Grass, brown.
		Sept., 1934	.062	.36	.14	.34	trace	.09	3.7	37.2	1.79	Grass, mainly brown.
		Feb., 1935	.064	.19	.06	.60	trace	.06	5.6	40.0	1.34	Grass, long.
		May, 1935	.073	.21	.05	.35	.02	.08	3.8	36.9	1.23	Grass, mainly brown.
		Aug., 1935	.044	.26	.09	.39	.01	.12	3.9	35.9	1.41	Grass, mainly brown.
		Nov., 1933	.068	.34	.12	.41	.01	.12	4.3	35.1	2.07	Grass, mainly brown.
		Feb., 1934	.31	.80	.27	2.84	.04	.38	8.2	25.2	10.20	Grass, mainly green and bush.
		May, 1934	.17	.54	.16	1.46	.03	.35	6.7	32.7	3.50	Grass and bush ; mostly grass.
		Aug., 1934	.14	.43	.17	.88	.01	.16	5.8	33.6	2.84	Grass, mainly brown, leafy.
Earlstown.....	Barkley East...	Nov., 1934	.25	.48	.18	2.04	.05	.38	14.2	27.5	4.78	Grass, mainly green, leafy and bush ; mostly grass.
		Feb., 1935	.22	.37	.14	1.46	trace	.76	10.1	28.1	3.67	Grass, green, leafy.
		May, 1935	.18	.35	.12	.93	.02	.14	5.4	34.7	2.42	Grass, leafy.
		Aug., 1935	.083	.30	.11	.55	trace	.14	3.3	38.3	1.79	Grass, mainly brown, leafy.
		Dec., 1933	.33	1.22	.42	4.04	.06	.48	19.6	22.7	11.70	Grass, green, leafy and bush ; mostly bush.
		Mar., 1934	.18	.88	.31	2.20	.06	.28	9.4	32.1	6.46	Grass and bush.
		June, 1934	.20	.68	.18	1.29	.02	.18	9.0	31.1	3.83	Grass, leafy.
		Sept., 1934	.18	.47	.15	1.15	.03	.21	10.6	31.7	3.14	Grass, leafy and bush ; mostly grass.
		Dec., 1934	.27	.48	.18	2.38	.08	.33	12.6	31.6	5.12	Grass, green, leafy.
Earlstown.....	Barkley East...	Mar., 1935	.09	.31	.13	1.57	.03	.31	8.3	35.3	3.28	Grass, green, leafy.
		June, 1935	.17	.26	.12	1.24	.02	.26	7.0	35.1	2.98	Grass, mainly green.
		Sept., 1935	.15	.27	.08	.67	.02	.16	5.3	38.3	2.02	Grass, brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 6 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Glass Neven.....	Barkley East...	Jan., 1934	.22	.49	.24	2.74	.06	.45	12.5	33.0	6.27	Grass, green and bush; mostly grass.	
		April, 1934	.18	.56	.22	2.35	.07	.42	10.8	31.2	5.02	Grass, mainly green and bush; mostly grass.	
		July, 1934	.09	.35	.12	.70	.01	.12	.43	4.3	33.1	1.90	Grass, mainly brown, leafy.
		Oct., 1934	.16	.60	.20	1.52	.04	.43	10.1	30.6	4.30	Grass, mainly green, leafy and bush; mostly grass.	
		Jan., 1935	.20	.55	.23	1.95	trace	.38	.38	9.1	31.6	4.36	Grass, green, leafy.
		April, 1935	.17	.52	.24	2.03	.06	.55	.16	10.7	30.0	4.88	Grass, mainly green, leafy.
		July, 1935	.12	.35	.10	.78	.03	.16	.33	5.0	33.4	2.02	Grass, mainly brown, leafy.
		Oct., 1935	.17	.35	.12	1.35	.04	.33	.33	6.8	35.8	3.33	Grass, mainly green, leafy.
		Nov., 1933	.11	.41	.20	.58	.02	.20	.20	5.4	33.3	2.51	Grass, mainly brown.
		Feb., 1934	.24	.31	.12	1.30	.03	.19	.19	8.6	33.6	3.72	Grass, green, short.
Grootvlei.....	Barkley East...	May, 1934	.21	.42	.17	1.13	.04	.15	7.7	32.6	5.10	Grass, mainly green, leafy.	
		Aug., 1934	.17	.65	.24	1.08	.01	.18	.18	8.4	30.1	3.99	Grass, mainly brown, short and bush.
		Nov., 1934	.23	.33	.14	1.25	trace	.18	.18	11.9	29.5	3.05	Grass, green, leafy.
		Feb., 1935	.19	.27	.10	1.29	.03	.76	.76	9.2	30.2	2.85	Grass, green, leafy.
		May, 1935	.15	.26	.09	.59	.02	.08	.08	4.3	32.6	1.83	Grass, mainly green, leafy.
		Aug., 1935	.15	.28	.10	.49	.03	.08	.08	4.1	33.2	1.85	Grass, mainly brown, leafy.
		Dec., 1933	.29	.28	.22	1.29	.04	.18	.18	13.1	28.4	3.56	Grass, mainly green, short.
		Mar., 1934	.16	.34	.14	.98	.04	.12	.12	9.1	36.2	2.48	Grass, mainly green.
		June, 1934	.23	.39	.20	.87	.02	.14	.14	6.3	29.7	3.31	Grass, leafy, and bush; mostly grass.
		Sept., 1934	.08	.37	.10	.31	.01	.04	.04	3.9	30.3	1.83	Grass, brown, leafy.
The Falls.....	Barkley East...	Dec., 1934	.24	.31	.12	1.47	.05	.24	11.2	31.4	3.12	Grass, green, leafy.	
		Mar., 1935	.24	.35	.17	1.10	.06	.21	.21	5.8	33.3	3.01	Grass, green, leafy.
		June, 1935	.13	.26	.09	.48	trace	.07	.07	4.4	33.1	1.83	Grass, mainly brown, short.
		Sept., 1935	.07	.21	.03	.24	.07	.16	.16	3.4	33.2	1.67	Grass, brown, short.
		Jan., 1934	.31	.44	.22	2.26	.06	.37	.37	17.2	24.8	5.19	Grass, green.
		April, 1934	.17	.29	.10	.69	.04	.09	.09	7.0	32.9	1.79	Grass, mainly green.
		July, 1934	.11	.25	.12	.37	trace	.08	.08	3.5	34.3	1.58	Grass, mainly brown, leafy.
		Oct., 1934	.16	.56	.11	.54	.02	.08	.08	5.2	34.3	2.13	Grass, brown, leafy.
		Jan., 1935	.16	.26	.10	.80	.04	.36	.36	6.9	30.5	2.23	Grass, green, leafy.
		April, 1935	.12	.32	.13	.68	.04	.09	.09	6.3	28.5	2.12	Grass, green, short.
Zevenfontein.....	Barkley East...	July, 1935	.18	.30	.11	.53	.02	.12	4.9	34.1	1.88	Grass, mainly brown, leafy.	
		Oct., 1935	.19	.34	.14	.94	trace	.21	.21	10.3	33.3	2.80	Grass, green.

AREA 6 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Bamboschoek.....	Lady Grey.....	Nov., 1933	.08	.17	.07	.48	.01	.09	4.1	36.4	1.64	Grass, mainly brown.
		Mar., 1934	.22	.23	.08	1.34	.03	.13	8.2	35.7	2.86	Grass, mainly green.
		June, 1934	.13	.36	.12	.98	.03	.10	6.4	31.0	2.79	Grass, mainly green and bush; mostly grass.
		Sept., 1934	.12	.40	.11	.55	.02	.08	6.5	35.9	1.75	Grass, mainly brown.
		Nov., 1934	.13	.31	.12	1.41	trace	.12	10.3	35.9	2.95	Grass, mainly brown.
		Feb., 1935	.19	.40	.14	1.36	trace	.83	8.4	32.9	3.16	Grass, green, long.
		May, 1935	.072	.27	.07	.34	trace	.07	4.8	40.6	1.47	Grass.
		Aug., 1935	.08	.25	.09	.51	trace	.08	4.8	37.1	3.43	Grass, brown.
		Dec., 1933	.27	.35	.17	2.06	.03	.43	10.4	34.1	5.04	Grass, green and bush; mostly grass.
		Feb., 1934	.21	.24	.11	1.67	.04	.18	8.2	34.2	3.42	Grass, mainly green.
Zachtvlei.....	Lady Grey.....	May, 1934	.086	.49	.16	.68	.01	.07	5.4	35.4	2.40	Grass, mainly brown and bush; mostly grass.
		Aug., 1934	.11	.30	.13	.16	.01	.13	4.6	32.7	1.90	Grass, mainly brown.
		Nov., 1934	.11	.26	.09	.56	trace	.14	5.4	33.1	1.79	Grass.
		Jan., 1935	.15	.17	.10	1.51	.03	.24	5.7	35.9	2.66	Grass, mainly green.
		April, 1935	.14	.38	.11	.74	.02	.08	5.4	34.3	1.81	Grass, mainly green.
		July, 1935	.06	.33	.11	.29	.02	.13	3.1	36.8	1.38	Grass, mainly brown.
		Oct., 1935	.096	.20	.06	.46	.04	.06	4.4	40.4	1.36	Grass.
		Jan., 1934	.25	.34	.12	1.80	.05	.28	10.8	34.4	4.00	Grass, mainly green.
		April, 1934	.17	.29	.09	1.21	.04	.13	5.6	35.8	2.42	Grass.
		July, 1934	.14	.55	.12	.78	.02	.11	6.0	34.3	2.58	Grass, mainly brown and bush; mostly grass.
Antelope Park....	Maelear.....	Oct., 1934	.12	.27	.15	.68	.01	.08	5.3	36.0	2.17	Grass, mainly brown, and bush; mostly grass.
		Dec., 1934	.22	.26	.12	1.54	.05	.24	8.2	37.2	3.29	Grass, mainly green.
		Mar., 1935	.13	.37	.10	.76	.02	.10	4.3	37.6	2.62	Grass, mainly green.
		June, 1935	.11	.34	.10	.63	trace	.11	5.7	35.2	2.20	Grass, mainly brown.
		Sept., 1935	.10	.28	.08	.66	.04	.09	6.4	33.1	2.50	Grass.
		Nov., 1933	.18	.21	.18	1.86	.02	.60	13.8	34.2	4.98	Grass, mainly green, short.
		Feb., 1934	.16	.26	.10	1.16	.03	.22	8.3	34.9	3.81	Grass, green.
		May, 1934	.076	.27	.11	.84	.02	.21	6.5	31.5	2.03	Grass, mainly green, leafy.
		Aug., 1934	.047	.23	.08	.23	trace	.03	4.5	31.6	1.48	Grass, mainly brown, short.
		Nov., 1934	.16	.26	.11	1.40	trace	.28	10.5	32.0	3.03	Grass, green, short.
Feb., 1935	.16	.32	.09	1.22	.02	.11	8.5	35.7	2.65	Grass, green, short.		
May, 1935	.13	.30	.12	.94	.04	.13	6.3	33.1	2.30	Grass, mainly green, short.		
Aug., 1935	.07	.26	.10	.26	.02	.09	4.8	33.9	1.53	Grass, brown, short.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 6 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Chamisso.....	Maclear.....	Dec., 1933	.16	.30	.13	1.91	.04	.39	11.5	36.0	4.10	Grass, mainly green.
		Mar., 1934	.12	.24	.07	1.15	.01	.19	8.3	34.9	2.37	Grass, green, short.
		June, 1934	.044	.29	.07	.34	trace	.14	4.1	31.4	1.65	Grass, mainly brown, leafy.
		Sept., 1934	.19	.18	.09	1.41	.06	.44	10.5	35.0	2.94	Grass, green.
		Dec., 1934	.11	.20	.11	1.31	trace	.33	34.6	32.9	2.59	Grass, green, short.
		Mar., 1935	.11	.27	.09	1.45	trace	.20	7.0	31.3	2.67	Grass, green, short.
		June, 1935	.085	.29	.09	.28	trace	.14	4.7	32.9	1.87	Grass, short.
		Sept., 1935	.07	.27	.05	.53	.03	.10	4.1	32.9	1.60	Grass, brown, short.
		Jan., 1934	.17	.26	.18	4.22	.10	1.62	15.2	33.4	8.66	Grass, green.
		April, 1934	.095	.28	.11	1.08	.02	.19	6.6	33.9	2.48	Grass, mainly green, leafy.
Elandsheight.....	Maclear.....	July, 1934	.057	.19	.10	.31	trace	.08	5.2	32.0	1.52	Grass, mainly brown, short.
		Oct., 1934	.16	.29	.13	1.36	.05	.52	13.0	30.5	3.12	Grass, mainly green, short.
		Jan., 1935	.16	.26	.12	2.10	.03	.39	9.5	33.1	3.72	Grass, green, short.
		April, 1935	.11	.31	.12	1.00	.06	.27	7.7	31.4	2.51	Grass, green, short.
		July, 1935	.082	.27	.09	.39	.07	.14	4.9	33.6	1.92	Grass, brown, short.
		Oct., 1935	.11	.26	.09	.71	.01	.15	8.7	32.8	2.23	Grass, mainly green, short.
		Nov., 1933	.15	.20	.11	1.38	.04	.35	10.1	—	2.91	Grass, mainly green.
		Feb., 1934	.18	.29	.12	1.19	.02	.20	6.4	34.7	2.60	Grass, mainly green, short.
		May, 1934	.036	.38	.11	.39	.01	.10	4.0	34.2	1.72	Grass, mainly brown, short.
		Nov., 1934	.10	.26	.14	1.48	trace	.35	6.8	37.5	2.78	Grass, green, leafy.
Rosslyn Park....	Maclear.....	April, 1935	.072	.28	.11	.34	trace	.16	4.6	34.3	1.81	Grass, mainly green, leafy.
		Oct., 1935	.12	.26	.14	1.43	.07	.47	7.9	36.5	3.05	Grass, green, leafy.
		Dec., 1933	.20	.32	.17	1.66	.02	.33	11.7	31.8	3.65	Grass, mainly green, short.
		Mar., 1934	.11	.39	.15	.88	.01	.16	5.8	35.3	2.34	Grass, short.
		June, 1934	.086	.34	.08	.34	trace	.04	—	31.0	1.74	Grass, mainly brown, short.
		Jan., 1935	.10	.29	.11	1.19	.15	.22	5.9	34.9	2.38	Grass, green, leafy.
		Feb., 1935	.092	.27	.09	.95	trace	.19	6.1	34.5	1.97	Grass, green, leafy.
		Sept., 1935	.16	.25	.13	1.96	.04	.56	12.2	32.6	4.01	Grass, green, short.
		Jan., 1934	.11	.29	.12	1.09	.02	.20	6.9	33.3	3.00	Grass, green, short.
		April, 1934	.066	.39	.13	.57	.02	.14	4.7	34.8	1.87	Grass, short.
Sunnyslope.....	Maclear.....	July, 1934	.04	.23	.07	.15	trace	.04	3.3	33.4	1.13	Grass, brown, leafy.
		Oct., 1934	.17	—	—	—	.37	8.4	34.0	3.12	Grass, green, leafy.	
		Mar., 1935	.082	.37	.11	.83	.07	.19	6.5	31.3	2.45	Grass, green, short.
		May, 1935	.086	.28	.10	.52	.01	.21	4.6	33.4	2.05	Grass, short.
		Nov., 1933	.15	.40	.16	1.39	.32	—	10.4	31.2	3.44	Grass, mainly green, short.
		Feb., 1934	.11	.32	.14	1.16	.24	.26	6.6	33.3	2.58	Grass, leafy.
		May, 1934	.063	.37	.11	.66	.02	.14	4.3	33.2	1.86	Grass, short.
		Feb., 1935	.15	.19	.06	1.34	trace	.17	6.3	40.1	2.77	Grass.
		May, 1935	.16	.23	.07	.96	.02	.16	6.5	38.0	2.41	Grass, leafy.
		Aug., 1935	.086	.30	.13	.59	.08	.18	4.6	37.6	2.06	Grass, brown.
Orpen.....	Maclear.....	Jan., 1934	.11	.29	.12	1.09	.02	.20	6.9	33.3	3.00	Grass, green, short.
		April, 1934	.066	.39	.13	.57	.02	.14	4.7	34.8	1.87	Grass, short.
		July, 1934	.04	.23	.07	.15	trace	.04	3.3	33.4	1.13	Grass, brown, leafy.
		Oct., 1934	.17	—	—	—	.37	8.4	34.0	3.12	Grass, green, leafy.	
		Mar., 1935	.082	.37	.11	.83	.07	.19	6.5	31.3	2.45	Grass, green, short.
		May, 1935	.086	.28	.10	.52	.01	.21	4.6	33.4	2.05	Grass, short.
		Nov., 1933	.15	.40	.16	1.39	.32	—	10.4	31.2	3.44	Grass, mainly green, short.
		Feb., 1934	.11	.32	.14	1.16	.24	.26	6.6	33.3	2.58	Grass, leafy.
		May, 1934	.063	.37	.11	.66	.02	.14	4.3	33.2	1.86	Grass, short.
		Feb., 1935	.15	.19	.06	1.34	trace	.17	6.3	40.1	2.77	Grass.
Idylla.....	Elliot.....	May, 1935	.16	.23	.07	.96	.02	.16	6.5	38.0	2.41	Grass, leafy.
		Aug., 1935	.086	.30	.13	.59	.08	.18	4.6	37.6	2.06	Grass, brown.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Roospoort.....	Elliot.....	Mar., 1934	-13	-41	-12	1.07	.03	.20	7.2	35.0	2.69	Grass, mainly green, leafy.
		June, 1934	-10	-24	-08	.91	.02	.21	4.9	33.7	2.22	Grass, short.
		Sept., 1934	-11	-37	-07	.83	.02	.33	6.0	32.9	2.73	Grass.
		Dec., 1934	-10	-26	-07	1.51	.03	.33	6.0	37.5	2.99	Grass, mainly green.
		Mar., 1935	-07	-23	-08	.81	.02	.16	6.1	34.8	1.79	Grass, green, long.
		July, 1935	-064	-29	-09	.35	.01	.12	4.2	41.3	1.40	Grass, mainly brown, leafy.
		Jan., 1934	-15	-26	-10	1.29	.05	.25	8.9	34.4	2.90	Grass, mainly green.
Ekowa.....	Elliot.....	April, 1934	-22	-38	-13	.97	.02	.10	5.8	34.5	2.33	Grass, short.
		Oct., 1934	-18	-20	-13	1.34	.04	.29	11.1	29.7	3.20	Grass, green, short.
		Jan., 1935	-13	-28	-07	1.20	.03	.25	6.2	39.3	2.43	Grass, mainly green, leafy.
		April, 1935	-11	-32	-11	.84	.04	.16	6.1	34.1	2.29	Grass, mainly green.
		June, 1935	-068	-24	-06	.45	.02	.09	4.2	39.8	1.55	Grass, mainly brown.
		Oct., 1935	-087	-22	-07	.60	.01	.12	3.1	37.5	1.60	Grass.
		Nov., 1933	-066	-26	-08	.29	.01	.07	4.1	35.3	1.76	Grass, brown, short.
		Feb., 1934	-20	-31	-20	1.76	.05	.39	8.9	29.8	3.78	Grass, mainly green.
		May, 1934	-098	-39	-12	.70	.01	.15	5.1	32.8	2.48	Grass, leafy.
		Aug., 1934	-06	-33	-09	.15	trace	.02	3.5	32.1	1.38	Grass, brown, leafy.
Carlton.....	Woodhouse....	Nov., 1934	-11	-29	-09	.71	.02	.16	7.1	32.4	1.98	Grass, green, short.
		Feb., 1935	-13	-40	-10	.86	.02	.14	6.2	31.7	2.42	Grass, mainly green, short.
		May, 1935	-15	-42	-12	.46	.02	.07	4.5	30.0	2.60	Grass, mainly green, short.
		Oct., 1935	-16	-38	-14	1.15	.27	.36	10.1	30.6	3.10	Grass, mainly green, short.
		Dec., 1933	-25	-36	-13	2.08	.05	.39	12.1	31.1	4.39	Grass, mainly green.
		Mar., 1934	-16	-33	-	1.20	.03	.25	8.2	32.4	3.07	Grass, mainly green, short.
		June, 1934	-12	-32	-08	.52	.02	.10	3.8	31.9	1.97	Grass, mainly brown, leafy.
		Sept., 1934	-085	-28	-07	.28	.01	.06	4.7	32.9	1.42	Grass, brown, leafy.
		Dec., 1934	-17	-31	-09	1.16	.12	.12	9.5	29.7	2.77	Grass, green, short.
		Mar., 1935	-14	-33	-10	1.09	.09	.30	5.8	32.6	2.68	Grass, green, short.
Mout Victory...	Woodhouse....	Aug., 1935	-13	-36	-11	.65	.02	.10	3.6	32.7	2.17	Grass, mainly brown, short.
		Jan., 1934	-22	-23	-14	1.81	.05	.39	12.0	30.2	4.01	Grass, mainly green, short.
		April, 1934	-19	-29	-11	1.05	.03	.15	8.7	33.9	2.26	Grass, mainly green, short.
		July, 1934	-096	-35	-08	trace	trace	.05	3.6	31.9	1.70	Grass, brown, leafy.
		Oct., 1934	-16	-27	-10	.85	.02	.11	7.5	31.1	2.38	Grass, leafy.
		Jan., 1935	-18	-31	-12	1.56	.04	.34	7.9	30.8	3.26	Grass, green, leafy.
		April, 1935	-16	-30	-08	.80	.02	.15	6.4	29.7	2.43	Grass, mainly green, short.
Amniesdale.....	Wepener.....	Sept., 1935	-11	-30	-06	1.13	.03	.18	7.4	29.5	2.34	Grass, short.
		Jan., 1934	-20	-21	-11	1.68	.03	.34	8.2	38.7	3.69	Grass, green.
		April, 1934	-11	-26	-09	.97	.02	.17	4.9	38.3	2.20	Grass, mainly green, long.
		July, 1934	-10	-25	-11	.42	.01	.09	2.7	38.0	1.76	Grass, brown.
		Sept., 1934	-063	-14	-08	trace	trace	.02	2.1	39.0	1.17	Grass, brown.
		Jan., 1935	-18	-25	-09	1.58	.04	.30	7.2	35.0	3.17	Grass, green, long.
		April, 1935	-12	-33	-12	.52	.02	.08	5.0	33.9	1.91	Grass, green, leafy.
Aug., 1935	-063	-19	-11	.16	trace	.07	2.7	35.7	1.22	Grass, brown.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 6 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Kruispoort.....	Wepener.....	Feb., 1934	.23	.27	.14	1.65	.05	.35	7.6	32.4	4.00	Grass, mainly green.
		May, 1934	.068	.30	.10	.42	trace	.04	2.9	40.2	1.66	Grass, mainly brown, long.
		Aug., 1934	.054	.30	.09	.18	trace	.01	2.5	40.0	1.26	Grass, brown.
		Nov., 1934	.18	.23	.10	1.10	.03	.24	9.9	33.3	2.48	Grass, green, long.
		Feb., 1935	.20	.30	.13	1.13	.05	.30	6.5	34.7	2.77	Grass, green, long.
		June, 1935	.07	.24	.06	.25	trace	.03	2.7	35.8	1.28	Grass, brown, leafy.
Yzevarkfontein..	Smithfield.....	Oct., 1935	.14	.24	.06	.60	.02	.11	5.8	34.4	1.87	Grass, mainly brown, leafy.
		Dec., 1933	.45	.42	.26	1.96	.30	.40	17.0	28.3	6.06	Grass, green, leafy.
		May, 1934	.15	.46	.11	.69	.03	.12	5.6	34.8	2.47	Grass.
		Jan., 1934	.23	.23	.17	2.08	.03	.35	11.9	33.2	4.08	Grass, green;
		May, 1934	.18	.49	.14	.90	.03	.15	5.1	31.8	3.04	Grass, mainly green.
		Feb., 1934	.19	.29	.17	1.81	.03	.10	9.2	35.8	3.72	Grass, mainly green.
Gronigen.....	Smithfield.....	June, 1934	.22	.34	.10	.96	.04	.13	4.7	35.1	2.65	Grass, mainly brown, leafy.
		Jan., 1934	.17	.23	.10	1.66	.08	.36	10.3	32.1	3.84	Grass, green.
		Nov., 1934	.11	.21	.09	1.43	trace	.28	8.5	36.3	2.51	Grass, mainly green, long.
		April, 1935	.15	.25	.07	.59	.02	.08	3.9	38.8	1.86	Grass, mainly brown, long.
		May, 1934	.10	.30	.12	.69	.02	.14	4.0	35.2	2.01	Grass, mainly brown.
		Oct., 1934	.13	.18	.07	.79	.03	.09	7.2	36.8	1.95	Grass, green, long.
McCaabespruit....	Ladybrand.....	Jan., 1935	.10	.18	.09	1.64	trace	.36	4.6	43.5	3.23	Grass, long.
		Aug., 1934	.075	—	.09	.28	.03	.02	6.3	35.0	1.37	Grass, brown.
		Mar., 1935	.16	.30	.07	.75	.03	.10	4.8	37.7	2.03	Grass, mainly green, long.
		May, 1935	.16	.31	.08	.68	.02	.13	4.6	39.4	2.08	Grass, long.
		Jan., 1934	.16	.24	.14	1.67	.03	.35	11.1	36.3	3.40	Grass, mainly green.
		April, 1934	.096	.26	.10	1.21	.03	.25	6.4	30.7	2.49	Grass, mainly green.
St. Mark.....	Zastron.....	July, 1934	.10	.28	.09	.51	.01	.07	3.6	36.2	1.69	Grass, brown.
		Oct., 1934	.13	.23	.12	.90	.02	.25	8.9	34.1	2.75	Grass, mainly green.
		Jan., 1935	.17	.30	.11	1.52	.04	.41	7.0	34.9	3.27	Grass, green.
		April, 1935	.14	.30	.12	.78	.06	.14	5.1	34.4	2.26	Grass, mainly green.
		July, 1935	.095	.21	.087	.46	.01	.05	2.6	37.4	1.52	Grass, brown.
		Oct., 1935	.21	.28	.11	1.71	.03	.50	12.5	34.6	3.80	Grass, green, leafy.
Rozenal.....	Zastron.....	Feb., 1934	.23	.21	.16	1.84	.04	.72	7.5	36.7	3.65	Grass, mainly green.
		May, 1934	.15	.24	.19	.73	.03	.21	5.1	39.1	2.33	Grass.
		Aug., 1934	.10	.17	.17	.60	.01	.10	4.0	39.8	1.74	Grass, brown.
		Nov., 1934	.18	.28	.17	1.61	trace	.37	9.8	35.8	3.16	Grass, mainly green, long.
		Feb., 1935	.11	.21	.08	.84	trace	.14	4.6	38.7	1.88	Grass, mainly green, leafy.
		May, 1935	.15	.23	.19	1.18	.09	.36	7.8	36.4	2.91	Grass, mainly green, leafy.
Aug., 1935	.08	.23	.11	.45	.03	.11	4.5	36.1	2.00	Grass, mainly brown, leafy.		



## AREA 6 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Kalkhoek.....	Zastron.....	Mar., 1934	.18	.31	.11	1.42	.03	.25	5.5	36.5	3.29	Grass, mainly green.	
		June, 1934	.097	.30	.07	.73	.02	.12	3.8	37.1	2.05	Grass, mainly brown.	
		Sept., 1934	.13	.33	.14	.42	.03	.05	.05	3.2	35.2	1.75	Grass, brown.
		Dec., 1934	.18	.25	.16	2.21	.12	.46	.12	8.6	37.3	3.99	Grass, mainly green.
		Mar., 1935	.21	.28	.07	.78	trace	.12	.12	5.4	36.8	2.12	Grass, leafy.
		June, 1935	.14	.24	.08	.57	trace	.10	.10	3.8	36.7	1.66	Grass, brown.
		Sept., 1935	.17	.53	.09	.88	.07	.13	.13	6.3	34.4	3.43	Grass.
		Dec., 1933	.15	.40	.18	1.53	.04	.32	.32	9.1	34.5	3.42	Grass, green.
		July, 1934	.025	.39	.11	.13	.02	.02	.02	4.3	33.9	1.50	Grass, mainly brown, short.
Welgegend.....	Vrede.....	Feb., 1935	.094	.28	.10	.76	.06	.21	4.8	35.3	1.99	Grass, mainly green, leafy.	
		Aug., 1935	.085	.30	.08	.33	.04	.08	3.0	37.5	1.58	Grass, brown, short.	
		Jan., 1934	.10	.34	.12	.97	.02	.16	.16	6.5	31.4	2.71	Grass, mainly green, short.
Venterskloof.....	Vrede.....	Aug., 1934	.047	.36	.09	.12	trace	.02	2.9	32.5	1.22	Grass, brown, leafy.	
		April, 1935	.088	.47	.16	.42	trace	.19	.43	30.8	2.11	Grass, mainly green, short.	
		June, 1934	.042	.42	.15	.42	trace	.07	.07	3.1	32.6	1.84	Grass, brown, leafy.
Aanvang.....	Vrede.....	Sept., 1934	.053	.37	.05	.22	trace	.03	6.0	32.5	1.56	Grass, mainly brown, leafy.	
		Jan., 1935	.096	.39	.12	—	.02	.11	4.4	31.8	2.28	Grass, mainly green, leafy.	
		June, 1935	.05	.34	.07	.21	trace	.05	.05	3.5	33.6	1.31	Grass, brown, leafy.
		April, 1935	.14	.30	.10	.86	.06	.18	.18	6.4	33.8	2.21	Grass, mainly green, leafy.
		July, 1935	.062	.20	.08	.26	trace	.05	.05	2.5	37.7	1.20	Grass, brown.
Rondedraai.....	Harrismith.....	Oct., 1935	.047	.20	.04	.14	.04	—	3.2	38.1	1.18	Grass, brown.	
		May, 1935	.096	.31	.13	.79	.01	.11	.11	3.1	39.4	2.09	Grass, mainly brown.
		Aug., 1935	.05	.25	.07	.32	trace	.01	.01	3.0	39.6	1.41	Grass, brown, leafy.
De Hoop.....	Harrismith.....	June, 1935	.055	.23	.11	.50	trace	.04	3.7	40.1	1.37	Grass, mainly brown.	
		Sept., 1935	.082	.28	.07	.27	.02	.03	2.9	35.3	1.51	Grass, brown, leafy.	
		Dec., 1933	.18	.38	.17	1.64	.04	.34	.34	10.1	33.0	3.65	Grass, mainly green and bush ; mostly grass.
Shorthorn.....	Frankfort.....	Mar., 1934	.08	.58	.21	1.03	.02	.16	5.9	34.5	3.32	Grass, mainly green, and bush ; mostly grass.	
		July, 1934	.035	.61	.19	.13	trace	.01	2.9	37.9	2.25	Grass, brown and bush ; mostly grass.	
		Dec., 1934	.25	.49	.22	1.66	.36	.41	.41	9.6	31.7	5.50	Grass, mainly green, and bush ; mostly grass.
		Jan., 1935	.14	.32	.21	2.05	.03	.34	.34	6.9	34.8	4.06	Grass, green, and bush ; mostly grass.
		June, 1935	.054	.24	.06	.19	trace	.04	.04	2.9	43.0	1.11	Grass, brown, leafy.
Aug., 1935	.11	.45	.23	.85	.04	.32	.32	5.0	35.3	3.13	Grass, mainly brown, leafy.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 6 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Egge.....	Frankfort.....	Jan., 1934	.15	.45	.23	1.48	.02	.28	8.8	39.8	4.37	Grass, mainly green and bush ; mostly grass.	
		April, 1934	.07	.53	.16	.90	.02	.19	5.5	34.8	2.87	Grass and bush ; mostly grass.	
		July, 1934	.036	.38	.15	.11	.01	.02	.57	3.4	38.1	1.46	Grass, brown.
		Nov., 1934	.18	.46	.20	2.15	.13	.13	.11	11.1	35.2	4.62	Grass, leafy and bush ; mostly grass.
		May, 1935	.084	.64	.24	.74	.02	.16	.46	4.6	37.5	3.10	Grass, brown and bush ; mostly grass.
		Oct., 1935	.067	.26	.06	.18	.02	.02	4.0	35.8	1.45	Grass, brown, leafy.	
Sandput.....	Frankfort.....	Feb., 1934	.083	.17	.07	1.20	.01	.29	3.9	41.3	2.14	Grass, mainly green, long.	
		May, 1934	.05	.37	.13	.45	.01	.12	4.6	38.9	1.95	Grass, mainly brown, and bush ; mostly grass.	
		Sept., 1934	.067	.23	.10	.36	trace	.06	.06	5.2	39.8	1.46	Grass, mainly brown.
		Feb., 1935	.14	.40	.19	1.41	trace	.16	.16	7.1	34.5	3.13	Grass, mainly green.
		April, 1935	.086	.46	.13	.69	trace	.02	.02	4.7	34.6	2.36	Grass, mainly brown, leafy and bush ; mostly grass.
		Sept., 1935	.07	.30	.08	.29	.02	.02	4.5	37.9	1.78	Grass, brown, leafy.	
Sebastopol.....	Bethlehem.....	Dec., 1933	.13	.38	.14	1.99	.05	.32	11.1	31.6	4.27	Grass, mainly green.	
		Mar., 1934	.11	.27	.15	1.24	.05	.24	5.5	33.4	2.89	Grass, green.	
		May, 1934	.046	.29	.11	.58	.01	.11	.11	3.9	36.4	1.75	Grass, mainly brown, long.
		Oct., 1934	.12	.20	.12	1.33	.04	.27	.27	8.4	31.9	2.81	Grass, green.
		Jan., 1935	.097	.26	.13	1.14	.02	.28	.28	6.1	32.7	2.29	Grass, green.
		April, 1935	.11	.32	.12	.78	.06	.14	4.8	34.4	3.38	Grass, mainly green, leafy.	
Drakenstein.....	Bethlehem.....	Jan., 1934	.27	.24	.16	2.05	.06	.44	13.0	32.1	4.31	Grass, mainly green, short.	
		April, 1934	.098	.31	.14	1.13	.02	.15	5.1	33.3	2.65	Grass, mainly green.	
		July, 1934	.057	.31	.08	.11	trace	.02	.02	3.7	35.2	1.29	Grass, brown, leafy.
		Nov., 1934	.09	.19	.09	.95	trace	.20	.20	5.6	35.0	1.88	Grass, mainly green.
		Feb., 1935	.07	.33	.12	1.35	trace	.24	.24	5.2	32.6	2.90	Grass, green, leafy.
		May, 1935	.08	.32	.10	.40	trace	.08	3.8	35.7	1.82	Grass, brown, leafy.	
Warsaw.....	Bethlehem.....	Feb., 1934	.12	.23	.14	1.64	.03	.27	9.3	33.1	3.38	Grass, green, short.	
		June, 1934	.066	.33	.07	.18	.01	.02	2.7	34.6	1.44	Grass, mainly brown, leafy.	
		Sept., 1934	.06	.29	.06	.29	trace	.05	.05	5.8	33.8	1.67	Grass, mainly brown, leafy.
		Dec., 1934	.077	.18	.08	1.09	.04	.17	.17	4.8	37.0	2.13	Grass, mainly green, long.
		Mar., 1935	.10	.38	.11	.81	.02	.11	.11	6.5	35.6	2.44	Grass, green, leafy.

## AREA 6 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Driekuil.....	Bethlehem.....	Feb., 1934	.12	.26	.11	1.07	.03	.21	6.9	41.1	2.56	Grass, mainly green.	
		Aug., 1934	.05	.28	.08	.09	trace	Trace	3.3	41.8	1.18	Grass, brown, leafy.	
		Nov., 1934	.14	.25	.10	1.45	trace	.37	.82	8.2	36.1	2.88	Grass, mainly green.
		Mar., 1935	.11	.42	.07	.73	trace	.12	4.3	4.3	38.5	2.22	Grass, mainly green.
Grootkloof.....	Ficksburg.....	Dec., 1933	.20	.18	.11	1.67	.04	.30	6.0	34.8	3.59	Grass, green.	
		Mar., 1934	.19	.23	.21	1.79	.05	.32	7.4	39.5	3.57	Grass, mainly green.	
		June, 1934	.064	.23	.07	.44	.01	.06	4.0	35.4	1.45	Grass, mainly brown.	
		Sept., 1934	.095	.31	.05	.41	.02	.06	6.2	33.0	1.67	Grass, mainly brown, leafy.	
		Dec., 1934	.11	.28	.10	1.05	trace	.32	7.4	35.4	2.47	Grass, green, leafy.	
		April, 1935	.11	.29	.07	.68	trace	.07	4.8	32.3	1.93	Grass.	
Tweefontein.....	Ficksburg.....	Jan., 1934	.26	.22	.14	2.15	.05	.41	10.5	36.8	4.53	Grass, green.	
		April, 1934	.13	.26	.12	1.31	.03	.20	6.9	34.1	2.86	Grass, mainly green.	
		July, 1934	.11	.36	.16	.98	.02	.23	5.7	34.0	2.60	Grass, brown, leafy.	
		Oct., 1934	.10	.26	.06	.57	.02	.09	7.4	31.6	1.71	Grass, mainly green, leafy.	
		Feb., 1935	.13	.21	.05	.65	trace	.13	5.1	35.9	1.51	Grass.	
May, 1935	.09	.22	.05	.30	trace	.05	4.2	38.0	1.10	Grass, brown.			

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 7.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Sterkspruit, P.O. Amersfoort	Wakkerstroom.	Nov., 1933	.19	.48	.15	1.27	.04	.32	11.8	31.7	3.20	Grass, green, short.	
		Feb., 1934	.073	.24	.12	1.88	.03	.32	11.0	38.0	3.14	Grass, mainly green.	
		May, 1934	.025	.40	.16	.61	.02	.10	3.4	3.4	34.8	2.04	Grass, mainly brown, leafy.
		Aug., 1934	.024	.29	.11	.13	.01	.01	2.4	38.2	1.26	Grass, brown, leafy.	
		Nov., 1934	.14	.35	.22	1.11	.03	.27	8.7	35.3	2.93	Grass, green.	
		Feb., 1935	.075	.43	.19	.80	trace	.87	4.5	32.6	2.31	Grass, mainly green.	
		May, 1935	.054	.29	.16	.21	trace	.051	2.5	34.4	1.44	Grass, mainly brown, leafy.	
		Sept., 1935	.082	.29	.11	.09	trace	.025	2.1	39.0	1.41	Grass, brown, leafy.	
		Dec., 1933	.12	.49	.17	1.02	.03	.23	8.3	8.3	35.4	3.00	Grass, green.
Koppieskraal, P.O. Amersfoort	Wakkerstroom.	Mar., 1934	.093	.39	.16	.94	.02	.16	5.8	33.7	2.79	Grass, mainly green.	
		June, 1934	.025	.38	.15	.16	.01	.03	4.3	40.1	1.38	Grass, brown, leafy.	
		Sept., 1934	.028	.33	.11	.10	trace	.03	3.0	38.7	1.34	Grass, brown, leafy.	
		Dec., 1934	.19	.37	.23	.92	.03	.16	7.4	7.4	34.4	2.32	Grass, green, leafy.
		Mar., 1935	.077	.31	.13	.77	trace	.10	4.8	4.8	35.5	1.91	Grass, green.
		June, 1935	.066	.34	.10	.26	trace	.05	2.7	33.9	1.41	Grass, brown, short.	
		Oct., 1935	.037	.39	.04	.19	.02	.02	3.0	3.0	35.8	1.54	Grass, brown, short.
		Jan., 1934	.10	.37	.13	.87	.03	.15	—	—	35.6	2.26	Grass, green.
		April, 1934	.048	.29	.09	.69	.01	.10	6.5	6.5	33.2	1.62	Grass, leafy.
Enon, P.O. Amersfoort	Wakkerstroom.	July, 1934	.032	.30	.08	.14	trace	.02	3.9	37.7	1.19	Grass, brown, leafy.	
		Oct., 1934	.057	.23	.06	.26	.02	.05	4.1	37.5	1.63	Grass, mainly green, leafy.	
		Jan., 1935	.10	.37	.15	1.04	.04	.22	6.2	6.2	36.3	2.48	Grass, green.
		April, 1935	.048	.36	.16	.67	.02	.08	3.2	3.2	33.6	2.10	Grass, mainly green.
		Aug., 1935	.051	.37	.13	.18	trace	.04	2.8	2.8	35.2	1.46	Grass, brown, leafy.
		Nov., 1933	.23	.70	.18	1.91	.03	.48	12.3	12.3	32.9	5.48	Grass, mainly green and bush.
		Feb., 1934	.13	.35	.15	1.50	.02	.30	7.8	7.8	34.9	3.09	Grass and shrub; mostly grass.
		May, 1934	.078	.23	.11	.90	trace	.27	5.2	5.2	34.7	2.12	Grass.
		Aug., 1934	.10	.32	.18	.63	.01	.06	6.7	6.7	35.9	2.11	Grass, brown, leafy.
Buitenzorg No.308	Wakkerstroom.	Nov., 1934	.088	.26	.09	.61	.02	.18	5.5	31.7	1.75	Grass, mainly brown, short.	
		Feb., 1935	.10	.30	.12	1.18	.07	.25	6.7	6.7	33.6	2.65	Grass, green, short.
		May, 1935	.084	.31	.08	.48	.02	.08	3.8	3.8	33.6	1.57	Grass, leafy.
		Aug., 1935	.045	.33	.10	.21	.02	.05	3.1	3.1	34.8	1.45	Grass, brown, leafy.
		Dec., 1933	.17	.28	.13	1.61	.05	.35	8.4	8.4	35.9	3.37	Grass, mainly green.
		Mar., 1934	.11	.34	.14	.95	trace	.22	5.6	5.6	36.8	2.16	Grass, mainly green, short.
		June, 1934	.054	.32	.10	.19	.01	.05	4.3	4.3	32.3	1.60	Grass, mainly brown, leafy.
		Sept., 1934	.046	.31	.06	.18	trace	.03	3.6	3.6	35.1	1.25	Grass, brown, leafy.
		Dec., 1934	.14	.32	.13	1.39	.03	.22	8.4	8.4	33.1	2.83	Grass, green, short.
Driefontein No. 107	Wakkerstroom.	Mar., 1935	.12	.33	.12	.75	trace	.08	5.4	34.0	2.07	Grass, mainly green, short.	
		June, 1935	.062	.30	.10	.40	trace	.07	3.6	3.6	33.7	1.46	Grass, brown, short.
		Sept., 1935	.039	.34	.09	.13	.02	.05	2.7	2.7	37.5	1.47	Grass, brown, short.

## AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Mooiplaas No. 17.	Wakkerstroom.	Jan., 1934	.14	.39	.12	.98	.03	.17	7.2	37.8	2.57	Grass, mainly green.
		April, 1934	.17	.43	.13	1.40	.05	.27	7.8	29.3	3.06	Grass, mainly green.
		July, 1934	.067	.41	.09	.21	trace	.03	3.2	36.3	1.69	Grass, brown, leafy.
		Oct., 1934	.16	.26	.14	1.28	.04	.36	11.7	31.5	3.19	Grass, leafy.
		Jan., 1935	.13	.46	.13	1.25	.03	.28	7.8	36.9	3.11	Grass, green, leafy.
		April, 1935	.081	.34	.12	.66	.08	.09	4.6	32.1	2.01	Grass, mainly green; short.
		July, 1935	.072	.26	.07	.33	trace	.04	2.4	38.6	1.37	Grass, brown, leafy.
		Oct., 1935	.064	.27	.07	.33	.02	.02	4.8	33.4	1.50	Grass, mainly brown, leafy.
		Nov., 1933	.17	.23	.13	1.56	trace	.33	8.9	36.2	3.32	Grass, mainly green.
		Feb., 1934	.12	.34	.11	1.12	.01	.16	7.2	34.0	2.81	Grass, mainly green, short.
May, 1934	.073	.35	.09	.54	.01	.06	3.1	31.7	1.81	Grass, mainly brown, short.		
Aug., 1934	.042	.30	.07	.09	trace	.01	2.8	39.5	1.12	Grass, brown, short.		
Nov., 1934	.14	.33	.11	1.23	trace	.24	7.8	36.3	2.88	Grass, green, leafy.		
Feb., 1935	.066	.28	.07	.93	trace	.17	4.5	37.5	2.10	Grass, mainly green, leafy.		
May, 1935	.068	.29	.12	.25	.01	.08	3.2	30.7	1.34	Grass, mainly brown, short.		
Aug., 1935	.059	.28	.09	.30	trace	.07	2.9	38.4	1.40	Grass, brown, leafy.		
Rusthoek, P.O. Volksrust	Wakkerstroom.	Dec., 1933	.20	.27	.13	1.64	.05	.32	8.1	34.6	3.39	Grass, mainly green.
		Mar., 1934	.094	.55	.17	.99	.01	.15	7.9	34.8	3.11	Grass, mainly green short and bush; mostly grass.
		June, 1934	.061	.37	.09	.18	trace	.03	5.0	33.3	1.66	Grass, brown, leafy.
		Sept., 1934	.069	.37	.08	.09	.01	.02	4.4	35.5	1.53	Grass, brown, leafy.
		Dec., 1934	.15	.32	.11	1.34	trace	.24	7.7	35.8	2.74	Grass, green, leafy.
		Mar., 1935	.093	.39	.09	.79	trace	.06	6.4	33.7	2.48	Grass, green, leafy.
		June, 1935	.072	.39	.10	.23	trace	.05	3.3	35.0	1.79	Grass, mainly brown, short.
		Sept., 1935	.039	.42	.06	.10	trace	.03	2.7	34.8	1.70	Grass, brown, leafy.
		Jan., 1934	.16	.41	.15	1.48	.07	.24	10.2	31.6	3.15	Grass, mainly green, short.
April, 1934	.061	.35	.15	.61	.02	.09	4.2	32.4	1.50	Grass, mainly brown, short.		
July, 1934	.042	.31	.08	.15	trace	.03	3.3	33.0	1.41	Grass, brown, leafy.		
Oct., 1934	.057	.29	.09	.30	.01	.04	6.8	32.2	1.80	Grass, leafy.		
Jan., 1935	.085	.27	.13	.88	.02	.13	5.8	34.3	2.05	Grass, mainly green, leafy.		
April, 1935	.13	.39	.12	.81	.02	.93	6.3	34.7	2.38	Grass, green, short.		
July, 1935	.054	.36	.10	.18	.03	.05	3.2	35.3	1.74	Grass, brown, leafy.		
Oct., 1935	.046	.35	.05	.12	.02	.02	3.5	37.7	1.85	Grass, brown, leafy.		
Hamelfontein No. 210	Standerton.....	Nov., 1933	.24	.27	.14	2.26	.05	.44	13.9	34.9	4.42	Grass, green.
		Feb., 1934	.16	.31	.15	1.99	.02	.38	11.0	34.8	4.55	Grass, mainly green.
		June, 1934	.048	.17	.04	.01	.02	—	40.1	39.8	0.63	Grass, brown.
		Sept., 1934	.041	.24	.04	.06	trace	.17	2.8	39.8	1.06	Grass, brown, leafy.
		Dec., 1934	.20	.24	.11	1.66	.04	.16	7.8	38.0	3.15	Grass, mainly green.
		Mar., 1935	.082	.30	.09	.97	.02	.22	6.0	34.9	2.49	Grass.
		June, 1935	.12	.31	.06	.41	trace	.07	3.2	39.2	1.55	Grass, mainly brown, leafy.
		Oct., 1935	.075	.20	.09	.48	.03	.05	4.6	38.2	1.50	Grass, brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Kromdraai No. 16	Standerton.....	Dec., 1933	.13	.21	.09	1.34	.05	.29	5.7	31.7	2.77	Grass.	
		Mar., 1934	.075	.22	.11	1.07	.04	.21	4.1	38.9	2.03	Grass, mainly brown.	
		Aug., 1934	.034	.26	.08	.10	trace	.02	.29	2.9	35.4	1.10	Grass, brown, leafy.
		Nov., 1934	.12	.24	.09	.93	trace	.34	7.5	38.1	2.08	Grass, leafy.	
		Feb., 1935	.12	.36	.09	.71	.03	.14	4.6	39.5	2.17	Grass, mainly green, long.	
		May, 1935	.036	.17	.07	.11	trace	.03	2.3	41.1	.86	Grass, brown.	
		Sept., 1935	.057	.28	.09	.19	.02	.02	3.7	38.5	1.62	Grass, brown, leafy.	
		Jan., 1934	.13	.19	.13	1.49	.04	.30	8.0	36.4	2.65	Grass, mainly green.	
		April, 1934	.10	.25	.10	.91	.03	.16	3.6	33.5	1.92	Grass.	
Rooikoppen.....	Standerton.....	May, 1934	.052	.25	.08	.36	.02	.19	4.1	41.0	1.44	Grass, mainly brown.	
		July, 1934	.052	.31	.16	.65	.01	.08	3.7	39.1	2.08	Grass, brown, leafy.	
		Oct., 1934	—	.22	.12	.80	.02	—	4.0	37.7	1.71	Grass, brown, leafy.	
		Jan., 1935	.14	.24	.15	1.85	.05	.39	6.0	36.2	3.56	Grass, mainly green, long.	
		April, 1935	.20	.30	.14	.78	.03	.11	4.4	34.6	2.39	Grass, mainly green, long.	
		Aug., 1935	.069	.30	.11	.33	.02	.06	2.2	35.8	1.59	Grass, brown, long.	
		Dec., 1933	.18	.20	.11	1.63	.02	.20	8.9	37.0	3.41	Grass, mainly green.	
		Mar., 1934	.048	.17	.08	1.00	.01	.16	4.3	42.5	1.94	Grass, long.	
		April, 1935	.052	.34	.09	.31	.03	.06	3.9	29.8	2.68	Grass.	
Vogelstruisfontein.	Standerton.....	Jan., 1934	.25	.38	.19	2.59	.04	.64	10.1	29.3	6.36	Grass, mainly green, leafy.	
		May, 1934	.034	.28	.11	.55	trace	.09	3.5	39.8	1.55	Grass, mainly brown, long.	
		May, 1935	.088	.33	.10	.45	.03	.06	3.7	35.0	1.70	Grass, brown, leafy.	
		Mar., 1935	.094	.30	.17	.81	trace	.13	4.6	35.7	2.33	Grass, mainly green.	
		July, 1935	.082	.22	.09	.68	.03	.12	2.9	39.8	1.71	Grass, brown.	
Grootrietvlei, P.O. Dirkiesdorp	Wakkerstroom..	Oct., 1935	.049	.31	.09	.28	.03	.07	4.2	33.6	1.64	Grass, mainly brown.	
		Dec., 1933	.17	.59	.54	1.90	.11	.48	10.2	32.3	5.40	Grass, mainly green and bush ; mostly grass.	
		May, 1934	.089	.42	.17	.97	.02	.49	4.3	36.8	2.64	Grass and bush ; mostly grass.	
Pypklipberg.....	Ermelo.....	July, 1934	.034	.47	.11	.32	trace	.08	2.8	39.1	1.87	Grass, mainly brown and bush ; mostly grass.	
		Nov., 1934	.095	.34	.19	.98	.05	.26	4.4	36.9	2.48	Grass, mainly green and bush ; mostly grass.	
		Feb., 1935	.15	.47	.26	1.72	.05	.62	6.8	37.2	3.98	Grass, mainly green and bush ; mostly grass.	
		May, 1935	.094	.92	.37	.97	.20	.29	4.8	31.1	4.37	Grass, mainly green.	
		Aug., 1935	.042	.40	.15	.19	trace	.08	2.3	44.7	1.55	Grass, mainly brown and bush ; mostly grass.	

## AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Commetjie, P.O. Volksrust	Wakkerstroom.	Feb., 1934	.10	.36	.17	1.32	.07	.36	5.9	36.0	3.12	Grass, mainly green and bush mostly grass.	
		June, 1934	.061	.27	.14	.55	.02	.14	.45	4.5	38.9	1.62	Grass, mainly brown.
		Sept., 1934	.050	.51	.12	.46	.03	.12	.44	4.4	38.0	1.66	Grass, mainly brown.
		Dec., 1934	.092	.51	.24	1.58	.08	.57	.62	6.2	38.6	3.90	Grass, mainly green and bush; mostly grass.
		Mar., 1935	.091	.34	.16	.62	.11	.21	.21	4.2	37.0	2.14	Grass, mainly green, long.
		June, 1935	.053	.51	.25	.45	.03	.31	.31	3.1	38.0	2.54	Grass, mainly brown.
		April, 1934	.15	.29	.13	1.26	.05	.33	.33	5.3	39.6	2.64	Grass, long.
		Aug., 1934	.054	.25	.16	.26	.02	.06	.06	3.5	38.2	1.32	Grass, mainly brown.
		Nov., 1934	.077	.29	.10	.98	.07	.31	.46	4.6	41.8	2.35	Grass, mainly green, long.
		Jan., 1935	.10	.41	.16	.89	.12	.21	.77	7.7	34.1	2.93	Grass, mainly green, short.
		April, 1935	.087	.57	.27	1.21	.03	.22	.47	4.7	38.4	2.77	Grass, mainly green, long.
		July, 1935	.053	.24	.09	.53	.02	.13	2.4	1.3	41.4	1.41	Grass, long.
Sept., 1935	.055	.17	.10	.78	.06	.37	.40	4.0	39.6	1.98	Grass, mainly brown, long.		
Vergenoegdheid...	Ermelo.....	Dec., 1933	.099	.21	.19	.72	.41	.37	6.9	37.7	2.74	Grass, mainly brown.	
		Mar., 1934	.086	.72	.38	1.15	.16	.28	7.2	33.5	3.99	Grass and bush; mostly grass.	
		May, 1934	.11	—	.20	1.17	.09	.63	7.9	34.7	3.01	Grass, mainly green.	
		Aug., 1934	.083	.28	.20	.75	.12	.33	5.3	37.7	2.38	Grass, mainly brown.	
		Nov., 1934	.15	.30	.21	1.80	.08	.56	12.6	33.4	3.87	Grass, green.	
		Feb., 1935	.19	.37	.32	2.76	.03	.55	11.6	32.9	5.38	Grass, green.	
		May, 1935	.072	.26	.14	.41	.03	.09	4.3	36.7	1.80	Grass, mainly brown.	
		Aug., 1935	.064	.25	.14	.51	.04	.15	4.4	4.4	37.7	2.18	Grass, mainly brown.
		Jan., 1934	.16	.26	.30	1.61	.13	.34	.34	9.5	37.1	3.43	Grass, mainly green.
		June, 1934	.11	.31	.25	1.34	.13	.44	.44	7.4	35.8	3.43	Grass.
		Dec., 1934	.22	.35	.29	2.21	.06	.54	11.8	36.2	4.86	3.90	Grass, green.
		Mar., 1935	.097	.36	.27	1.78	.03	.38	6.6	6.6	39.8	3.90	Grass.
June, 1935	.11	.32	.21	.66	.01	.12	5.1	5.1	37.1	2.32	Grass, leafy.		
Sept., 1935	.091	.26	.16	.74	.04	.26	5.4	5.4	42.8	2.23	Grass, mainly green.		
Welkom, Mahamba	Zwasikand.....	Feb., 1934	.14	.36	.27	1.74	.11	.58	6.4	34.4	3.98	Grass, mainly green.	
		April, 1934	.12	.32	.21	1.30	.12	.68	6.9	34.9	3.08	Grass, mainly green.	
		July, 1934	.061	.30	.17	.67	.04	.18	4.3	38.0	2.04	Grass, mainly brown, long.	
		Oct., 1934	.14	.25	.23	1.43	.27	.76	8.6	37.0	4.04	Grass, mainly green.	
		Jan., 1935	.14	.29	.32	2.29	.07	.54	10.7	35.8	4.70	Grass, green.	
		April, 1935	.079	.45	.30	1.38	.08	.37	6.2	34.0	3.77	Grass.	
		Oct., 1935	.056	.21	.19	.84	.07	.29	5.4	5.4	41.5	2.49	Grass.
		Nov., 1933	.12	.26	.11	1.16	.01	.29	.29	7.9	35.6	3.34	Grass, mainly green.
		July, 1934	.036	.59	.09	.14	trace	.03	2.7	35.9	1.40	3.34	Grass, brown, leafy.
		Oct., 1934	.052	.23	.08	.26	.02	.05	3.5	3.5	38.2	1.32	Grass, mainly brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Witbank No. 99.	Ermelo.....	Aug., 1934	.036	.28	.12	.19	.01	.03	3.4	38.2	1.43	Grass, brown, leafy.	
		Dec., 1934	.12	.23	.09	1.25	.04	.19	8.5	36.3	2.60	Grass, leafy.	
		Mar., 1935	.069	.44	.08	.57	trace	trace	.09	3.7	32.8	Grass, mainly green, leafy.	
		June, 1935	.062	.35	.10	.32	trace	trace	.08	2.9	34.4	Grass, brown, leafy.	
		Oct., 1935	.083	.48	.16	.24	.01	.04	.04	3.4	32.9	Grass, brown, leafy.	
		Nov., 1933	.062	.10	.07	.77	.02	.15	.15	6.0	35.8	Grass, mainly green.	
		Feb., 1934	.092	.15	.12	1.52	.02	.30	.30	5.1	39.3	Grass, mainly green.	
		May, 1934	.032	.57	.17	.57	.01	.13	.13	2.5	36.8	Grass, mainly brown.	
Merrickloof, P.O. Amsterdam	Ermelo.....	Aug., 1934	.044	.23	.12	.20	trace	.02	4.0	44.0	1.17	Grass, brown.	
		Nov., 1934	.11	.29	.14	1.55	trace	.27	8.9	32.3	3.19	Grass, green, short.	
		Feb., 1935	.11	.17	.06	1.66	trace	.36	.36	6.3	38.2	Grass, green.	
		May, 1935	.06	.17	.09	1.08	.05	.26	.26	4.4	40.2	Grass, mainly green, long.	
		Sept., 1935	.041	.15	.07	.27	.05	.06	.06	3.1	43.5	Grass, brown, long.	
		Dec., 1933	.12	.17	.13	1.97	.03	.39	.39	9.2	42.0	Grass, mainly green.	
		Mar., 1934	.11	.22	.11	1.08	.02	.17	.17	4.4	41.5	Grass, mainly green, long.	
		June, 1934	.053	.18	.10	.62	.02	.11	.11	4.3	38.5	Grass, mainly brown.	
The Chimie, P.O. Amsterdam	Ermelo.....	Sept., 1934	.034	.19	.10	.11	trace	.03	2.8	39.9	1.09	Grass, mainly green.	
		April, 1935	.053	.18	.10	.77	.03	.17	3.8	36.1	1.73	Grass, mainly green, long.	
		July, 1935	.052	.18	.10	.33	trace	.10	.10	2.6	40.0	Grass, brown, long.	
		Aug., 1935	.074	.30	.08	.35	.02	.08	.08	3.8	40.6	Grass, brown, leafy.	
		Jan., 1934	.10	.18	.13	1.50	trace	.24	.24	5.9	43.7	Grass, mainly green.	
		April, 1934	.079	.16	.14	1.28	.04	.22	.22	5.7	37.6	Grass, mainly green.	
		July, 1934	.029	.16	.09	.44	trace	.10	.10	3.3	41.9	Grass, brown.	
		Oct., 1934	.062	.14	.07	.55	.01	.13	.13	5.4	37.6	Grass, mainly green.	
Stafford.....	Ermelo.....	Jan., 1935	.084	.20	.16	1.51	trace	.25	6.7	35.8	2.70	Grass, green.	
		June, 1935	.038	.16	.08	.42	trace	.05	2.3	41.4	1.12	Grass, brown.	
		Oct., 1935	.057	.11	.04	.31	trace	.04	.04	4.8	40.4	Grass, mainly brown.	
		Nov., 1933	.063	.15	.06	.55	.02	.17	.17	6.2	37.5	Grass, mainly green.	
		Feb., 1934	.11	.21	.15	1.22	trace	.27	.27	6.8	36.8	Grass, mainly green, short.	
		May, 1934	.044	.16	.11	.68	.01	.13	.13	3.5	35.3	Grass, mainly brown, short.	
		Aug., 1934	.033	.22	.12	.11	trace	.01	.27	34.4	1.13	Grass, brown, leafy.	
		Nov., 1934	.11	.22	.14	1.39	trace	.31	.31	8.7	35.1	Grass, green, short.	
Ndhlorudwalile, P.O. Amsterdam	Ermelo.....	Dec., 1933	.10	.31	.15	1.25	.04	.33	8.0	35.6	3.25	Grass, mainly green.	
		Mar., 1934	.083	.40	.16	1.16	.02	.26	7.1	35.5	3.11	Grass, mainly green, short.	
		June, 1934	.041	.49	.11	.47	.02	.14	.14	2.8	34.1	2.01	Grass, mainly brown, leafy.
		Sept., 1934	.064	.35	.09	.40	trace	.09	.09	5.0	36.2	2.01	Grass, mainly brown, leafy.
		Dec., 1934	.098	.48	.13	1.24	.09	.36	.36	7.0	35.1	3.05	Grass, green, short.
		Feb., 1935	.082	.25	.14	1.01	trace	.15	.15	4.8	35.6	2.47	Grass, mainly green, short.
		May, 1935	.05	.35	.18	.51	trace	.22	.22	3.6	37.1	2.15	Grass, short.
		Aug., 1935	.038	.34	.09	.21	.02	.08	.08	3.2	39.2	1.85	Grass, brown, short.



## AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Steenbokspruit No. 88, P.O. Bankop	Ermelo.....	Jan., 1934	.09	.22	.12	1.36	.02	.26	6.0	36.2	2.65	Grass, mainly green.
		April, 1934	.059	.24	.11	.73 trace		.20	5.1	33.0	2.04	Grass, short.
		July, 1934	.034	.25	.08	.13	.01	.03	2.8	36.7	1.24	Grass, brown, leafy.
		Oct., 1934	.17	.46	.21	1.53	.11	.50	7.7	29.4	4.25	Grass, mainly green and bush, mostly grass.
Herford No. 223 P.O. The Brook	Ermelo.....	Jan., 1935	.088	.21	.15	1.18	.02	.23	5.3	34.9	2.78	Grass, mainly green, short.
		April, 1935	.083	.33	.16	.81 trace		.21	6.0	34.4	2.70	Grass, leafy.
		Oct., 1935	.077	.41	.15	.34	.08	.13	5.5	34.9	2.91	Grass, brown, short.
		Nov., 1933	.095	.16	.09	1.02	.02	.26	6.9	32.2	2.79	Grass, mainly brown, short.
		Feb., 1934	.096	.18	.11	1.28	.02	.27	8.2	39.8	2.76	Grass, mainly green, short.
Meadow Bank, P.O. The Brook	Ermelo.....	May, 1934	.045	.23	.07	.68	.02	.21	4.6	34.5	1.56	Grass, short.
		Aug., 1934	.051	.32	.09	.17 trace		.02	2.9	36.3	1.31	Grass, mainly brown.
		Nov., 1934	.10	.17	.12	1.42 trace		.36	10.0	32.4	2.74	Grass, green, short.
		Dec., 1933	.11	.16	.13	1.77	.04	.58	9.5	34.9	3.91	Grass, short.
		Mar., 1934	.10	.25	.13	1.23	.32	.40	6.9	33.8	3.22	Grass, mainly green, short.
		June, 1934	.034	.14	.07	.27	.01	.07	3.3	36.5	1.36	Grass, mainly brown, short.
Waverley, P.O. The Brook	Ermelo.....	Sept., 1934	.10	.11	.09	1.18	.03	.27	8.0	—	2.37	Grass, mainly green, short.
		Dec., 1934	.13	.20	.11	1.82	.05	.38	10.4	30.7	2.98	Grass, green, short.
		Mar., 1934	.091	.27	.15	1.19	.02	.23	6.0	36.5	2.65	Grass, mainly green, short.
		April, 1934	.11	.27	.13	1.15	.04	.22	4.8	38.9	2.45	Grass, short.
Simonsdal No. 162, P.O. Lake Chrissie	Ermelo.....	July, 1934	.045	.30	.13	.39 trace		.04	2.9	38.8	1.76	Grass, brown, leafy.
		Oct., 1934	.078	.27	.10	.68	.03	.14	5.0	32.1	1.71	Grass, mainly green, leafy.
Grasdal, P.O. Lake Chrissie	Ermelo.....	Nov., 1933	.24	.25	.09	2.10	.01	.41	10.2	33.0	4.17	Grass, mainly green.
		Feb., 1934	.10	.24	.13	1.00	.09	.51	7.0	33.9	3.04	Grass, mainly green.
		Dec., 1933	.11	.27	.15	1.78	.04	.40	8.5	35.9	3.78	Grass, mainly green and bush.
Femie Hough No. 189	Ermelo.....	Mar., 1934	.069	.28	.14	.95	.02	.27	5.6	32.6	2.26	Grass, mainly green.
		Jan., 1934	.11	.17	.12	1.71	.05	.43	7.8	35.6	3.18	Grass, mainly green.
Houtbos, P.O. Os-hoek	Ermelo.....	April, 1934	.14	.36	.14	.91	.04	.28	4.4	33.3	2.19	Grass, leafy.
		Nov., 1933	.13	.17	.12	1.31	.05	.35	9.9	33.9	3.34	Grass, mainly green.
Nakensvlei.....	Belfast.....	Feb., 1934	.10	.35	.17	1.44	.13	.44	5.9	35.1	3.50	Grass, mainly green.
		Nov., 1933	.22	.37	.19	2.35	.04	.50	14.9	27.4	5.30	Grass, green.
		Feb., 1934	.09	.34	.30	1.59	.02	.50	9.1	33.3	3.75	Grass, mainly green.
		May, 1934	.039	.39	.16	.55	.01	.16	5.3	36.1	1.99	Grass, leafy and bush; mostly grass.
		Nov., 1934	.16	.31	.20	1.54	.04	.55	9.6	35.1	4.16	Grass, green, long.
Houtbos, P.O. Os-hoek	Ermelo.....	Feb., 1935	.094	.23	.11	.97	.03	.24	6.0	34.2	2.19	Grass, green.
		May, 1935	.064	.27	.16	.47 trace		.09	3.7	32.8	1.81	Grass, leafy.
		Aug., 1935	.055	.29	.12	.24 trace		.11	3.3	35.3	1.64	Grass, brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Steynsplaas.....	Belfast.....	Dec., 1933	.20	.25	.16	2.26	.03	.52	10.2	36.2	5.02	Grass, mainly green.	
		Mar., 1934	.15	.32	.15	1.42	.02	.35	7.7	34.0	3.15	Grass, mainly green.	
		June, 1934	.05	.26	.12	.35	.01	.05	.62	3.6	36.4	1.62	Grass, mainly brown, leafy.
		Dec., 1934	.15	.27	.15	1.93	.04	.39	.04	10.8	34.9	4.24	Grass, mainly green.
		Mar., 1935	.10	.28	.14	1.01	.08	.24	.08	6.4	34.9	2.54	Grass, mainly green, leafy.
		June, 1935	.088	.39	.15	.46	.02	.16	.33	3.3	36.6	2.09	Grass, mainly brown leafy.
		Sept., 1935	.034	.33	.11	.15	.06	.04	.04	3.0	37.0	1.71	Grass, brown, leafy.
		Jan., 1934	.11	.34	.23	1.65	.05	.50	.05	9.1	33.3	4.18	Grass, green and bush; mostly grass.
		April, 1934	.081	.41	.29	1.40	trace	.32	.32	4.1	34.3	3.35	Grass, mainly green, short and bush; mostly grass.
Paardeplaats.....	Carolina.....	July, 1934	.048	.27	.10	.31	.01	.03	3.6	35.4	1.43	Grass, mainly brown, leafy.	
		Jan., 1935	.094	.32	.24	1.28	.03	.45	7.8	34.8	3.65	Grass, green, short.	
		April, 1935	.074	.23	.13	.68	.02	.15	.39	3.9	34.1	2.16	Grass, mainly green, leafy.
		July, 1935	.052	.28	.10	.19	.01	.07	.34	3.4	38.4	1.56	Grass, brown, leafy and bush; mostly grass.
		Oct., 1935	.033	.20	.03	.18	trace	.02	.02	4.0	30.0	1.48	Grass, brown, leafy.
		Nov., 1933	.19	.19	.13	1.75	.07	.40	.07	12.2	32.2	3.65	Green, green, leafy.
Buffelspruit, p/b Hillside Store	Carolina.....	Feb., 1934	.10	.25	.14	1.27	.05	.23	7.5	31.2	2.78	Grass, mainly green, short.	
		May, 1934	.058	.24	.14	.62	.01	.13	5.8	30.2	2.06	Grass, mainly brown, short.	
		Aug., 1934	.040	.20	.09	.12	trace	.03	.37	3.7	31.8	1.14	Grass, brown, short.
		Nov., 1934	.17	.20	.14	1.68	trace	.23	.11	11.5	32.0	3.17	Grass, green, short.
		Feb., 1935	.12	.22	.08	1.12	trace	.18	.18	7.0	31.0	2.30	Grass, green, short.
		Dec., 1933	.13	.40	.16	2.10	.05	.46	.05	10.5	32.0	4.07	Grass, green.
		Mar., 1934	.12	.39	.14	1.17	.02	.29	.02	8.0	27.8	3.01	Grass, mainly green, short.
		June, 1934	.032	.31	.08	.32	trace	.04	.33	3.3	33.4	1.50	Grass, mainly brown, leafy.
		Sept., 1934	.19	.37	.16	1.98	.07	.38	.11	11.7	28.2	3.67	Grass, green, short.
Kranspan.....	Carolina.....	Dec., 1934	.11	.38	.12	1.36	trace	.24	8.2	33.3	2.96	Grass, green, leafy.	
		Mar., 1935	.094	.34	.10	.76	trace	.17	5.6	36.7	2.18	Grass, green, leafy.	
		Jan., 1934	.16	.31	.17	1.28	.01	.19	.01	8.3	35.4	3.19	Grass, green, leafy.
		April, 1934	.087	.41	.19	.63	.02	.14	.58	29.3	29.3	2.59	Grass, mainly green, short.
		July, 1934	.061	.28	.12	.16	trace	.03	.33	3.3	31.4	1.28	Grass, brown, leafy.
		Oct., 1934	.12	.30	.14	1.27	.03	.22	.03	8.0	29.2	2.86	Grass, green, short.
		Jan., 1935	.11	.20	.15	1.45	.03	.32	.77	7.7	36.2	2.66	Grass, green, short.
		April, 1935	.088	.30	.14	.53	trace	.09	.09	5.0	30.3	2.14	Grass, mainly green, short.
		Nov., 1933	.18	.31	.16	1.56	.04	.35	.04	11.5	35.4	3.40	Grass, green, leafy.
Doomhoek No. 241, P.O. Water-val Boven	Carolina.....	Feb., 1934	.15	.23	.16	1.13	.20	.14	5.2	36.4	2.45	Grass, mainly green.	
		May, 1934	.041	.24	.12	.37	.01	.06	2.6	37.5	1.33	Grass, mainly brown, long.	
		Aug., 1934	.062	.28	.14	.28	.01	.03	.28	37.8	1.46	Grass, mainly brown.	
		Nov., 1934	.084	.22	.09	.55	trace	.13	.40	4.0	38.0	1.56	Grass, mainly green.
		Sept., 1935	.069	.24	.04	.26	.02	.02	.25	2.5	41.3	1.19	Grass, brown.

## AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Van Wyksvlei No. 96	Carolina.....	Dec., 1933	.10	.24	.15	1.30	.04	.27	8.2	35.3	2.57	Grass.
		Mar., 1934	.11	.25	.13	1.09	.02	.29	6.0	35.0	2.38	Grass, mainly green.
		June, 1934	.029	.21	.08	.17	.01	.03	.49	35.9	1.24	Grass, brown, leafy.
		Sept., 1934	.054	.25	.08	.24	.02	.03	.57	35.3	1.26	Grass, mainly brown.
		Dec., 1934	.10	.25	.15	1.27	.07	.34	.81	31.5	2.53	Grass, green.
		Mar., 1935	.089	.23	.10	.85	.02	.15	5.5	35.3	1.90	Grass, mainly green, leafy.
		Aug., 1935	.036	.27	.13	.28	.04	.07	2.9	37.0	1.51	Grass, brown, leafy.
		Jan., 1934	.14	.23	.19	1.74	.03	.31	7.9	39.7	3.02	Grass.
Weltevrede No. 254, Via Hendrina	Carolina.....	April, 1934	.083	.31	.20	1.13	.03	.25	6.5	35.2	2.88	Grass.
		July, 1934	.030	.20	.10	.30	.01	.03	3.2	37.5	1.39	Grass, mainly brown, leafy.
		Oct., 1934	.077	.19	.09	.57	trace	.13	5.2	34.7	1.39	Grass, green, long.
		Jan., 1935	.14	.22	.21	2.36	.05	.43	9.5	35.9	4.32	Grass, green, leafy.
		April, 1935	.032	.28	.16	.73	.02	.15	4.0	31.3	1.97	Grass, long.
		July, 1935	.064	.27	.14	.38	.02	.10	—	35.6	1.60	Grass, brown, leafy.
		Oct., 1935	.066	.26	.10	.21	.02	.02	3.9	38.2	1.54	Grass, brown, leafy.
		Nov., 1933	.11	.31	.14	1.66	.03	.39	9.9	31.0	3.41	Grass, green, short.
Heuveltop.....	Nelspruit.....	Feb., 1934	.095	.25	.17	1.30	.03	.42	6.8	32.8	2.81	Grass, mainly green, short.
		May, 1934	.085	.38	.18	.88	.02	.22	5.0	33.7	2.82	Grass, mainly brown, short.
		Aug., 1934	.086	.26	.12	.60	.03	.17	3.9	36.0	1.92	Grass, mainly brown.
		Dec., 1933	.13	.32	.20	1.76	.04	.50	—	31.7	3.98	Grass, mainly green, short.
The Rest.....	Nelspruit.....	Mar., 1934	.096	.25	.16	1.19	.04	.31	6.7	33.9	2.97	Grass, mainly green, short.
		June, 1934	.051	.25	.12	.55	.02	.21	3.7	37.1	1.93	Grass, mainly brown, short.
		Oct., 1934	.055	.21	.13	.36	.02	.14	3.5	37.5	1.69	Grass, short.
		June, 1935	.071	.23	.09	.66	trace	.09	3.0	43.9	1.74	Grass, mainly brown.
		Oct., 1935	.084	.26	.08	1.03	.05	.27	5.8	43.8	2.39	Grass, mainly green.
		Jan., 1934	.11	.33	.18	1.31	.10	.38	6.1	32.8	3.03	Grass, mainly green, short.
Cromdale No. 82.	Nelspruit.....	April, 1934	.073	.31	.14	.89	.02	.25	4.6	35.8	2.38	Grass, short.
		July, 1934	.057	.30	.11	.29	trace	.07	4.0	37.0	1.58	Grass, mainly brown.
		Sept., 1934	.058	.28	.09	.27	.02	.21	4.4	36.5	1.50	Grass, mainly brown, short.
		June, 1935	.09	.28	.16	1.39	trace	.44	4.8	36.7	3.67	Grass.
		Sept., 1935	.097	.33	.16	.69	.13	.26	5.0	37.4	2.20	Grass, mainly brown.
		Feb., 1934	.12	.27	.15	1.86	.05	.41	7.2	39.0	4.05	Grass and bush; mostly grass.
White River.....	Nelspruit.....	May, 1934	.048	.22	.13	.88	.02	.23	3.7	40.3	2.03	Grass, mainly brown.
		Aug., 1934	.032	.26	.16	.26	.01	.04	3.2	39.2	1.44	Grass, mainly brown.
		Nov., 1934	.08	.23	.16	.98	.04	.23	6.0	35.7	2.47	Grass, mainly green, leafy.
		Feb., 1935	.10	.25	.20	1.59	.04	.31	5.7	37.6	3.28	Grass, mainly green, leafy.
		May, 1935	.04	.24	.13	.30	.01	.07	2.8	35.6	1.55	Grass, brown, leafy.
		July, 1935	.059	.25	.07	.27	.02	.10	2.6	40.6	1.32	Grass, mainly brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Solu-ble Ash.	Description of Sample.	
Kockmoensrust, P.O. White River	Nelspruit. . . . .	Dec., 1933	.18	.36	.17	2.29	.04	.46	10.8	33.4	5.26	Grass, mainly green.	
		Mar., 1934	.10	.39	.18	1.23	.03	.22	7.1	37.2	3.26	Grass and bush; mostly grass.	
		June, 1934	.069	.25	.10	.49	trace	.12	.12	3.1	37.1	1.80	Grass, mainly brown.
		Sept., 1934	.068	.29	.16	.68	trace	.12	.12	4.8	38.2	2.10	Grass, mainly brown.
		Dec., 1934	.13	.36	.17	2.15	.05	.66	.81	34.4	5.30	Grass, mainly green, leafy.	
		Mar., 1935	.095	.43	.14	.88	trace	.21	.45	4.5	35.8	2.95	Grass, mainly green, leafy.
		June, 1935	.078	.23	.12	.70	.03	.26	3.5	40.9	2.14	Grass.	
		Sept., 1935	.652	.21	.13	.52	.04	.22	3.5	38.6	1.85	Grass, brown, short.	
		Jan., 1934	.16	.38	.17	1.74	.08	.48	7.3	37.8	4.33	Grass, mainly green and bush; mostly grass.	
		April, 1934	.065	.32	.16	.71	.03	.20	4.7	39.8	2.05	Grass and bush; mostly grass.	
Mara, P.O. Krokodilpoort	Nelspruit. . . . .	July, 1934	.049	.54	.14	.61	trace	.15	3.6	38.6	2.52	Grass, mainly brown and bush; mostly grass.	
		Oct., 1934	.055	.38	.13	.51	.02	.07	4.2	43.7	1.86	Grass, mainly brown and bush.	
		Jan., 1935	.11	.21	.13	1.55	.04	.35	6.2	37.5	3.06	Grass, mainly green.	
		April, 1935	.077	.41	.18	.57	.05	.22	5.1	33.4	2.51	Grass, leafy.	
		Aug., 1935	.057	.30	.14	.53	trace	.13	2.6	42.7	1.61	Grass, brown.	
		Jan., 1935	.16	.24	.11	.91	.04	.21	4.2	43.2	2.21	Grass, mainly green.	
		April, 1935	.081	.28	.11	.74	.02	.13	3.3	37.4	1.92	Grass.	
		July, 1935	.097	.47	.14	.80	.11	.27	4.8	38.6	2.62	Grass, leafy.	
		Oct., 1935	.069	.32	.11	.35	.03	.06	3.5	39.9	1.63	Grass, brown, leafy.	
		Sept., 1934	.094	.27	.11	.71	.06	.20	6.1	35.3	2.59	Grass.	
Peebles, P.O. White River	Nelspruit. . . . .	Dec., 1934	.11	.22	.17	1.75	.03	.38	8.7	33.7	3.78	Grass, mainly green.	
		Mar., 1934	.074	.24	.24	.73	.03	.22	5.6	39.6	2.25	Grass, mainly green.	
		June, 1934	.047	.26	.07	.—	.01	.05	4.2	35.8	1.62	Grass, mainly brown, leafy.	
		Sept., 1934	.050	.41	.12	.47	.02	.15	5.3	34.9	1.53	Grass, mainly brown, leafy.	
		Dec., 1934	.13	.24	.15	1.57	.04	.32	7.8	36.1	3.11	Grass, mainly green, leafy.	
		Mar., 1935	.—	.25	.15	.93	trace	.—	5.9	35.4	4.71	Grass, green, leafy.	
		July, 1935	.065	.27	.15	.88	.03	.10	3.9	36.0	1.50	Grass, leafy.	
		Oct., 1935	.070	.26	.09	.58	.02	.07	4.7	36.1	1.82	Grass, mainly brown, leafy.	
		Jan., 1934	.12	.29	.13	1.69	.22	.43	6.8	41.9	3.65	Grass, mainly green.	
		April, 1934	.10	.36	.51	1.08	trace	.25	1.8	36.8	2.63	Grass, mainly green, leafy.	
De Rust, P.O. White River	Nelspruit. . . . .	July, 1934	.05	.11	.45	.02	.07	3.8	34.9	1.89	Grass, mainly brown, leafy.		
		Oct., 1934	.058	.32	.10	.32	.02	.12	4.2	33.7	1.50	Grass, leafy.	
		Feb., 1935	.11	.28	.13	1.14	.05	.27	5.9	34.1	2.71	Grass, green, leafy.	
		May, 1935	.12	.38	.25	1.11	.02	.26	7.7	33.0	3.01	Grass, mainly green, leafy.	
		Aug., 1935	.078	.36	.15	.44	.02	.12	3.4	38.3	1.70	Grass, brown, leafy.	

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Koekmoersrust, P.O. White River	Nelspruit.....	Dec., 1933	.18	.36	.17	2.29	.04	.46	10.8	33.4	5.26	Grass, mainly green.	
		Mar., 1934	.10	.39	.18	1.23	.03	.22	7.1	37.2	3.26	Grass and bush; mostly grass.	
		June, 1934	.069	.25	.10	.49	trace	1.80	.12	3.1	37.1	1.80	Grass, mainly brown.
		Sept., 1934	.068	.29	.16	.68	trace	2.10	.12	4.8	38.2	2.10	Grass, mainly brown.
		Dec., 1934	.13	.36	.17	2.15	.05	.06	.21	8.1	34.4	3.30	Grass, mainly green, leafy.
		Mar., 1935	.095	.43	.14	.88	trace	.21	.26	4.5	35.8	2.95	Grass, mainly green, leafy.
		June, 1935	.078	.23	.12	.70	.03	.26	.35	40.9	2.14	Grass.	
		Sept., 1935	.052	.21	.13	.52	.04	.22	.35	38.6	1.85	Grass, brown, short.	
		Jan., 1934	.16	.38	.17	1.74	.08	.48	7.3	37.8	4.33	Grass, mainly green and bush; mostly grass.	
		April, 1934	.065	.32	.16	.71	.03	.20	4.7	39.8	2.05	Grass and bush; mostly grass.	
Mara, P.O. Krokodilpoort	Nelspruit.....	July, 1934	.049	.54	.14	.61	trace	.15	3.6	38.6	2.52	Grass, mainly brown and bush; mostly grass.	
		Oct., 1934	.055	.38	.13	.51	.02	.07	4.2	43.7	1.86	Grass, mainly brown and bush.	
		Jan., 1935	.11	.21	.13	1.55	.04	.35	.26	6.2	37.5	3.06	Grass, mainly green.
		April, 1935	.077	.41	.18	.57	.05	.22	5.1	33.4	2.51	Grass, leafy.	
		Aug., 1935	.057	.30	.14	.53	trace	.13	2.6	42.7	1.61	Grass, brown.	
		Jan., 1935	.16	.24	.11	.91	.04	.21	4.2	43.2	2.21	Grass, mainly green.	
		April, 1935	.081	.28	.11	.74	.02	.13	3.3	37.4	1.92	Grass.	
		July, 1935	.097	.47	.14	.80	.11	.27	4.8	38.6	2.62	Grass, leafy.	
		Oct., 1935	.069	.32	.11	.35	.03	.06	3.5	39.9	1.63	Grass, brown, leafy.	
		Sept., 1934	.094	.27	.11	.71	.06	.20	6.1	35.3	2.59	Grass.	
Peebles, P.O. White River	Nelspruit.....	Dec., 1934	.11	.26	.15	2.18	.04	.45	8.2	37.3	3.83	Grass, mainly green, leafy.	
		Mar., 1935	.089	.40	.15	1.04	.03	.17	5.9	38.1	2.61	Grass, mainly green.	
		June, 1935	.10	.44	.14	.44	trace	.15	3.4	35.9	1.96	Grass, mainly green, leafy.	
		Sept., 1935	.064	.38	.17	.48	.05	.20	4.5	36.4	1.91	Grass, brown, leafy.	
		Dec., 1933	.11	.22	.17	1.75	.03	.38	8.7	33.7	3.78	Grass, mainly green.	
		Mar., 1934	.074	.24	.24	.73	.03	.22	5.6	39.6	2.25	Grass, mainly green.	
		June, 1934	.047	.26	.07	—	.01	.06	4.2	35.8	1.62	Grass, mainly brown, leafy.	
		Sept., 1934	.060	.41	.12	.47	.02	.15	5.3	34.9	1.53	Grass, mainly brown, leafy.	
		Dec., 1934	.13	.24	.15	1.57	.04	.32	7.8	36.1	3.11	Grass, mainly green, leafy.	
		Mar., 1935	—	.25	.15	.90	trace	—	5.9	35.4	4.71	Grass, green, leafy.	
De Rust, P.O. White River	Nelspruit.....	July, 1935	.065	.27	.15	.38	.03	.10	3.9	36.0	1.50	Grass, leafy.	
		Oct., 1935	.070	.26	.09	.38	.02	.07	4.7	36.1	1.82	Grass, mainly brown, leafy.	
		Jan., 1934	.12	.29	.13	1.69	.22	.43	6.8	41.9	3.65	Grass, mainly green.	
		April, 1934	.10	.36	.51	1.08	trace	.25	6.8	36.8	2.63	Grass, mainly green, leafy.	
		July, 1934	.05	.45	.11	.45	.02	.07	3.8	34.9	1.89	Grass, mainly brown, leafy.	
		Oct., 1934	.058	.32	.10	.32	.02	.12	4.2	33.7	1.50	Grass, leafy.	
		Feb., 1935	.11	.28	.13	1.14	.05	.26	5.9	34.1	2.71	Grass, green, leafy.	
		May, 1935	.12	.38	.25	1.11	.02	.27	7.7	33.0	3.01	Grass, mainly green, leafy.	
		Aug., 1935	.078	.36	.15	.44	.02	.12	3.4	38.3	1.70	Grass, brown, leafy.	

## AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Hampton, P.O. White River	Nelspruit.....	Feb., 1934	.13	.22	.18	1.25	.02	.29	5.9	36.5	2.70	Grass, mainly green.	
		May, 1934	.043	.28	.24	.50	.02	.15	3.4	36.2	1.86	Grass, leafy.	
		Aug., 1934	.049	.28	.11	.23	trace	.03	.03	2.9	36.6	1.39	Grass, mainly brown, leafy.
		Nov., 1934	.20	.27	.19	2.14	trace	.46	.46	10.7	32.8	4.15	Grass, green, leafy.
		Jan., 1935	.11	.25	.19	1.46	trace	.33	.33	6.5	34.7	2.86	Grass, green.
		April, 1935	.077	.36	.14	.69	.03	.15	.15	4.3	33.5	2.29	Grass, mainly green, leafy.
		June, 1935	.056	.28	.13	.34	trace	.07	.07	3.0	39.7	1.59	Grass, mainly brown, leafy.
		Sept., 1935	.047	.49	.17	.28	.07	.16	.16	3.6	37.8	2.13	Grass, brown, leafy.
		Jan., 1934	.19	.23	.17	1.71	.04	.39	.04	.39	11.9	37.9	3.95
June, 1934	.085	.39	.20	.66	.01	.11	.11	4.3	36.4	2.58	Grass, mainly brown, leafy.		
Sept., 1934	.068	.58	.15	.51	.02	.07	.07	5.3	38.3	2.08	Grass, mainly brown.		
Feb., 1935	.13	.24	.14	1.53	.04	.23	.04	.23	5.4	34.8	2.99	Grass, mainly green.	
May, 1935	.11	.32	.19	1.65	trace	.28	trace	.28	4.7	36.9	2.93	Grass, mainly green.	
Aug., 1935	.084	.34	.19	.65	trace	.15	trace	.15	3.6	44.5	2.22	Grass, brown.	
Rooiwal No. 132. P.O. Brondal	Nelspruit.....	May, 1934	.05	.23	.11	1.03	.03	.22	3.8	39.6	2.40	Grass.	
		Aug., 1934	.06	.27	.14	.34	trace	.04	3.4	38.1	1.44	Grass, mainly brown.	
		Nov., 1934	.10	.19	.13	1.49	trace	.31	7.0	37.3	2.85	Grass, green.	
		Jan., 1935	.088	.24	.16	1.61	.06	.36	.06	5.4	37.8	3.28	Grass, mainly green.
		April, 1935	.12	.32	.18	1.25	.04	.29	.04	5.4	36.9	3.11	Grass, mainly green.
		July, 1935	.053	.40	.18	.64	.02	.11	.11	4.5	35.3	2.23	Grass, mainly brown.
Oct., 1935	.10	.41	.15	1.12	.21	.28	.21	6.7	35.6	3.19	Grass, mainly brown, leafy.		
Friedenheim.....	Nelspruit.....	July, 1934	.051	.32	.10	.54	.01	.09	3.6	37.7	1.66	Grass, mainly brown.	
		Oct., 1934	.054	.24	.09	.31	.03	.08	3.6	40.7	1.50	Grass, brown.	
		Mar., 1935	.15	.34	.19	1.38	.07	.45	.07	5.1	38.6	3.46	Grass, mainly green, leafy.
Grootgchuk No. 116 P.O. Godwan River	Nelspruit.....	Dec., 1933	.15	.34	.16	1.76	.03	.45	7.4	34.1	3.54	Grass, mainly green.	
		April, 1934	.15	.27	.14	1.14	.02	.39	4.8	35.7	2.77	Grass.	
		Aug., 1934	.058	.25	.16	.34	trace	.07	3.3	35.6	1.58	Grass, brown, short.	
		Sept., 1934	.13	.22	.11	.85	.02	—	6.8	34.7	2.31	Grass, short.	
		April, 1935	.089	.28	.17	.58	.04	.18	.04	4.0	37.2	2.20	Grass, mainly brown, short.
		July, 1935	.12	.34	.11	.64	.01	.11	.01	3.4	39.0	1.94	Grass, brown, short.
Oct., 1935	—	.39	.20	.63	.21	—	—	5.1	34.4	3.00	Grass, mainly brown, short.		
Lindenau, P.O. Elandschoek	Nelspruit.....	Mar., 1934	.096	.27	.14	.90	.02	.20	5.7	34.4	2.13	Grass, mainly green, short.	
		June, 1934	.052	.27	.22	.85	.02	.28	3.7	33.0	2.68	Grass, mainly brown, short.	
		Dec., 1934	.092	.34	.26	.98	.09	.43	.09	6.1	34.0	3.95	Grass, short.
		June, 1935	.075	.27	.14	.43	trace	.13	trace	3.5	38.5	2.22	Grass, mainly brown, short.
		Sept., 1935	.073	.42	.17	.34	.06	.14	.06	4.3	38.9	2.88	Grass, brown, short.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 7 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Rietspruit No. 37, P.O. Airlie	Carolina.....	July, 1934	.040	.24	.12	.32	trace	.05	2.8	40.3	1.54	Grass, mainly brown, short.
		Nov., 1934	.098	.28	.20	.98	.04	.37	7.9	32.3	3.01	Grass, mainly green, short.
		Feb., 1935	.14	.26	.19	.74	.03	.33	4.6	31.8	3.12	Grass, short.
		May, 1935	.10	.27	.16	.87	.05	.25	4.6	33.0	2.87	Grass, short.
		Aug., 1935	.11	.40	.21	.55	.32	.32	4.5	35.3	3.17	Grass, brown, short.
Middleham, P.O. Kaapsechoop	Nelspruit.....	Feb., 1934	.32	.72	.44	2.71	.05	.51	10.4	28.6	8.80	Bush.
		April, 1934	.24	.59	.36	2.82	.04	.63	11.6	31.7	6.72	Grass, mainly green and bush; mostly grass.
		July, 1934	—	.26	.06	.34	.01	—	2.5	38.0	1.31	Grass, brown.
		June, 1935	.081	.29	.16	.82	.03	.19	5.3	46.0	2.22	Grass, long.
		Sept., 1935	.12	.46	.27	.84	.16	.46	6.1	32.6	3.25	Grass, mainly green, short.
Bellvue, P.O. Entre Nous	Baberton.....	Jan., 1934	.15	.45	.28	1.94	.03	.53	11.5	40.5	5.27	Grass and bush.
		May, 1934	.053	.17	.15	.58	.01	.10	2.1	42.1	1.31	Grass, mainly brown, long.
		Aug., 1934	.098	.21	.11	.23	.02	.02	2.1	41.2	1.27	Grass, brown, long.
		Jan., 1935	.087	.23	.12	1.11	.03	.26	5.2	39.4	2.27	Grass, green, long.
		Mar., 1935	.10	.23	.12	.60	trace	.10	3.2	41.2	1.71	Grass, long.
		May, 1935	.086	.36	.23	.85	.11	.55	4.6	32.4	2.78	Grass, mainly green, leafy.
		Sept., 1935	.065	.24	.12	.42	.64	.64	3.5	37.2	1.78	Grass, brown, short.

## AREA 8.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Pro-tein.	Crude Fibre.	Solu-ble Ash.	Description of Sample.
Goedehoop.....	Christiana.....	Nov., 1933	.042	.49	.10	.20	.29	.03	3.4	34.6	2.15	Grass, brown.
		Feb., 1934	.16	.29	.08	.38	.18	.77	7.7	34.3	2.82	Grass, mainly green.
		May, 1934	.084	.32	.11	.66	.03	.01	2.9	38.9	1.53	Grass, mainly brown.
		Aug., 1934	.070	.26	.07	.41	trace	.04	3.9	37.9	1.62	Grass, brown.
		Nov., 1934	.10	.26	.067	.81	trace	.15	6.0	39.1	2.04	Grass, green.
		Feb., 1935	.12	.41	.17	1.69	.04	.49	7.8	36.0	3.77	Grass, mainly green.
		May, 1935	.13	.57	.17	1.05	trace	.16	7.4	32.7	2.82	Grass, green, short.
		Aug., 1935	.076	.63	.15	.32	.02	.09	4.8	36.8	2.52	Grass, brown, leafy.
		Dec., 1933	.14	.27	.17	2.09	.03	.55	9.8	30.3	4.67	Grass, short.
		Mar., 1934	.13	.40	.16	1.99	trace	.58	11.8	30.4	4.03	Grass, mainly green.
		June, 1934	.078	.29	.11	1.00	.03	.27	5.9	35.5	2.93	Grass, mainly brown.
		Sept., 1934	.062	.22	.12	.55	.03	.15	4.7	35.3	2.10	Grass, brown.
		Dec., 1934	.094	.56	.11	1.31	.23	.28	7.0	33.9	3.38	Grass, mainly green.
		Mar., 1935	.088	.51	.10	1.10	.06	.24	6.3	31.7	3.27	Grass, mainly green, short.
		June, 1935	.054	.62	.09	.29	trace	.05	3.6	34.3	2.13	Grass, brown, short.
Sept., 1935	.058	.54	.09	.46	.02	.13	5.1	34.3	2.49	Grass, brown, leafy.		
Richmond, P.O. Britten	Christiana.....	Jan., 1934	.22	.33	.12	2.10	.18	.44	10.1	33.3	4.49	Grass, mainly green.
		April, 1934	.15	.44	.12	1.38	.04	.22	8.3	32.2	3.02	Grass, mainly green.
		July, 1934	.049	.31	.06	.26	.01	.02	6.6	36.5	1.44	Grass, brown.
		Oct., 1934	.064	.38	.08	.28	trace	.03	3.6	35.0	1.51	Grass, brown.
		Jan., 1935	.079	.26	.09	1.12	.02	.26	5.6	32.1	2.22	Grass, mainly green, long.
		April, 1935	.10	.39	.11	1.05	.02	.20	6.4	32.5	2.72	Grass, mainly green.
		July, 1935	.081	.50	.11	.37	.03	.09	4.4	35.9	2.16	Grass, brown, leafy.
		Oct., 1935	.094	.44	.14	1.00	.09	.21	8.1	29.0	2.99	Grass, leafy.
		Feb., 1934	.10	.32	.23	1.40	.04	.28	6.9	33.2	3.16	Grass, mainly green.
		May, 1934	.064	.46	.15	.68	trace	.16	3.3	33.8	2.13	Grass, mainly brown, leafy.
Appeldraai.....	Ventersdorp.....	Aug., 1934	.051	.35	.12	1.16	trace	.01	2.6	35.7	1.52	Grass, brown, leafy.
		Nov., 1934	.096	.29	.12	.76	trace	.37	6.1	35.7	2.24	Grass, mainly green, leafy.
		Feb., 1935	.083	.54	.15	1.80	trace	.28	5.7	34.4	2.80	Grass, green, leafy.
		May, 1935	.076	.45	.11	.44	trace	.08	4.0	32.2	1.86	Grass, mainly green, short.
		Aug., 1935	.065	.32	.12	.36	trace	.08	2.4	34.1	1.84	Grass, brown, leafy.
		Dec., 1933	.16	.25	.12	1.60	trace	.32	—	37.6	3.54	Grass, mainly green.
		Mar., 1934	.13	.29	.17	1.44	.02	.27	4.9	37.3	2.89	Grass.
		June, 1934	.061	.35	.15	.32	trace	.05	3.2	34.6	1.70	Grass, mainly brown, leafy.
Vlaakfontein.....	Ventersdorp.....	Sept., 1934	.037	.29	.14	.09	.02	.04	3.3	34.3	1.27	Grass, brown, leafy.
		Dec., 1934	.085	.28	.18	1.04	.08	.18	6.1	32.6	2.57	Grass, leafy.
		April, 1935	.085	.32	.12	.73	.02	.11	5.6	36.0	2.58	Grass, green, leafy.
		June, 1935	.060	.32	.08	.25	trace	.05	2.9	38.7	1.51	Grass, brown, leafy.
		Sept., 1935	.040	.24	.16	.24	.01	.08	2.9	35.2	1.97	Grass, brown, leafy.



FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 8 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Doornpan.....	Ventersdorp....	Jan., 1934	.12	.25	.12	1.56	trace	.23	10.7	39.0	3.70	Grass, mainly green.
		April, 1934	.10	.39	.16	.66	.03	.15	4.9	35.0	2.02	Grass.
		July, 1934	.061	.33	.12	.26	trace	.07	2.7	34.0	1.65	Grass, brown, leafy.
		Oct., 1934	.069	.32	.16	.36	trace	.07	3.9	36.1	1.81	Grass, brown, leafy.
		Jan., 1935	.11	.37	.12	1.31	trace	.47	7.1	33.2	3.04	Grass, mainly green, leafy.
		Mar., 1935	.075	.30	.11	.78	trace	.13	5.5	33.0	2.15	Grass, leafy.
		July, 1935	.081	.47	.17	.38	.03	.10	3.1	35.6	3.03	Grass, brown, leafy.
		Oct., 1935	.067	.30	.07	.27	trace	.04	3.9	35.4	1.69	Grass, brown, leafy.
		Nov., 1933	.075	.22	.12	.44	trace	.13	3.7	33.2	2.21	Grass, mainly brown.
		Feb., 1934	.13	.27	.20	1.89	.03	.43	10.0	35.3	3.98	Grass, mainly green.
Doornhoek No. 24	Klerksdorp....	May, 1934	.068	.34	.19	1.35	.04	.34	5.1	33.4	2.95	Grass, leafy.
		Aug., 1934	.048	.29	.13	.32	trace	.04	3.6	2.07	Grass, brown, leafy.	
		Nov., 1934	.12	.35	.18	1.90	trace	.34	8.7	35.7	3.57	Grass, mainly green, leafy.
		Feb., 1935	.11	.38	.27	2.20	trace	.63	8.8	35.3	4.51	Grass, green, leafy.
		May, 1935	.072	.34	.13	.52	trace	.10	4.7	30.4	1.94	Grass, leafy.
		Aug., 1935	.063	.36	.15	.38	.05	.09	2.8	35.2	2.05	Grass, brown, leafy.
		Dec., 1933	.18	.37	.24	2.27	.03	.54	14.3	31.1	4.75	Grass, mainly green, short.
		Mar., 1934	.14	.36	.16	1.81	.03	.38	6.5	37.7	3.78	Grass, mainly green.
		June, 1934	.10	.50	.18	.87	.01	.21	4.1	36.1	2.87	Grass, mainly brown, leafy.
		Sept., 1934	.07	.37	.09	.32	trace	.05	4.2	36.9	1.77	Grass, brown, leafy.
Lapfontein, P.O. Brakspruit	Klerksdorp....	Jan., 1935	.096	.51	.25	2.29	trace	.49	8.3	34.9	4.78	Grass, green, short.
		Mar., 1935	.17	.45	.13	1.52	trace	.30	10.7	33.3	3.35	Grass, green, leafy.
		June, 1935	.08	.49	.08	.64	trace	.07	4.5	32.3	2.21	Grass, green, leafy.
		Sept., 1935	.061	.34	.10	.38	.04	.13	4.1	33.5	1.88	Grass, brown, leafy.
		Feb., 1934	.14	.26	.15	2.19	.04	.56	8.9	36.4	4.82	Grass, mainly green, leafy.
		April, 1934	.13	.31	.13	1.49	.14	.42	7.6	31.3	2.90	Grass, mainly green, leafy.
		July, 1934	.054	.48	.14	.39	trace	.15	3.8	35.4	2.00	Grass, brown, leafy.
		Oct., 1934	.13	.36	.10	.63	.02	.09	4.6	33.7	2.19	Grass, mainly green, leafy.
		Jan., 1935	.11	.33	.12	1.14	.03	.56	5.3	32.7	2.58	Grass, mainly green, leafy.
		April, 1935	.14	.37	.14	1.12	.04	.17	6.9	33.2	2.88	Grass, green, leafy.
Swaartkoppies No. 59	Klerksdorp....	July, 1935	.10	.51	.18	.79	.01	.13	4.0	37.5	2.80	Grass, brown, leafy.
		Oct., 1935	.051	.29	.05	.09	trace	.01	2.9	42.7	1.23	Grass, brown.
		Nov., 1933	.049	.15	.14	.41	.16	.33	5.2	41.0	1.79	Grass.
		Feb., 1934	.13	.19	.09	1.36	.10	.30	7.2	37.9	2.87	Grass, mainly green.
		May, 1934	.12	.43	.17	1.12	.04	.35	7.9	33.0	3.28	Grass.
		Oct., 1934	.066	.36	.13	.39	trace	.07	4.5	33.3	—	Grass, leafy.
		Jan., 1935	.11	.29	.13	1.21	.03	.32	6.9	35.3	2.69	Grass, mainly green, leafy.
		April, 1935	.078	.26	.091	.70	trace	.19	5.3	35.4	3.44	Grass.
		July, 1935	.067	.36	.12	.31	.02	.07	3.3	36.1	1.91	Grass, brown, leafy.
		Oct., 1935	.055	.34	.11	.29	trace	.02	3.8	32.5	1.93	Grass, brown, leafy.
Driefontein No. 31	Wolmaransstad.	Nov., 1933	.049	.15	.14	.41	.16	.33	5.2	41.0	1.79	Grass.
		Feb., 1934	.13	.19	.09	1.36	.10	.30	7.2	37.9	2.87	Grass, mainly green.
		May, 1934	.12	.43	.17	1.12	.04	.35	7.9	33.0	3.28	Grass.
		Oct., 1934	.066	.36	.13	.39	trace	.07	4.5	33.3	—	Grass, leafy.
		Jan., 1935	.11	.29	.13	1.21	.03	.32	6.9	35.3	2.69	Grass, mainly green, leafy.
		April, 1935	.078	.26	.091	.70	trace	.19	5.3	35.4	3.44	Grass.
		July, 1935	.067	.36	.12	.31	.02	.07	3.3	36.1	1.91	Grass, brown, leafy.
		Oct., 1935	.055	.34	.11	.29	trace	.02	3.8	32.5	1.93	Grass, brown, leafy.

## AREA 8 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Zwartrand.....	Wolmaransstad.	Dec., 1933	.14	—	.08	1.11	.02	.21	7.1	40.4	2.38	Grass, mainly green.	
		Mar., 1934	.11	.20	.10	1.25	trace	.35	5.3	38.9	2.78	Grass.	
		June, 1934	.14	.31	.10	.65	.03	.15	.15	4.7	37.3	2.08	Grass, mainly brown and bush; mostly grass.
		Aug., 1934	.044	.37	.09	.16	trace	.01	.01	2.8	34.5	1.52	Grass, brown, leafy.
		Nov., 1934	.077	.27	.13	1.09	.15	.43	.43	5.5	39.3	2.82	Grass, mainly brown, leafy.
		Feb., 1935	.11	.43	.19	.94	trace	.19	.19	5.5	33.4	2.75	Grass, green, leafy.
		May, 1935	.10	.32	.06	.34	.02	.08	.08	4.5	32.2	1.82	Grass, mainly brown, leafy.
		Aug., 1935	.092	.32	.11	.53	.02	.17	.17	4.7	37.0	3.28	Grass, brown, leafy.
Oessonskraal, P.O. Maquassi	Wolmaransstad.	Jan., 1934	.23	.24	.13	2.41	.06	.47	9.1	32.7	4.46	Grass, mainly green.	
		April, 1934	.092	.21	.06	.45	.02	.05	5.4	34.0	1.39	Grass, leafy.	
		Oct., 1934	.06	.31	.10	.37	trace	.09	.09	4.4	33.6	1.57	Grass, leafy.
		Dec., 1934	.084	.20	.09	1.34	trace	.24	.24	5.4	37.1	2.54	Grass, mainly green, leafy.
		Mar., 1935	.074	.25	.12	.70	.02	.12	.12	5.1	35.7	1.88	Grass.
		June, 1935	.053	.28	.09	.34	trace	.03	.03	4.1	38.7	1.52	Grass, brown, leafy.
		Sept., 1935	.044	.27	.09	.22	trace	.08	.08	3.6	34.8	1.50	Grass, brown, leafy.
		Nov., 1933	.13	.27	.12	.98	.02	.22	.22	8.7	29.5	3.31	Grass.
		Oct., 1934	.063	.20	.10	.48	trace	.08	.08	5.1	35.2	1.57	Grass, brown.
Panfontein.....	Schweizer-Reneke	Jan., 1935	.054	.17	.07	.60	.02	.10	4.5	35.6	1.51	Grass, mainly green.	
		April, 1935	.050	.21	.084	.36	.02	.12	4.5	35.7	1.50	Grass, mainly green.	
		July, 1935	.057	.28	.089	.25	.02	.07	.07	3.2	34.9	1.68	Grass, mainly green.
		Dec., 1933	.071	.23	.13	1.10	.06	.22	.22	6.6	42.8	3.80	Grass.
		April, 1934	.075	.29	.10	.76	.02	.17	.17	4.7	37.5	2.00	Grass.
Makoukop.....	Schweizer-Reneke	June, 1934	.049	.26	.085	.62	trace	.13	4.4	34.1	1.94	Grass, mainly brown.	
		Aug., 1934	.036	.20	.10	.41	trace	.04	4.3	35.8	1.39	Grass, brown.	
		Nov., 1934	.054	.21	.088	.42	trace	.09	.09	5.1	37.3	1.47	Grass.
		Feb., 1935	.065	.25	.09	1.04	.02	.22	.22	6.5	33.5	2.42	Grass, mainly green.
		Mar., 1934	.13	.28	.18	1.63	.02	.36	.36	10.0	32.7	3.47	Grass, short.
Holpan.....	Schweizer-Reneke	May, 1934	.093	.31	.14	.93	.03	.23	5.5	34.8	2.82	Grass.	
		July, 1934	.030	.22	.07	.25	trace	.05	4.0	39.5	1.30	Grass, brown.	
		Sept., 1934	.046	.25	.10	.41	.02	.06	.06	4.4	33.6	1.40	Grass, brown.
		Mar., 1935	.080	.28	.09	.72	.02	.16	.16	5.1	36.1	2.10	Grass, green, short.
		Dec., 1933	.21	.29	.11	2.03	.02	.28	.28	12.1	26.0	5.94	Grass, green, short.
Vythoek.....	Potchefstroom..	Feb., 1934	.15	.26	.14	1.46	.02	.18	7.9	30.2	2.98	Grass, mainly green, short.	
		May, 1934	.063	.32	.13	.80	.02	.10	3.7	32.2	2.20	Grass, leafy.	
		Aug., 1934	.051	.38	.17	.24	.01	.04	.04	4.1	31.7	1.81	Grass, mainly brown, leafy.
		Feb., 1935	.089	.27	.16	1.84	trace	.28	.28	5.9	30.7	2.64	Grass, mainly green, short.
		May, 1935	.088	.28	.11	.86	.02	.17	.17	5.8	32.8	2.22	Grass, mainly green, leafy.
		Aug., 1935	.066	.42	.13	.32	.03	.05	.05	3.5	35.0	2.18	Grass, brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 8 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Buffelsvlei, P.O. Boskop	Potchefstroom..	Jan., 1934	.14	.28	.16	1.74	.02	.25	14.6	31.4	3.98	Grass, mainly green, short.	
		Mar., 1934	.098	.33	.16	1.09	.02	.21	5.9	36.1	2.76	Grass, mainly green.	
		June, 1934	.05	.31	.13	.44	.01	.07	.40	3.4	1.75	Grass, mainly brown, leafy.	
		Sept., 1934	.045	.40	.11	.26	.02	.04	.36	32.4	1.80	Grass, brown, leafy.	
		Dec., 1934	.14	.36	.11	1.77	.45	.67	.10	1.1	28.3	4.46	Grass, green, leafy.
		July, 1935	.056	.39	.11	.36	.01	.11	4.3	30.7	1.97	Grass, brown, leafy.	
		Sept., 1935	.040	.32	.11	.23	.02	.10	3.6	33.5	1.68	Grass, brown, short.	
Elbrinsen.....	Potchefstroom..	Feb., 1934	.10	.30	.17	1.92	.02	.39	6.7	34.8	3.88	Grass, mainly green.	
		April, 1934	.089	.43	.21	1.40	.04	.38	7.3	34.2	3.70	Grass, mainly green.	
		July, 1934	.053	.34	.13	.39	trace	.08	3.6	34.7	1.98	Grass, brown, leafy.	
		Oct., 1934	.091	.30	.12	.56	.07	.11	6.0	24.9	1.90	Grass, mainly green, leafy.	
		Jan., 1935	.13	.28	.16	1.52	trace	.27	7.3	33.5	3.31	Grass, mainly green, leafy.	
		June, 1935	.12	.29	.21	1.01	.02	.14	5.2	37.2	2.85	Grass, brown, leafy.	
Rietvlei No. 113.	Krugersdorp....	Jan., 1934	.078	.19	.10	.98	trace	.16	6.3	40.3	2.15	Grass, mainly green.	
		April, 1934	.087	.23	.10	.55	.01	.10	—	34.5	1.37	Grass.	
		Aug., 1934	.031	.19	.07	.13	trace	.01	2.5	34.7	1.01	Grass, brown, leafy.	
		Nov., 1934	.16	.19	.12	1.26	.02	.12	1.1	31.1	3.10	Grass, green, short.	
		Feb., 1935	.11	.19	.07	.66	.03	.14	5.5	34.1	2.19	Grass, green, leafy.	
		May, 1935	.048	.20	.10	.28	trace	.07	3.4	32.6	1.57	Grass, mainly brown, short.	
		Aug., 1935	.052	.29	.097	.23	trace	.09	2.9	35.2	1.61	Grass, brown, leafy.	
		Aug., 1934	.13	.27	.17	1.37	.03	.32	11.1	35.2	3.23	Grass, green.	
Daniëlsrust No. 19	Krugersdorp....	May, 1934	.029	.27	.17	.48	.02	.10	2.9	38.1	1.67	Grass, mainly brown, long.	
		July, 1934	.076	.31	.10	—	.08	4.4	4.4	34.1	1.77	Grass, brown, leafy.	
		Jan., 1935	.070	.53	.21	1.32	trace	.18	5.7	36.0	3.37	Grass, green, leafy.	
		April, 1935	.10	.29	.15	1.21	.03	.22	5.1	36.9	3.15	Grass, mainly green, leafy.	
		July, 1935	.035	.34	.16	.23	trace	.08	3.2	36.9	2.00	Grass, brown, short.	
		Oct., 1935	.062	.33	.13	.34	trace	.03	4.8	32.8	2.43	Grass, brown, short.	
		Mar., 1934	.084	.27	.28	.83	.01	.23	5.8	35.3	2.32	Grass, mainly green.	
		July, 1934	.029	.34	.15	.18	.01	.03	3.3	34.9	1.54	Grass, brown, leafy.	
		Sept., 1934	.096	.19	.12	.92	.02	.27	7.8	33.3	2.06	Grass, short.	
		Dec., 1934	.10	.25	.13	1.37	trace	.29	7.2	34.6	3.03	Grass, green, leafy.	
Steenkoppies No. 101, P.O. Magaliesberg	Krugersdorp....	Mar., 1935	.12	.18	.12	.81	trace	.14	5.9	34.8	3.17	Grass, mainly green, leafy.	
		June, 1935	.044	.25	.15	.27	trace	.09	2.5	35.9	1.71	Grass, mainly brown, short.	
		Sept., 1935	.031	.30	.11	.15	.02	.06	2.8	36.4	1.47	Grass, brown, short.	
		Oct., 1933	.050	.26	.06	.29	.02	.02	6.2	36.4	1.45	Grass, brown.	
		Jan., 1934	.19	.29	.09	1.75	.03	.25	11.8	30.0	3.80	Grass, green, short.	
		April, 1934	.12	.47	.16	.98	.03	.23	6.2	35.2	2.48	Grass, mainly green, leafy.	
L. o s k o p P. O. Meyerton	Vereniging.....	Aug., 1934	.042	.40	.10	.16	trace	.02	2.9	35.3	1.58	Grass, mainly brown, leafy.	
		Mar., 1935	.086	.36	.13	.78	trace	.06	6.0	32.3	2.35	Grass, green, short.	
		June, 1935	.073	.30	.09	.33	trace	.06	3.2	36.4	1.67	Grass, brown, leafy.	
		Sept., 1935	.041	.27	.09	.14	.01	.06	3.0	33.6	1.28	Grass, brown, short.	
		Oct., 1933	.050	.26	.06	.29	.02	.02	6.2	36.4	1.45	Grass, brown.	
		Jan., 1934	.19	.29	.09	1.75	.03	.25	11.8	30.0	3.80	Grass, green, short.	

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Slangfontein, P.O. Meyerton	Vereeniging.....	Nov., 1933	.16	.51	.12	1.32	.04	.24	9.8	36.7	3.53	Grass.	
		Feb., 1934	.13	.28	.12	1.49	trace	.29	9.2	30.4	3.20	Grass, mainly green, short.	
		May, 1934	.056	.54	.21	.75	.02	.18	.33-0	3.8	33-0	2.87	Grass, mainly brown, leafy.
		Sept., 1934	.025	.48	.08	.10	.01	.02	.16	2.9	34.6	1.50	Grass, green, leafy.
		April, 1935	.13	.34	.14	1.00	.12	.16	.08	6.7	29.3	2.76	Grass, brown, short.
		July, 1935	.063	.37	.13	.27	.02	.08	.3-4	3.4	41.4	1.81	Grass, brown, leafy.
		Oct., 1935	.045	.34	.06	.13	.02	.01	.3-3	3.3	33-0	1.56	Grass, brown, short.
Christiefontein, P.O. Meyerton	Vereeniging.....	Dec., 1933	.14	.27	.17	2.14	.02	.36	10.3	30.2	3.56	Grass, green, short.	
		Mar., 1934	.069	.30	.26	.97	.02	.27	4.1	32.4	2.49	Grass, mainly green, short.	
		June, 1934	.045	.29	.16	.32	trace	.05	.37	34.9	1.42	Grass, mainly brown, leafy.	
		Feb., 1935	.082	.28	.11	.75	.02	.09	.5-5	30.7	1.98	Grass, mainly green, short.	
		May, 1935	.069	.41	.14	.44	trace	.08	4.3	28.6	2.19	Grass, short.	
		Aug., 1935	.098	.41	.15	.31	trace	.10	3.6	35.4	2.04	Grass, brown, short.	
		Dec., 1933	.065	.16	.08	.93	.01	.19	.19	5.6	34.7	2.48	Grass.
Heidelberg (Town Lands)	Heidelberg.....	Mar., 1934	.062	.17	.11	.63	.01	.12	4.9	37.6	1.72	Grass, mainly green.	
		June, 1934	.062	.18	.10	.22	trace	.04	3.3	36.9	1.24	Grass, mainly brown.	
		Sept., 1934	.054	.22	.13	.45	trace	.07	4.7	32.2	2.02	Grass, short.	
		Jan., 1935	.16	.30	.12	1.44	.04	.27	8.2	35.5	3.30	Grass, green.	
		April, 1935	.086	.28	.14	.37	.02	.09	5.2	33.6	2.34	Grass.	
		July, 1935	.037	.24	.11	.31	.04	.12	2.9	35.0	1.37	Grass, brown, leafy.	
		Oct., 1935	.090	.22	.11	.58	trace	.01	5.9	32.3	1.80	Grass, mainly green, short.	
		Jan., 1934	.20	.22	.15	1.83	.07	.35	.07	7.5	40.6	4.12	Grass, mainly green.
		April, 1934	.083	.32	.09	.83	.02	.18	trace	4.6	37.0	2.32	Grass, mainly green.
		July, 1934	.048	.16	.07	.25	trace	.03	trace	3.4	40.2	1.33	Grass, brown, long.
Klippoortjie 228	Heidelberg.....	Oct., 1934	.052	.13	.03	.30	trace	.02	4.7	34.7	1.30	Grass, mainly brown.	
		Feb., 1935	.096	.29	.12	.80	.08	.24	5.2	34.2	2.19	Grass, mainly green.	
		May, 1935	.046	.16	.06	.36	trace	.08	trace	3.8	34.6	1.56	Grass, mainly brown, leafy.
		Aug., 1935	.058	.24	.12	.36	trace	.08	trace	2.6	35.6	1.73	Grass, brown, short.
		Feb., 1934	.11	.19	.11	1.41	.02	.35	.02	6.7	40.0	2.83	Grass, mainly green.
		May, 1934	.031	.19	.07	.44	.01	.18	trace	2.5	40.2	1.53	Grass, mainly brown.
		Aug., 1934	.047	.25	.10	.13	trace	.01	trace	2.7	39.7	1.42	Grass, brown.
Eendracht.....	Heidelberg.....	Nov., 1934	.083	.17	.08	.84	.04	.15	6.6	42.1	2.10	Grass, mainly green, long.	
		Mar., 1935	.067	.53	.11	.43	trace	.07	4.1	38.4	1.65	Grass, mainly green, leafy.	
		June, 1935	.084	.22	.07	.32	trace	.06	trace	4.3	37.7	1.88	Grass, brown, leafy.
		Sept., 1935	.058	.38	.14	.42	.05	.08	.08	4.6	31.3	1.95	Grass, brown, short.
		Dec., 1933	.22	.46	.28	2.31	.03	.41	.03	12.4	29.6	5.36	Grass, mainly green, and bush; mostly grass.
		Mar., 1934	.12	.29	.15	1.45	.03	.36	.03	7.0	40.1	3.41	Grass, mainly green.
		June, 1934	.04	.38	.11	.50	.01	.14	.01	3.7	38.7	1.78	Grass, mainly brown.
Dealsgrift.....	Bloemfontein....	Sept., 1934	.066	.25	.15	.55	.01	.14	4.8	35.9	1.85	Grass, mainly brown, leafy, and bush; mostly grass.	
		May, 1935	.17	.31	.13	.93	.03	.19	5.1	35.4	2.57	Grass, mainly green.	

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 8 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Paradys.....	Bloemfontein...	Jan., 1934	.15	.35	.19	2.76	.06	.53	13.3	30.3	5.49	Grass, green.	
		April, 1934	.11	.24	.11	1.00	.01	.22	6.0	34.2	2.16	Grass.	
		July, 1934	.043	.22	.07	.56	.01	.09	.09	2.7	38.3	1.37	Grass, brown.
		Oct., 1934	.13	.33	.08	.95	trace	—	8.0	—	—	2.76	Grass, mainly green, short.
		Feb., 1935	.084	.21	.06	1.26	trace	.07	.07	3.9	36.1	2.56	Grass.
		June, 1935	.11	.44	.14	.92	.03	.13	.13	6.5	31.9	2.91	Grass, mainly green, and bush; mostly grass.
Tanhurynne.....	Bloemfontein...	Feb., 1934	.13	.29	.13	1.76	trace	.26	9.6	34.7	3.78	Grass, green.	
		May, 1934	.036	.24	.09	.46	trace	.09	5.9	36.3	1.62	Grass, mainly brown.	
		Aug., 1934	.044	.18	.07	.28	trace	.03	.03	3.0	38.2	1.02	Grass, brown.
		Dec., 1934	.067	.28	.09	.84	.04	.14	.14	5.8	39.1	2.30	Grass.
		Mar., 1935	.062	.23	.07	.61	trace	.21	.21	4.9	33.0	1.87	Grass, mainly green, and bush; mostly grass.
		Sept., 1935	.10	.32	.14	.66	.21	.23	.23	7.3	32.6	3.72	Grass, short.
Katvctjesvlei.....	Hoopstad.....	Nov., 1933	.073	.26	.10	.96	.02	.14	7.4	31.9	2.60	Grass, short.	
		May, 1934	—	.26	.13	.75	.01	—	3.4	42.0	2.01	Grass, mainly brown, and bush; mostly grass.	
		Aug., 1934	.047	.16	.07	.43	trace	.06	.06	4.6	38.4	1.40	Grass, mainly brown, short.
		Nov., 1934	.11	.24	.12	1.65	.03	.36	.36	7.7	36.4	3.35	Grass, mainly green.
		Feb., 1935	.065	.25	.07	.86	trace	.15	.15	5.1	38.2	2.06	Grass, green.
		May, 1935	.06	.23	.09	.51	trace	.08	.08	3.7	41.1	1.68	Grass and bush; mostly grass.
Wintershoek.....	Hoopstad.....	Aug., 1935	.088	.25	.11	.70	.07	.16	5.5	34.9	2.13	Grass, mainly brown, short.	
		Dec., 1933	.17	.45	.19	2.36	.05	.39	12.5	28.6	5.17	Grass, green, and bush; mostly grass.	
		Mar., 1934	.16	.34	.20	1.82	.04	.46	.46	9.8	32.8	4.28	Grass, green.
		June, 1934	.07	.36	.15	.53	.01	.11	.11	4.7	42.7	2.12	Grass, mainly brown, and bush; mostly grass.
		Sept., 1934	.15	.44	.20	1.69	.04	.43	.43	9.6	33.8	3.71	Grass, mainly brown, short, and bush; mostly grass.
		Dec., 1934	.11	.25	.13	1.60	.03	.35	.35	6.1	38.8	3.06	Grass, green.
Rustvlei.....	Hoopstad.....	Mar., 1935	.056	.27	.08	.97	trace	.14	5.9	36.2	2.40	Grass, mainly green.	
		June, 1935	.12	.55	.28	1.17	trace	.21	8.4	37.2	3.73	Grass, mainly brown, and bush.	
		Sept., 1935	.093	.36	.11	.85	.02	.11	.11	5.4	36.6	2.57	Grass and bush; mostly grass.
		Jan., 1934	.16	.29	.15	2.16	.12	.39	.39	9.1	38.3	4.13	Grass, mainly green.
		April, 1934	.11	.28	.12	1.15	.02	.25	.25	5.9	40.3	2.81	Grass.
		July, 1934	.098	.35	.10	.51	.01	.09	.09	3.4	34.4	1.93	Grass, brown, leafy.
Rustvlei.....	Hoopstad.....	Oct., 1934	.10	.56	.19	1.51	.03	.46	7.3	33.3	3.85	Grass, mainly green.	
		Jan., 1935	.075	.31	.13	.79	.02	.19	5.4	37.6	2.18	Grass, mainly green.	
		April, 1935	.11	.32	.12	1.17	.14	.21	.21	6.8	31.1	2.81	Grass, mainly green, short.
		July, 1935	.092	.36	.11	.63	.02	.10	.10	4.1	37.6	2.40	Grass, brown and bush; mostly grass.
		Oct., 1935	.089	.42	.12	1.08	.05	.26	.26	6.0	32.7	3.31	Grass.

## AREA 8 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Maud Allan.....	Kroonstad.....	April, 1934	.11	.29	.17	1.18	.03	.32	6.0	36.2	2.66	Grass, mainly green.
		July, 1934	.065	.26	.09	.70	.01	.05	5.2	36.9	2.11	Grass, brown.
		Oct., 1934	.096	.25	.13	1.29	trace	.23	6.2	34.7	2.64	Grass, mainly green.
		Jan., 1935	.076	.25	.11	1.17	.02	.22	5.7	35.4	2.37	Grass, mainly green.
Moodiam.....	Kroonstad.....	Feb., 1934	.19	.22	.17	2.40	.04	.59	8.3	36.6	4.25	Grass, mainly green.
		May, 1934	.05	.50	.10	.64	trace	.13	3.8	33.5	2.58	Grass, leafy.
		Aug., 1934	.055	.31	.10	.22	trace	.02	3.8	37.6	1.45	Grass, mainly brown.
		Nov., 1934	.11	.25	.06	1.62	trace	.21	5.7	37.1	2.47	Grass, mainly green.
		May, 1935	.10	.32	.13	.44	trace	.09	3.3	36.8	1.74	Grass, mainly brown.
		Aug., 1935	.044	.34	.12	.16	.02	.08	2.0	41.2	1.74	Grass, brown, leafy.
Lerna.....	Kroonstad.....	Mar., 1934	.11	.24	.14	2.03	.03	.90	9.3	32.9	4.95	Grass, mainly green.
		June, 1934	.068	.23	.14	.42	.02	.16	2.4	38.1	1.56	Grass, mainly brown.
		Dec., 1934	.12	.31	.12	1.34	.24	.36	6.4	33.1	3.13	Grass, mainly green.
		Mar., 1935	.10	.30	.07	.88	trace	.18	6.1	37.0	2.35	Grass, mainly green, leafy
		June, 1935	.072	.31	.10	.38	trace	.07	3.4	37.3	1.52	Grass, brown, leafy.
		Sept., 1935	.06	.26	.07	.22	.02	.19	4.2	38.2	1.47	Grass, brown, leafy.
Palmietkuil.....	Winburg.....	Dec., 1933	.17	.30	.11	1.88	.05	.25	9.5	33.9	3.83	Grass, mainly green.
		Mar., 1934	.098	.39	.10	1.29	.02	.16	5.8	31.0	2.95	Grass, mainly green.
		June, 1934	.07	.44	.09	.34	.09	.13	3.4	35.4	2.12	Grass, mainly brown.
		Dec., 1934	.10	.34	.08	.98	trace	.24	5.9	34.9	2.45	Grass, green, leafy.
		Mar., 1935	.07	.35	.04	.44	.02	.08	4.1	33.7	1.76	Grass, mainly brown, leafy.
		June, 1935	.052	.24	.07	.20	trace	.05	2.9	35.8	1.24	Grass, brown, leafy.
		Sept., 1935	.054	.26	.06	.15	.02	.02	3.1	34.3	1.40	Grass, brown, leafy.
Koppiesfontein Wes	Winburg.....	Jan., 1934	.17	.30	.12	1.86	.03	.43	6.3	40.1	3.40	Grass, green.
		April, 1934	.14	.37	.12	1.00	.03	.18	4.8	34.2	2.68	Grass, mainly green.
		July, 1934	.075	.23	.08	.26	.01	.04	2.3	40.6	1.32	Grass, brown.
		Oct., 1934	.07	.31	.11	.33	.03	.05	3.8	34.5	1.64	Grass, brown, leafy.
		Jan., 1935	.082	.25	.13	1.09	.02	.23	4.3	34.6	2.33	Grass, mainly green, leafy.
		April, 1935	.11	.33	.14	.53	.02	.18	4.4	33.4	2.29	Grass, leafy.
		July, 1935	.11	.42	.09	.23	.02	.07	2.8	40.8	1.72	Grass, brown, leafy.
Oct., 1935	.073	.37	.08	.33	.02	.04	4.0	31.4	2.08	Grass, brown; leafy.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 8 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Fraai Uitzicht....	Winburg.....	Feb., 1934	.11	.21	.11	1.24	.04	.27	6.4	37.0	2.98	Grass, mainly green.	
		May, 1934	.12	.31	.15	.67	.03	.16	3.4	37.4	2.23	Grass, mainly brown.	
		Aug., 1934	.078	.35	.17	.19	trace	.01	.33	3.3	32.9	1.44	Grass, brown, leafy.
		Nov., 1934	.096	.25	.09	.55	.02	.10	.53	5.3	36.7	1.67	Grass, mainly green.
		Feb., 1935	.082	.21	.12	.67	trace	.08	4.4	34.7	1.60	Grass, mainly green, leafy.	
		May, 1935	.11	.39	.14	.35	trace	.07	3.5	34.4	1.69	Grass, mainly brown, leafy.	
		Aug., 1935	.09	.36	.16	.30	.01	.07	2.4	33.1	1.83	Grass, brown, leafy.	
Welgeduk.....	Brandfort.....	Jan., 1934	.16	.21	.10	1.82	.04	.33	6.8	41.9	3.41	Grass, mainly green, long.	
		April, 1934	.083	.26	.12	1.41	.02	.35	4.3	39.9	2.91	Grass and bush; mostly grass.	
		Nov., 1934	.052	.38	.11	.41	trace	.06	3.4	33.8	2.43	Grass, mainly brown and bush; mostly grass.	
		Feb., 1935	.11	.32	.08	.96	trace	.08	5.1	38.5	2.29	Grass, mainly green.	
		June, 1935	.12	.33	.21	.69	trace	.16	5.1	31.5	2.10	Grass, leafy.	
Enkeldoorn.....	Brandfort.....	Mar., 1934	.10	.27	.15	1.71	.07	.30	7.4	37.1	3.54	Grass, mainly green.	
		June, 1934	.06	.26	.07	.32	trace	.05	3.1	37.1	1.43	Grass, mainly brown.	
		Jan., 1935	.08	.22	.09	1.19	.02	.33	4.9	40.0	2.31	Grass, mainly green, long.	
		April, 1935	.093	.27	.12	.80	.03	.14	6.1	32.2	2.27	Grass, green, leafy.	
		Sept., 1935	.12	.33	.12	.59	.01	.13	4.4	36.6	2.22	Grass, brown.	
Spytfontein.....	Brandfort.....	May, 1934	—	.32	.19	.85	.02	—	5.0	34.7	2.21	Grass.	
		Dec., 1934	.10	.28	.12	1.39	.05	.33	7.5	34.0	2.89	Grass, mainly green.	
		Mar., 1935	.14	.40	.11	.82	trace	.12	5.7	36.1	2.42	Grass, green.	
		June, 1935	.098	.31	.11	.59	trace	.10	4.3	35.2	2.23	Grass.	

## AREA 9.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Bothashoek No. 24 P.O. Noodshulp	Middelburg.....	Dec., 1933	.14	.30	.12	1.45	.04	.21	7.6	31.1	4.00	Grass, green, short.	
		Mar., 1934	.073	.18	.13	.90	.03	.18	6.1	32.1	2.45	Grass, mainly green, short.	
		June, 1934	.047	.23	.12	.52	trace	.10	.3.3	3.3	31.8	2.07	Grass, mainly brown, short.
		Oct., 1934	.073	.14	.10	.65	.03	.16	5.0	—	—	2.01	Grass, short.
		Jan., 1935	.10	.53	.13	1.08	.03	—	—	—	—	2.28	Grass, green, short.
		April, 1935	.094	.21	.10	.75	.02	.20	3.2	3.2	33.1	2.24	Grass, green, snort.
		July, 1935	.071	.18	.08	.31	.07	.14	2.6	2.6	34.4	1.40	Grass, mainly brown, short.
		Oct., 1935	.057	.19	.09	.34	.02	.08	4.1	4.1	35.1	1.61	Grass, brown, short.
		Jan., 1934	.090	.23	.12	1.13	.14	.40	7.5	7.5	36.8	2.75	Grass, green, short.
		April, 1934	.058	.19	.12	.97	.02	.18	4.2	4.2	30.1	1.98	Grass, mainly green, short.
Platfontein No. 237	Middelburg.....	July, 1934	.042	.20	.09	.41	.01	.08	4.2	32.5	1.55	Grass, mainly brown, short.	
		Nov., 1934	.13	.52	.18	1.80	.15	—	—	—	4.20	Grass, green, short.	
		Feb., 1935	.10	.36	.14	.98	.07	.21	6.0	6.0	32.5	3.08	Grass, green, short.
		May, 1935	.051	.39	.14	.53	.07	.16	3.4	3.4	30.6	2.68	Grass, short.
		Aug., 1935	.049	.23	.11	.41	trace	.17	2.8	2.8	33.1	2.29	Grass, brown, short.
		Nov., 1933	.11	.15	.11	1.10	.02	.22	7.8	7.8	32.3	2.58	Grass, green.
		Feb., 1934	.095	.28	.14	.99	.01	.18	6.5	6.5	36.4	2.42	Grass, mainly green.
		May, 1934	.061	.28	.13	.42	.01	.12	3.3	3.3	34.0	1.71	Grass, mainly brown, leafy.
		Aug., 1934	.053	.24	.10	.13	trace	.01	2.6	2.6	37.1	1.21	Grass, brown, leafy.
		Nov., 1934	.083	.16	.11	.95	.03	.23	6.8	6.8	32.0	2.40	Grass, mainly green, leafy.
May, 1935	.044	.21	.14	.56	.02	.18	3.2	3.2	35.5	1.86	Grass, short.		
Bantfontein 234	Middelburg.....	Dec., 1933	.086	.19	.11	1.16	.02	.21	3.8	37.6	2.13	Grass.	
		Mar., 1934	.091	.26	.16	1.29	.03	.27	5.4	39.1	2.60	Grass, mainly green, short.	
		June, 1934	.033	.19	.08	.30	.01	.06	3.3	3.3	37.0	1.15	Grass, mainly brown, leafy.
		Sept., 1934	.047	.27	.06	.21	trace	.03	3.3	3.3	35.3	1.24	Grass, mainly brown, leafy.
		Mar., 1935	.074	.25	.15	.86	trace	.14	4.3	4.3	37.1	2.02	Grass, mainly green, leafy.
		June, 1935	.074	.25	.09	.34	.02	.08	2.8	2.8	42.2	1.66	Grass, mainly brown, leafy.
Hartbeesthoek, P.O. Arnot	Middelburg.....	Jan., 1934	.078	.22	.11	1.12	.02	.22	6.2	33.4	2.49	Grass, mainly green, short.	
		April, 1934	.10	.34	.13	.92	.01	.19	4.5	34.0	2.44	Grass, brown, leafy.	
		July, 1934	.067	.29	.05	.51	trace	.06	4.5	4.5	36.7	1.25	Grass, mainly green, leafy.
		Jan., 1935	.068	.21	.10	.91	.02	.24	3.9	3.9	36.7	2.29	Grass, mainly green, leafy.
		April, 1935	.072	.41	.10	.97	.02	.21	3.9	3.9	33.8	2.60	Grass, mainly green, leafy.



FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 9 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.		
Gemsbokspruit, P.O. Molayta	Middelburg.....	Nov., 1933	.16	.60	.41	4.56	.05	.57	14.0	24.3	10.60	Grass, mainly brown and bush. Grass, mainly green and bush; mostly grass.		
		Feb., 1934	.075	.28	.13	1.39	trace	.19	5.1	37.0	3.00			
		May, 1934	.039	.32	.11	.57	.02	.04	.04	3.0	37.5	1.77	Grass, mainly brown and bush; mostly grass.	
		Aug., 1934	.021	.17	.08	.25	trace	.03	.03	2.7	37.2	.94	Grass, brown, short.	
		Nov., 1934	.12	.35	.16	2.32	trace	.23	.23	8.3	31.6	3.99	Grass, green, leafy.	
		Feb., 1935	.089	.35	.13	1.34	trace	.24	.24	6.8	37.2	3.36	Grass, green, long.	
		May, 1935	.063	.41	.18	1.21	.12	.12	.12	6.1	31.4	2.99	Grass, mainly brown and bush.	
		Aug., 1935	.065	.48	.19	.84	trace	.21	.21	4.1	35.1	2.83	Grass, brown, leafy and bush; mostly grass.	
Vogelstruiskopje, P.O. Ottensville	Middelburg.....	Dec., 1933	.20	1.78	.43	2.88	.78	1.24	14.2	27.7	10.40	Grass, green and bush. Grass, green, long and bush mostly grass.		
		Mar., 1934	.16	1.22	.48	2.12	.42	.99	10.9	28.5	7.77			
		June, 1934	.11	1.46	.36	1.59	.29	.48	.48	7.3	40.1	7.16	Grass, long and bush; mostly grass.	
		Sept., 1934	.037	.15	.07	.04	.02	.06	.06	3.2	40.6	1.15	Grass, brown, long.	
		Dec., 1934	.16	1.40	.55	3.47	.31	.76	.76	11.7	31.8	10.30	Grass, mainly green, leafy and bush; mostly grass.	
		Mar., 1935	.18	1.36	.58	2.70	.12	.73	.73	11.3	35.3	8.40	Grass, mainly green and bush; mostly grass.	
		June, 1935	.09	1.07	.21	.67	.13	.30	.30	5.1	36.0	4.10	Grass, brown, leafy.	
		Sept., 1935	.036	.60	.13	.68	.03	.11	.11	3.4	39.8	2.62	Grass, brown, long and bush; mostly grass.	
		Zoetvelden.....	Middelburg.....	Jan., 1934	.14	.36	.24	2.12	.03	.16	6.9	42.3	4.95	Grass, mainly green, long. Grass, long.
				April, 1934	.13	.29	.18	2.01	.36	.80	.80	7.1	35.7	
July, 1934	.078			.70	.09	.85	.01	.10	.10	4.8	35.8	2.32	Grass, brown, leafy.	
Oct., 1934	.032			.15	.05	.17	trace	.03	.03	3.2	35.8	1.12	Grass, brown, leafy.	
Jan., 1935	.058			.24	.10	.75	.02	.18	.18	4.1	36.9	1.77	Grass, mainly green, long.	
April, 1935	.043			.18	.08	.46	.07	.09	.09	3.1	34.9	1.57	Grass, mainly brown, leafy.	
July, 1935	.044			.20	.11	.51	.02	.14	.14	3.2	39.7	1.39	Grass, brown, leafy.	
Oct., 1935	.056			.19	.05	.56	.03	.07	.07	4.4	37.3	1.73	Grass, brown, leafy.	
Dorpsplaats, P.O. Roosenekal	Middelburg.....			Nov., 1933	.081	.22	.10	.76	.15	.35	6.2	39.7	2.55	Grass, mainly green, and bush; mostly grass.
				Feb., 1934	.090	.42	.17	1.37	.02	.24	8.4	31.2	3.22	
		May, 1934	.033	.37	.14	.47	trace	.14	.14	3.0	35.7	1.90	Grass, mainly brown.	
		Aug., 1934	.034	.40	.11	.19	trace	.01	.01	2.4	34.0	1.61	Grass, brown, leafy.	
		Nov., 1934	.15	.36	.16	1.60	trace	.18	.18	12.8	27.7	3.44	Grass, mainly green, short, and bush; mostly grass.	
		Feb., 1935	.15	.45	.10	1.31	trace	.23	.23	8.1	29.6	3.91	Grass, green, leafy.	
		May, 1935	.05	.34	.12	.34	.02	.08	.08	3.2	39.5	1.95	Grass, leafy.	
		Aug., 1935	.059	.39	.13	.38	trace	.14	.14	2.4	36.2	2.36	Grass, brown.	

## AREA 9 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
De Lagersdrift No. 108	Middelburg . . . .	Dec., 1933	.10	.32	.15	.92	.02	.21	6.8	37.5	2.46	Grass.	
		Mar., 1934	.093	.77	.21	.83	.02	.15	6.6	33.5	4.07	Grass, mainly green, short, and bush; mostly grass.	
		June, 1934	.042	.39	.13	.28	trace	.07	2.4	2.4	32.4	1.78	Grass, mainly brown, leafy.
		Sept., 1934	.044	.47	.12	.12	trace	.02	.37	3.7	31.3	2.08	Grass, brown, leafy.
		Dec., 1934	.11	.36	.14	1.60	.03	.34	8.7	29.1	4.00	3.11	Grass, green, leafy.
		Mar., 1935	.11	.39	.15	1.02	trace	.17	6.0	35.3	3.11	3.11	Grass, mainly green, leafy.
		June, 1935	.077	.43	.14	.24	trace	.07	2.7	31.5	2.22	2.12	Grass, brown, short.
		Sept., 1935	.029	.37	.11	.21	.04	.06	2.4	33.1	2.12	2.12	Grass, brown, short.
		Jan., 1934	.18	.34	.15	1.88	.03	.27	8.1	35.6	4.17	4.17	Grass, mainly green.
Diephloof No. 539	Middelburg . . . .	April, 1934	.22	.28	.12	1.00	.02	.04	6.0	37.4	2.72	Grass.	
		July, 1934	.066	.31	.10	.32	trace	.07	2.9	38.9	1.91	1.91	Grass, brown.
		Oct., 1934	.13	.28	.09	.47	.02	.07	2.4	41.2	1.98	1.98	Grass, brown, long.
		Jan., 1935	.17	.31	.15	1.61	.05	.55	9.4	30.7	3.87	3.87	Grass, green, leafy.
		April, 1935	.087	.38	.17	1.88	trace	.61	4.6	35.8	4.17	4.17	Grass, mainly green, long.
		July, 1935	.092	.34	.12	.81	.02	.15	2.7	34.9	1.99	1.99	Grass, brown, leafy.
		Oct., 1935	.058	.40	.08	.43	trace	.05	2.5	31.0	1.91	1.91	Grass, brown, leafy.
		Dec., 1933	.13	.27	.21	1.52	.03	.25	9.7	31.4	3.30	3.30	Grass, mainly green, short.
		Mar., 1934	.079	.39	.17	.83	trace	.15	6.9	32.9	2.41	2.41	Grass, green, short.
Olifantslaagte No. 115, P.O. Leeuwklip	Middelburg . . . .	Sept., 1934	.037	.21	.07	.13	trace	—	3.9	35.6	1.12	Grass, brown, leafy.	
		Nov., 1933	.065	.21	.09	.48	.02	.13	4.1	37.1	1.83	1.83	Grass, short.
		Feb., 1934	.065	.21	.16	1.16	.03	.24	6.4	33.8	2.42	2.42	Grass, mainly green, short.
		May, 1934	.030	.24	.13	.51	trace	.14	3.0	36.6	1.78	1.78	Grass, mainly brown, short.
		Aug., 1934	.047	.31	.13	.38	.01	.08	4.1	32.8	2.35	2.35	Grass, brown, short.
		Dec., 1934	.12	.22	.11	1.57	.07	—	—	—	3.27	3.27	Grass, green, short.
		Mar., 1935	.075	.17	.10	.55	trace	.10	5.7	34.6	1.78	1.78	Grass, mainly green, short.
		June, 1935	.073	.12	.06	.27	trace	.06	3.1	33.5	1.00	1.00	Grass, mainly brown, short.
		Sept., 1935	.028	.11	.05	.27	.02	.09	3.3	32.4	1.01	1.01	Grass, brown, short.
Waterhonthoorn No. 523, P.O. Graskop	Pilgrimsrest . . . .	Nov., 1933	.11	.24	.16	1.59	.08	.40	7.2	34.0	3.45	Grass, green.	
		Feb., 1934	.10	.16	.13	1.48	.13	.42	6.1	39.5	2.99	2.99	Grass, mainly green, and bush; mostly grass.
		May, 1934	.07	.22	.17	.85	.13	.40	3.6	39.6	2.25	2.25	Grass.
		Aug., 1934	.037	.24	.12	.15	trace	.02	2.3	43.3	1.25	1.25	Grass, brown.
		Nov., 1934	.079	.27	.17	.95	.03	.30	6.2	38.0	2.49	2.49	Grass, mainly green, leafy.
		July, 1935	.057	.30	.13	.39	.03	.12	3.4	38.2	2.15	2.15	Grass, mainly brown, short.
		Oct., 1935	.050	.23	.08	.29	.02	.03	3.5	38.1	1.81	1.81	Grass, brown, short.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 9 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.		
Injaka No. 251, Bushbuckridge	Pilgrimsrest....	Dec., 1933	.12	.25	.19	1.56	.05	.44	7.1	36.2	3.30	Grass, mainly green. Grass, mainly green, and bush; mostly grass.		
		Mar., 1934	.088	.30	.16	1.30	trace	.30	6.9	42.5	2.69			
		June, 1934	.066	.27	.12	.73	.01	.17	.03	3.7	36.0	1.88	Grass. Grass, brown.	
		Sept., 1934	.030	.24	.10	.06	.02	.03	.03	3.3	36.1	1.14		
		Dec., 1934	.061	.19	.09	.58	trace	.07	.55	5.5	35.3	2.13	Grass, leafy. Grass, short.	
		Mar., 1935	.12	.26	.13	1.44	.03	.32	.60	6.0	34.4	3.71		
		June, 1935	.069	.32	.17	.85	.06	.27	.44	5.3	38.2	2.49	Grass, mainly brown, leafy. Grass, brown, short.	
		Sept., 1935	.067	.32	.18	1.30	.07	.51	.53	5.3	40.3	2.98		
		Buffalshock No. 425, P.O. Cottondale	Pilgrimsrest....	Jan., 1934	.27	.27	.18	2.62	.47	.53	8.7	39.3	5.50	Grass, green. Grass, mainly green.
April, 1934	.16			.26	.12	1.31	.19	.39	.70	7.0	37.1	3.40		
Oct., 1934	.055			.37	.15	.41	.03	.11	.37	3.7	36.0	1.86	Grass, mainly brown. Grass, mainly green.	
Feb., 1935	.11			.36	.22	1.35	.20	.48	.62	6.2	34.2	3.52		
May, 1935	.11			.40	.22	1.27	.11	.37	.51	5.1	35.4	3.38	Grass. Grass, mainly brown.	
Aug., 1935	.093			.34	.15	.46	.02	.14	.27	2.7	40.8	1.67		
Steelpoortdrift No. 684, P.O. Burgersfort	Lydenburg....			Nov., 1933	.26	1.00	.54	3.30	.17	.16	22.5	23.2	10.10	Grass and bush; mostly bush. Grass, green, and bush; mostly bush.
				Feb., 1934	.28	1.39	.62	3.13	.21	.61	16.4	24.5	11.10	
		May, 1934	.12	1.33	.37	1.81	.05	.31	.11	11.3	26.5	6.69	Bush. Grass, brown, long, and bush.	
		Aug., 1934	.077	.56	.17	.99	.03	.16	.60	6.0	31.8	3.02		
		Feb., 1935	.18	1.05	.27	1.78	.08	.74	.11	11.3	32.3	5.98	Grass, green, and bush; mostly bush. Grass, mainly green, and bush; mostly bush.	
		May, 1935	.13	1.34	.52	2.01	.06	.48	.10	10.5	33.0	7.58		
		Aug., 1935	.084	.42	.23	.87	.11	.48	.52	5.2	38.2	2.96	Grass, mainly green, and bush; mostly grass. Grass, mainly green, short and, bush; mostly bush.	
		Dec., 1933	.17	1.36	.29	2.29	.35	.34	12.6	27.9	27.9	7.53		
Blouwblommucities- kloof No. 399	Lydenburg....	Mar., 1934	.14	1.71	.52	1.51	.41	.38	11.8	28.2	8.04	Bush. Grass, mainly green, short and, bush; mostly bush.		
		June, 1934	.093	2.59	.65	1.46	.11	.40	11.7	33.7	10.10			
		Sept., 1934	.080	3.57	.66	1.12	.45	1.70	17.1	30.2	17.10	Bush. Bush.		
		Mar., 1935	.19	1.76	.65	2.14	.58	.64	15.8	27.9	10.15			
		June, 1935	.16	2.17	.57	1.80	.18	.22	13.3	29.1	9.86	Bush. Bush.		
		Sept., 1935	.09	2.22	.58	1.10	.27	.75	10.0	29.3	9.32			
		Schoonoord No. 774	Lydenburg....	Jan., 1934	.096	.70	.27	1.62	.03	.51	10.7	33.4	6.86	Grass, mainly green. Grass, mainly green, leafy and bush.
				April, 1934	.10	1.19	.39	1.04	.04	.21	12.8	30.3	4.88	
				July, 1934	.048	.46	.25	.61	.02	.18	.64	6.4	31.1	4.02
Oct., 1934	.16			.91	.26	1.39	.04	.28	14.1	21.2	5.16			
April, 1935	.090			1.01	.38	.57	.02	.19	8.0	32.4	4.34	Grass, mainly green and bush. Bush.		
July, 1935	.096			1.77	.40	.86	.06	.40	11.3	28.3	6.48			
Oct., 1935	.17			.69	.25	1.16	.03	.25	13.2	24.3	24.3	4.36	Grass, leafy and bush; mostly bush.	

## AREA 9 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Weltevreden No. 743, P.O. Rust-plaats	Lydenburg.....	Nov., 1933	.15	.27	.15	1.77	.04	.56	7.7	33.5	3.96	Grass, mainly green.
		Feb., 1934	.092	.26	.12	.80	.03	.18	5.0	39.5	2.22	Grass, mainly green.
		May, 1934	.039	.18	.07	.61	trace	.09	2.9	41.0	1.50	Grass, mainly brown, long.
		Aug., 1934	.047	.22	.08	.45	.01	.38	2.5	40.3	1.38	Grass, brown, long.
		Oct., 1934	.22	.30	.22	2.26	.05	.73	9.6	31.7	4.34	Grass, green.
		Feb., 1935	.064	.18	.07	.81	.02	.16	3.8	38.5	1.62	Grass, mainly green, long.
		April, 1935	.072	.28	.16	.76	.05	.17	2.9	37.7	2.12	Grass, long.
		Sept., 1935	.052	.44	.16	.36	.05	.11	3.2	34.9	2.23	Grass, brown.
		Dec., 1933	.23	.34	.20	2.23	.05	.39	15.1	31.2	5.17	Grass, green.
		Mar., 1934	.052	.14	.09	.84	.01	.14	3.7	42.2	1.70	Grass, long.
Uitspanning No. 502, P.O. Vaal-hoek	Pilgrimsrest.....	June, 1934	.038	.18	.06	.42	trace	.10	3.7	38.5	2.70	Grass, mainly brown.
		Sept., 1934	.038	.12	.06	.39	.02	.04	3.2	42.5	1.05	Grass, brown, long.
		Jan., 1935	.058	.14	.09	.70	.02	.14	4.4	40.0	1.38	Grass, mainly green.
		May, 1935	.056	.29	.13	.42	.02	.11	2.9	40.7	1.69	Grass, mainly brown.
		April, 1934	.050	.21	.14	.75	.01	.14	4.1	42.2	1.85	Grass, mainly brown, long.
Krugerspost.....	Lydenburg.....	July, 1934	.036	.23	.11	.36	trace	.11	2.5	41.0	1.70	Grass, brown, long.
		Nov., 1934	.065	.23	.09	.59	.02	.10	4.9	39.3	1.55	Grass, mainly green.
		Mar., 1935	.084	.17	.11	1.11	trace	.13	4.9	39.2	2.30	Grass, mainly green, long.
		Nov., 1933	.14	.22	.14	1.15	.04	.28	9.6	32.6	2.87	Grass, mainly green.
		Feb., 1934	.12	.22	.10	1.23	.03	.15	8.5	37.5	2.55	Grass.
Kraankloof No. 143, P.O. Krugerspost	Lydenburg.....	June, 1934	.081	.41	.11	.57	.02	.12	7.5	34.7	2.21	Grass, mainly brown, leafy.
		Nov., 1934	.14	.25	.14	1.26	.04	.27	11.1	35.2	2.82	Grass, green.
		May, 1935	.036	.23	.10	.27	trace	.07	3.7	40.1	1.52	Grass, mainly brown, leafy.
		Aug., 1935	.059	.26	.08	.16	trace	.06	3.2	38.8	1.30	Grass, brown, leafy.
		Dec., 1933	.10	.18	.13	2.05	.04	.19	7.3	33.1	2.27	Grass, green.
Kraaibosch No. 145	Lydenburg.....	Mar., 1934	.083	.21	.14	.78	.03	.18	7.0	35.5	1.88	Grass, mainly green.
		May, 1934	.036	.31	.18	.43	.01	.08	4.3	38.2	1.55	Grass, mainly brown, leafy.
		June, 1935	.076	.27	.08	.37	trace	.07	3.9	37.2	1.86	Grass, brown, leafy.
		Sept., 1935	.036	.23	.07	.09	.09	.08	3.3	34.6	1.24	Grass, brown, short.
		Jan., 1934	.18	.27	.13	1.24	.06	.26	6.2	36.4	3.37	Grass, green.
Sterkspruit No. 159	Lydenburg.....	April, 1934	.081	.22	.17	.95	.03	.16	6.1	36.7	2.23	Grass, mainly green.
		July, 1934	.049	.45	.13	.30	.02	.10	2.8	38.4	1.75	Grass, brown.
		July, 1935	.043	.29	.10	.17	.01	.08	2.9	42.5	1.38	Grass, brown.
		Oct., 1935	.17	.43	.19	1.64	.04	.47	13.4	34.7	3.49	Grass, green, leafy.
		Dec., 1933	.12	.34	.15	.87	.03	.62	5.4	35.4	2.57	Grass, mainly green.
The Retreat.....	Barberton.....	Mar., 1934	.10	.34	.16	1.03	.01	.32	5.6	33.9	2.94	Grass, short.
		June, 1934	.044	.34	.19	.71	.01	.30	2.4	35.0	2.57	Grass, mainly brown, short.
		Aug., 1934	.047	.33	.17	.34	trace	.09	3.1	37.2	1.71	Grass, mainly brown, short.
		Nov., 1934	.072	.31	.08	.48	.04	.13	3.4	36.5	2.06	Grass, brown, short.
		Feb., 1935	.11	.44	.17	1.13	.05	.33	6.8	32.7	3.43	Grass, mainly green, short.
April, 1935	.052	.38	.16	.84	trace	.08	5.4	36.9	2.68	Grass, mainly green, leafy.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 9 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Goedchoop No. 259	Barberton.....	Jan., 1934	.18	.32	.23	1.17	.03	.29	7.0	36.8	3.38	Grass.
		April, 1934	.18	.26	.25	1.06	.04	.20	6.3	39.1	2.98	Grass, short.
		July, 1934	.17	.21	.14	1.01	.03	.20	5.7	37.9	2.53	Grass, short.
		Oct., 1934	.12	.19	.12	.50	.03	.08	3.0	36.8	1.68	Grass, brown, short.
		Jan., 1935	.12	.31	.30	1.03	.03	.35	4.9	37.6	2.80	Grass, mainly green, leafy.
My Own No. 98..	Barberton.....	Feb., 1934	.096	.27	.29	.96	.05	.34	6.6	35.2	2.74	Grass, mainly green.
		May, 1934	.064	.21	.21	.54	.03	.23	5.3	35.4	1.82	Grass, short.
Sableshoek No. 135, P.O. Sabie	Pilgrimsrest....	Nov., 1933	.16	.35	.27	1.86	.14	.64	10.3	34.2	4.59	Grass, green.
		Feb., 1934	.089	.26	.19	1.08	.13	.27	5.4	36.6	2.97	Grass, mainly green, short.
		May, 1934	.10	.25	.29	1.19	.03	.18	5.8	35.3	2.64	Grass.
		Aug., 1934	.065	.21	.14	.51	.01	.07	3.2	45.5	1.76	Grass, brown.
		Nov., 1934	.14	.24	.18	1.55	.06	.38	10.0	35.5	3.28	Grass, green, leafy.
Rietfontein No. 84 P.O. Sabie	Pilgrimsrest....	Aug., 1935	.091	.27	.13	.51	trace	.08	3.0	41.8	1.82	Grass, brown.
		Nov., 1935	.14	.48	.15	1.39	trace	.32	7.1	34.6	3.56	Grass, green, leafy.
		Dec., 1933	.079	.37	.16	.92	.03	.33	6.4	36.6	3.57	Grass, mainly brown.
Lot No. 30, P.O. Goudstroom	Pilgrimsrest....	April, 1934	.11	.30	.14	1.25	.03	.27	5.7	33.2	2.88	Grass.
		July, 1934	.065	.44	.18	.66	.02	.20	5.1	36.2	2.38	Grass, mainly brown and bush ; mostly grass.
		Oct., 1934	.058	.31	.13	.55	.05	.19	4.5	35.1	2.20	Grass.
		July, 1935	.067	.27	.12	.23	.04	.08	4.1	39.6	1.53	Grass, brown, leafy.
		Oct., 1935	.087	.20	.06	.70	.01	.11	13.0	33.2	2.48	Grass, leafy.
Louisville, P.O. Louws Creek	Barberton.....	Jan., 1934	.15	.42	.23	1.99	.04	.54	6.4	39.0	4.76	Grass, mainly green.
		April, 1934	.088	.23	.16	1.28	.03	.38	5.7	36.6	2.82	Grass.
		June, 1934	.077	.25	.12	.83	.02	.31	3.6	39.0	2.29	Grass, mainly brown.
		Sept., 1934	.043	.25	.18	.39	trace	.10	3.2	41.7	1.75	Grass, mainly brown.
		Dec., 1934	.11	.22	.15	1.96	.05	.45	8.5	36.5	3.53	Grass, green.
Lancaster, P.O. Eureka	Barberton.....	June, 1935	.08	.27	.14	.40	.02	.09	3.9	38.8	1.63	Grass, brown, leafy.
		Sept., 1935	.046	.21	.11	.35	.03	.07	4.0	37.9	1.75	Grass, brown, short.
		Dec., 1935	.09	.28	.15	1.15	.04	.27	6.5	35.0	3.38	Grass, mainly green.
		Dec., 1933	.14	.42	.36	2.27	.11	.73	10.1	31.5	5.32	Grass, green, short.
		Mar., 1934	.061	.35	.18	1.22	.02	.33	4.2	36.5	2.83	Grass, mainly green.
Lancaster, P.O. Eureka	Barberton.....	July, 1934	.071	.27	.19	.62	.20	.50	4.7	36.9	2.42	Grass, leafy.
		Jan., 1935	.20	.32	.21	1.95	.22	.52	5.5	34.7	4.18	Grass, mainly green, leafy.
		Feb., 1934	.13	.25	.24	.97	.09	.29	—	36.8	2.47	Grass, green.
		Aug., 1934	.093	.65	.32	.81	.07	.21	6.7	35.1	3.34	Grass, mainly brown and bush ; mostly grass.
		Nov., 1934	.17	.32	.15	.95	.02	.25	6.3	36.5	2.76	Grass, mainly green, leafy.
Lancaster, P.O. Eureka	Barberton.....	Feb., 1935	.17	.37	.24	2.20	.16	.42	11.7	34.0	4.56	Grass, green, leafy.
		May, 1935	.12	.42	.37	1.75	.20	.69	9.2	36.4	4.54	Grass, green.

## AREA 9 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Albert Heine, P.O. Louws Creek	Barberton.....	Sept., 1934	.052	.31	.09	.26	.01	.09	3.5	35.9	1.60	Grass, mainly brown.
		Dec., 1934	.065	.21	.30	.73	.52	.40	6.5	39.4	2.80	Grass, mainly green, leafy.
		Mar., 1935	.14	.37	.18	1.29	.09	.32	9.0	35.3	3.82	Grass, green.
Sterkspruit, P.O. Hectorspruit	Barberton.....	Dec., 1933	.15	.38	.38	3.18	.25	.94	7.5	37.1	6.15	Grass and bush; mostly grass.
		Mar., 1934	.15	.66	.30	1.76	.06	.61	9.2	35.0	4.93	Grass and bush; mostly grass.
		July, 1934	.082	.46	.28	.75	.05	.22	.55	36.4	2.69	Grass, mainly brown and bush; mostly grass.
		Nov., 1934	.14	.39	.17	1.73	.11	.75	11.3	36.2	3.98	Grass, mainly green.
		Feb., 1935	.094	.25	.22	1.44	.28	.41	6.9	40.4	3.30	Grass, green.
		May, 1935	.074	.29	.16	.53	.09	.49	5.0	37.9	3.01	Grass.
Aug., 1935	.069	.26	.18	.43	.15	.19	3.3	40.7	2.00	Grass, brown.		
Zulfelspruit, P.O. Hectorspruit	Barberton.....	Jan., 1934	.13	.34	.30	2.51	.25	.75	8.5	38.2	5.53	Grass and bush; mostly grass.
		April, 1934	.11	.49	.23	1.99	.63	.80	6.1	35.8	5.04	Grass and bush; mostly grass.
		June, 1934	.11	.78	.53	1.51	.06	.34	8.4	32.0	4.81	Grass and bush.
		Sept., 1934	.031	.48	.11	.13	.03	.05	2.5	40.8	1.82	Grass, brown, long.
		Dec., 1934	.12	.50	.21	1.64	.12	.53	7.5	35.9	3.78	Grass, mainly green and bush; mostly grass.
Mar., 1935	.084	.57	.29	.56	.09	.13	.52	40.6	2.53	Grass and bush; mostly grass.		
June, 1935	.037	.34	.20	.26	.04	.11	3.2	38.9	1.77	Grass, mainly brown.		
Sept., 1935	.048	.23	.18	.30	.13	.31	2.9	42.3	1.65	Grass, brown, long.		
Richtershoek P.O. Hectorspruit	Barberton.....	Feb., 1934	.32	.31	.17	2.46	.17	.46	7.2	38.7	5.07	Grass, mainly green.
		May, 1934	.15	.63	.33	1.10	.04	.25	9.7	32.2	3.71	Grass, mainly green and bush.
		Aug., 1934	.073	.27	.21	.86	.13	.38	4.4	42.8	2.50	Grass, mainly brown, long.
		Oct., 1934	.24	.75	.28	1.44	.13	.06	10.3	32.3	5.02	Grass and bush.
		Jan., 1935	.13	.38	.20	2.63	.19	1.08	9.6	37.8	5.32	Grass, green.
		April, 1935	.054	.31	.14	.91	.15	.37	4.1	40.4	2.85	Grass, mainly green, long.
		July, 1935	.049	.22	.10	.23	.02	.09	3.0	45.5	1.26	Grass, brown, long.
		Oct., 1935	.084	.29	.09	.18	.04	.04	2.7	39.3	1.33	Grass, brown, long.
		Dec., 1933	.079	.31	.18	1.05	.08	.38	6.7	40.1	2.69	Grass, mainly green, long.
		June, 1934	.087	.36	.23	1.40	.16	.47	4.9	38.7	3.50	Grass, mainly green, long.
Sept., 1934	.029	.15	.10	.11	.06	.05	2.4	39.0	1.01	Grass, brown, long.		
Dec., 1934	.039	.26	.07	.82	.12	.15	5.3	38.2	2.24	Grass, long.		
July, 1935	.082	.36	.27	.89	.11	.32	4.1	42.7	2.36	Grass mainly brown.		
Sept., 1935	.047	.28	.20	.51	.17	.42	3.8	41.8	2.01	Grass, brown, long.		

## AREA 9 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Mauricedale, P.O. Hectorspruit	Barberton.....	Jan., 1934	—	.18	.15	1.19	.48	—	6.3	42.2	2.95	Grass, mainly green, long. Grass, mainly brown. Grass, long and bush; mostly grass. Grass, brown, long.
		Aug., 1934	.056	.29	.16	.48	.14	.23	4.3	37.5	1.81	
		Nov., 1934	.12	.72	.21	1.13	.06	.27	8.6	33.3	3.67	
		Oct., 1935	.047	.17	.08	.25	.05	.04	3.3	39.4	1.24	
Thankerton, No. 268 Hectorspruit	Barberton.....	Feb., 1934	.10	.23	.16	1.49	.49	.70	6.4	32.4	3.93	Grass, mainly green. Grass, long. Grass, brown, long. Grass, long. Grass, long.
		July, 1934	.074	.25	.24	1.03	.20	.06	5.5	38.0	2.85	
		Oct., 1934	.071	.40	.23	.26	.11	.09	3.5	35.6	2.10	
		June, 1935	.058	.30	.22	.44	.13	.41	3.9	35.1	2.52	
		Dec., 1933	.26	.51	.38	3.35	1.02	1.34	11.6	33.8	9.00	
Figtree.....	Barberton.....	Oct., 1934	.082	.25	.35	.57	.40	.28	6.6	39.8	2.74	Grass, mainly brown, long. Grass, mainly green, long. Grass, green, leafy. Grass. Grass.
		Dec., 1934	.15	.32	.14	1.17	.25	.47	6.0	37.0	3.28	
		Jan., 1935	.17	.31	.23	1.73	.31	.62	9.3	34.7	4.00	
		April, 1935	.15	.30	.22	.92	.34	.35	5.3	37.6	3.15	
		April, 1934	.25	.33	.29	.80	1.06	.65	7.2	37.8	3.59	
Squamans.....	Barberton.....	Nov., 1934	.056	.24	.11	.21	.02	.07	3.0	40.3	1.21	Grass, brown. Grass, mainly green. Grass, mainly brown, leafy. Grass.
		Feb., 1935	.14	.25	.12	1.30	.07	.33	4.8	36.2	2.77	
		May, 1935	.11	.27	.12	.73	.08	.18	4.4	36.3	2.26	
		Feb., 1934	.22	.38	.31	1.88	.69	1.11	7.8	33.9	5.74	
Coopersdal.....	Barberton.....	July, 1934	.062	.53	.15	.11	.05	.06	4.8	38.1	2.38	Grass, short. Grass, brown.

## AREA 10.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Leeuwdraai, P.O. Mokeetsi	Letaba.....	Jan., 1934	—	.50	.23	2.36	.16	—	5.9	41.4	5.91	Grass.
		April, 1934	.074	.33	.19	1.26	.04	.37	4.8	34.8	3.10	Grass and bush; mostly grass.
		July, 1934	.077	.42	.13	.62	.06	.17	3.6	39.4	2.14	Grass, brown.
		Nov., 1934	.044	.21	.10	.32	trace	.11	2.6	40.3	1.48	Grass, brown, long.
		April, 1935	.086	.29	.16	1.15	.02	.34	4.1	35.3	2.51	Grass, mainly green, long.
		Aug., 1935	.090	.44	.18	.38	.06	.36	2.4	36.3	2.00	Grass, brown.
		Nov., 1933	.14	.47	.18	1.25	.05	.30	7.7	36.3	3.46	Grass, mainly brown, and bush.
		Feb., 1934	.16	.24	.20	1.78	.05	.44	6.4	36.6	3.63	Grass, mainly green.
May, 1934	.28	.41	.21	1.24	.07	.36	5.6	35.4	3.74	Grass, leafy and bush; mostly grass.		
Minden, P.O. Rubbervale	Letaba.....	Sept., 1934	.054	.36	.21	.22	.03	.07	3.2	38.5	1.64	Grass, mainly brown.
		Mar., 1935	.14	.30	.31	1.19	.05	.25	4.8	35.1	2.85	Grass, mainly green, leafy.
		June, 1935	.15	.38	.20	1.05	.03	.25	4.6	35.5	2.85	Grass, mainly brown, leafy.
		Sept., 1935	.22	.42	.15	.70	.05	.21	3.9	39.8	2.62	Grass, brown, leafy.
		Dec., 1933	.11	.28	.13	1.70	.24	.52	8.4	32.6	3.77	Grass, green.
		Mar., 1934	.14	.39	.21	1.73	.08	.42	5.2	38.5	4.00	Grass, mainly green.
		June, 1934	.27	.46	.20	.77	.14	.26	4.3	35.2	3.20	Grass.
		Oct., 1934	.15	.32	.12	.27	.02	.03	2.7	38.7	1.72	Grass, brown.
Nasionaal, P.O. Rubbervale	Letaba.....	Nov., 1934	.26	.40	.26	2.45	.09	.76	15.2	27.9	5.37	Grass, green, leafy.
		April, 1935	.12	.35	.30	1.35	.13	.52	5.8	33.7	3.37	Grass, mainly green.
		July, 1935	.10	.29	.20	.56	.02	.18	2.2	39.9	2.08	Grass, brown.
		Oct., 1935	.10	.33	.23	.51	.06	.17	5.1	38.0	2.54	Grass, mainly brown.
		Jan., 1934	.22	.25	.23	1.89	.05	.37	6.5	36.0	4.04	Grass, mainly green.
		April, 1934	.062	.35	.22	.67	.04	.18	3.9	33.9	2.06	Grass, leafy.
		July, 1934	.22	.55	.18	.70	.04	.16	4.2	36.5	2.85	Grass, mainly brown, and bush; mostly grass.
		Aug., 1934	.22	.49	.28	.85	.05	.28	4.9	37.3	3.32	Grass, mainly brown, and bush; mostly grass.
Toul, P.O. Rubbervale	Letaba.....	Jan., 1935	.30	.35	.26	1.80	.04	.38	5.9	34.7	4.16	Grass, mainly green.
		Feb., 1935	.26	.43	.25	1.84	.06	.46	7.4	35.4	4.36	Grass, green, leafy.
		May, 1935	.061	.39	.19	.45	.07	.12	4.2	35.6	1.95	Grass, leafy.
		Aug., 1935	.23	.61	.24	.70	.04	.17	4.9	37.2	3.13	Grass, brown.
		Nov., 1933	.053	.22	.09	.30	.05	.12	2.8	39.2	1.46	Grass, mainly brown.
		Feb., 1934	.083	.25	.15	1.33	.41	.53	6.8	38.5	3.29	Grass, mainly green.
		June, 1934	.049	.26	.12	.61	.03	.15	3.4	38.5	1.61	Grass, mainly brown.
		Sept., 1934	.091	.22	.14	.36	.09	.15	2.9	40.6	1.64	Grass, brown, long.
Homo Lends	Letaba.....	Dec., 1934	.089	.16	.13	.52	.15	.23	9.3	38.8	1.75	Grass, long.
		Mar., 1935	.14	.18	.12	.68	.09	.23	3.8	40.8	1.85	Grass, mainly brown, long.
		June, 1935	.13	.23	.09	.45	trace	.12	2.0	45.1	1.60	Grass, brown, long.
		Sept., 1935	.086	.20	.11	.61	.02	.20	1.8	42.3	1.69	Grass, brown, long.



FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
MSimkulu Crown Lands	Letaba.....	Dec., 1933	.14	.31	.20	2.47	.53	.66	11.1	36.3	5.64	Grass, green, and bush; mostly grass.	
		April, 1934	.14	.27	.25	1.61	.20	.56	8.2	37.0	3.85	Grass.	
		July, 1934	.041	.23	.13	.66	.15	.32	.44	3.7	38.4	2.10	Grass, brown, leafy.
		Nov., 1934	.088	.75	.13	1.00	.35	.44	.37	5.3	37.8	2.65	Grass, leafy.
		Feb., 1935	.083	.20	.14	.89	.06	.28	.46	4.6	43.3	2.15	Grass, mainly green.
		May, 1935	.062	.21	.06	.40	.02	.08	.30	3.0	38.6	1.33	Grass, mainly brown, long.
		Aug., 1935	.056	.21	.07	.25	.01	.07	.22	2.2	40.0	1.27	Grass, brown, long.
		Jan., 1934	.12	.31	.26	2.00	.60	.59	.42	6.7	34.6	4.76	Grass, mainly green.
May, 1934	.073	.35	.21	1.12	.55	.42	.11	4.4	35.2	3.43	Grass, mainly green, leafy.		
Aug., 1934	.046	.38	.17	.39	.02	.11	.02	2.4	39.3	1.83	Grass, mainly brown, leafy.		
Oct., 1934	.053	.28	.10	.26	.02	.05	.22	2.2	41.9	1.43	Grass, brown, leafy.		
Jan., 1935	.089	.23	.09	.60	.02	.22	.02	3.2	38.3	1.72	Grass, mainly brown.		
April, 1935	.075	.20	.10	.61	trace	.22	.30	3.0	38.1	1.56	Grass, brown, leafy.		
July, 1935	.092	.11	.08	.24	.02	.10	.02	1.5	51.6	1.07	Grass, brown, long.		
Moofontein No. 442	Letaba.....	Nov., 1933	.25	.40	.40	3.15	.77	1.01	17.9	28.8	8.74	Grass, green, leafy.	
		Feb., 1934	.12	.22	.18	1.42	.14	.35	6.0	40.3	3.05	Grass, mainly green.	
		May, 1934	.075	.96	.23	.78	.05	.27	7.3	33.2	3.92	Grass, mainly green.	
		Aug., 1934	.11	1.32	.27	.60	.04	.20	6.2	6.2	34.7	4.60	Grass, brown, leafy, cut bush; mostly grass.
		Nov., 1934	.10	.72	.22	.38	.02	.12	7.0	33.7	3.50	Grass, brown, and bush.	
		Feb., 1935	.17	.34	.25	2.39	.15	.69	9.1	38.7	4.80	Grass, green.	
		Aug., 1935	.087	1.11	.20	.83	.03	.20	4.9	34.3	6.45	Grass, brown, and bush.	
		Dec., 1933	.26	.39	.35	3.90	.37	.86	14.5	31.6	7.69	Grass, green, leafy.	
Mar., 1934	.25	.47	.35	2.15	.07	.63	6.8	36.2	5.40	Grass, mainly green.			
Sept., 1934	.069	.22	.20	1.11	.05	.12	4.2	39.6	2.85	Grass, brown.			
Dec., 1934	.18	.34	.18	1.82	.07	.57	7.9	31.6	3.63	Grass, long.			
Mar., 1935	.12	.90	.29	1.16	.04	.13	7.9	31.6	4.23	Grass, mainly green, and bush.			
June, 1935	.13	.99	.27	1.34	.28	.58	8.3	33.5	5.53	Grass, mainly green, and bush.			
Sept., 1935	.052	.67	.20	.35	.02	.18	2.4	38.2	2.70	Grass, brown, leafy.			
Bronkhorstfontein	Letaba.....	Jan., 1934	.14	.27	.21	2.89	.06	.48	6.5	39.7	—	Grass.	
		April, 1934	.14	.38	.21	1.30	.07	.35	5.3	37.8	3.45	Grass.	
		July, 1934	.12	1.44	.13	1.15	.03	.43	7.6	34.3	5.56	Grass, mainly brown, and bush.	
		Oct., 1934	.12	.43	.13	.90	.10	.31	7.7	34.9	4.13	Grass, brown, and bush.	
		April, 1935	.095	.66	.16	1.17	.03	.22	7.3	30.7	3.45	Grass at 0 bush; mostly grass	
		July, 1935	.11	.54	.24	1.40	.08	.35	6.0	35.7	4.12	Grass and bush.	
		Oct., 1935	.10	.74	.23	.74	.02	.11	7.6	33.9	3.89	Grass, brown, and bush; mostly grass.	

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Breakfast No. 1190	Letaba.....	Nov., 1933	.21	.64	.24	2.47	.10	.43	17.7	31.3	6.28	Grass and bush.
		Feb., 1934	.12	.42	.34	2.91	.41	.36	10.9	33.3	7.50	Grass, mainly green, and bush ; mostly grass.
		Aug., 1934 Feb., 1935	.067 .12	.66 .58	.22 .19	.59 1.69	.12 .15	.27 .37	5.6 9.2	36.8 35.1	2.99 4.13	Grass, mainly brown, and bush. Grass, green, and bush ; mostly grass.
Carthage No. 2018	Letaba.....	Dec., 1933	.23	.74	.42	3.52	.06	.56	9.4	32.6	9.03	Grass and bush.
		Mar., 1934	.15	.98	.26	1.23	.20	.47	6.5	36.7	4.81	Grass and bush.
		May, 1934	.062	.44	.31	2.15	.29	.26	7.6	31.5	5.13	Grass, leafy, and bush ; mostly grass.
Sedali Ranch No. 300	Letaba.....	Sept., 1934	.089	.33	.21	.70	.10	.27	8.6	37.6	2.22	Grass, mainly brown, and bush ; mostly grass.
		Jan., 1934	—	.53	.26	1.88	.07	—	7.8	34.1	4.58	Grass and bush ; mostly grass.
		April, 1934 April, 1935	.19 .093	1.42 .64	.60 .25	4.45 1.57	.15 .24	.44 .49	16.7 5.8	26.3 37.6	11.08 4.45	Grass, leafy, and bush. Grass.
Schmaalhans No. 2061	Letaba.....	Nov., 1933	.13	.35	.17	1.80	.05	.55	10.5	36.7	4.42	Grass, mainly green, and bush ; mostly grass.
		Feb., 1934	.18	.23	.12	1.78	.05	.35	7.8	37.6	3.35	Grass, mainly green.
		May, 1934	.18	.31	.15	1.65	.06	.40	5.8	36.3	3.66	Grass.
Sedan No. 157...	Letaba.....	Nov., 1933	.22	.79	.25	2.86	.08	.47	16.0	22.8	7.02	Grass, mainly green, and bush.
		Mar., 1934	.16	.28	.16	1.93	.04	.45	7.3	37.7	3.68	Grass, green.
Murlebrook.....	Letaba.....	Dec., 1933	.14	.35	.17	1.62	.04	.35	8.8	34.0	3.71	Grass, mainly green.
		April, 1934	.16	.42	.19	2.08	.05	.43	7.9	30.6	4.51	Grass, short, and bush ; mostly grass.
Mashutti No. 2324	Letaba.....	Dec., 1933	.15	.24	.15	1.68	.03	.42	7.7	39.1	4.20	Grass.
		Mar., 1934	.078	.30	.15	.93	.02	.12	7.0	39.5	2.64	—
		June, 1934	.10	.30	.15	1.53	.04	.34	6.5	35.4	3.61	Grass, leafy.
		Sept., 1934	.044	.29	.08	.28	.01	.06	4.4	38.8	1.77	Grass, brown.
		Dec., 1934	.08	.19	.09	.87	trace	.22	5.9	41.9	1.98	Grass, long.
		Sept., 1935	.076	.28	.14	1.09	.02	.45	5.4	37.1	2.75	Grass, brown.
		Jan., 1934	.14	.25	.16	1.65	.02	.42	9.2	34.5	4.29	Grass.
Rooihoogte No. 2308	Letaba.....	April, 1934	.092	.26	.16	1.69	.03	.36	6.8	39.1	3.63	Grass.
		July, 1934	.12	.44	.21	1.64	.02	.34	4.8	38.1	3.33	Grass.
		Oct., 1934	.035	.22	.06	.04	.02	.02	1.8	41.3	0.92	Grass, brown, long.
		April, 1935	.13	.38	.19	1.30	.02	.38	6.7	36.5	3.05	Grass, mainly green, leafy.
Broedersdriif No. 1932	Letaba.....	Feb., 1934	.14	.28	.15	2.09	.03	.42	8.2	38.9	3.96	Grass, mainly green, long.
		May, 1934	.10	.32	.17	1.47	.04	.36	5.7	39.5	2.91	Grass, mainly green, long.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Dusseldorp.....	Letaaba.....	Nov., 1933	.37	.27	.24	3.71	.20	.65	10.7	33.8	7.23	Grass.
		Aug., 1934	.12	.27	.20	1.10	.11	.58	4.2	36.3	3.02	Grass, mainly brown.
		Nov., 1934 Feb., 1935	.14 .17	.37 .37	.15 .14	1.43 1.79	.06 .06	.41 .35	5.8 6.1	35.3 35.0	3.32 3.72	Grass, mainly brown. Grass, green, leafy.
Pretoria Farm No. 158	Letaaba.....	Dec., 1933	.20	.25	.14	1.75	.07	.51	7.9	39.2	4.53	Grass, green.
		July, 1934	.089	.29	.12	.89	.02	.33	4.5	37.7	2.22	Grass, mainly brown.
		Oct., 1934 Jan., 1935	.11 .15	.38 .27	.26 .31	.56 2.15	.17 .09	.17 .79	5.4 5.6	34.4 32.7	3.60 4.57	Grass, mainly brown, short. Grass, mainly green, short.
The Downs No. 508	Letaaba.....	Jan., 1934	.17	.29	.19	1.52	.03	.33	8.6	40.3	3.62	Grass, mainly green.
		Sept., 1934	.045	.30	.42	.23	.06	.17	3.4	36.9	2.08	Grass, brown.
		Dec., 1934 Mar., 1935	.12 .10	.23 .29	.17 .17	1.42 1.12	.04 .03	.51 .35	11.3 4.7	37.0 36.8	3.08 3.02	Grass, green, leafy. Grass, leafy.
Strangersrest.....	Letaaba.....	Jan., 1934	.15	.26	.17	2.00	.03	.51	7.2	39.9	3.85	Grass, mainly green.
		April, 1934	.14	.50	.15	1.73	trace	.45	5.9	35.7	3.78	Grass, mainly green.
		Dec., 1934 Mar., 1935	.31 .14	.34 .39	.23 .24	2.50 1.85	.15 .06	.50 .45	8.9 6.6	37.0 33.4	5.66 3.90	Grass, green, leafy. Grass, mainly green.
Bontfontein No.48	Letaaba.....	April, 1934	.081	.37	.15	.63	.05	.16	5.9	33.7	2.19	Grass.
		June, 1934	.095	.37	.14	.55	.02	.14	4.0	33.9	1.83	Grass, mainly brown, leafy.
		Oct., 1934	.065	.30	.09	.22	.03	.04	3.4	36.1	1.47	Grass, brown, leafy.
Modjadjes Location	Letaaba.....	Nov., 1933	.51	.44	.11	.67	.01	.62	17.0	28.2	9.50	Grass, green.
		Mar., 1934	.17	.33	.16	2.34	.16	.66	6.9	36.3	4.92	Grass, mainly green.
		Sept., 1934	.11	1.20	.27	.63	.07	.20	7.8	33.4	4.80	Grass, brown, and bush.
Mamitwa's Location	Letaaba.....	Dec., 1933	.23	.85	.32	3.18	.16	.76	16.2	32.4	8.08	Grass, mainly green, and bush.
		July, 1934	.22	.55	.20	1.11	.07	.20	5.5	33.7	3.50	Grass, mainly brown, and bush; mostly grass.
Mogogonic Dip Area	Letaaba.....	May, 1934	.21	.31	.30	1.81	.35	.60	8.5	35.7	5.28	Grass, mainly green.
		Aug., 1934	.12	.71	.22	.82	.04	.14	6.4	33.7	3.21	Grass, mainly brown, and bush.
Eiland No. 1134. P.O. Rubbervale	Letaaba.....	Nov., 1933	.19	.52	.17	1.27	.14	.31	9.3	35.0	4.16	Grass, mainly brown, and bush.
		Feb., 1934	.17	.39	.19	2.78	.07	.45	8.0	41.0	4.72	Grass and bush; mostly grass.

AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.			
Boekenhoutbult, P.O. Mokeetsi	Letaba.....	Nov., 1933	.45	.78	.29	2.92	.23	.48	18.5	24.7	8.42	Grass and bush ; mostly bush. Grass, mainly green. Grass, mainly green, and bush ; mostly grass. Grass, mainly brown, leafy. Grass, brown, leafy. Grass, green, leafy. Grass and bush ; mostly grass. Grass. Grass, brown, leafy.			
		Feb., 1934	.11	.21	.15	1.78	.19	.32	5.0	38.2	3.47				
		May, 1934	.10	.49	.29	1.96	.14	.32	6.4	35.7	4.92				
		Aug., 1934	.069	.44	.16	.81	.02	.09	2.9	39.7	2.37				
		Oct., 1934	.091	.32	.18	.45	.04	.08	4.5	39.7	2.05				
		Feb., 1935	.25	.36	.22	2.27	.07	.43	7.4	36.0	4.31				
		May, 1935	.12	.44	.20	1.08	.10	.24	6.2	37.6	2.95				
		July, 1935	.15	.36	.25	1.18	.19	.08	4.7	42.5	3.64				
		Oct., 1935	.06	.22	.09	.28	trace	.04	3.1	34.0	1.39				
Zwartkoppies, P.O. Duivels- kloof	Letaba.....	Dec., 1933	.31	.31	.21	2.39	.12	.41	12.1	32.4	5.41	Grass, green, and bush ; mostly grass. Grass, mainly green, and bush ; mostly grass. Grass, brown. Grass, green, leafy. Grass, mainly green. Grass, brown, and bush ; mostly grass. Grass, brown.			
		Mar., 1934	.22	.52	.23	1.45	.09	.46	6.0	33.9	4.34				
		Sept., 1934	.10	.31	.20	.60	.06	.15	3.0	39.2	2.30				
		Dec., 1934	.23	.35	.32	3.42	.11	.94	13.6	33.3	6.68				
		Mar., 1935	.17	.33	.25	2.37	.09	.63	7.0	35.6	4.71				
		June, 1935	.13	.58	.20	.70	.03	.19	4.6	39.0	2.88				
		Sept., 1935	.048	.29	.14	.58	.14	.24	3.9	36.3	2.30				
Macheka Location (Klein Letaba)	Zoutpansberg ..	Nov., 1933	.30	1.00	.27	2.38	.23	.65	17.0	25.5	6.98	Grass and bush. Grass, mainly green. Grass, short. Grass, mainly brown, short. Grass, brown. Grass, mainly green. Grass, mainly brown. Grass, brown, long. Grass, brown.			
		Feb., 1934	.20	.34	.16	1.77	.22	.48	6.3	40.3	3.74				
		May, 1934	.13	.40	.19	1.25	.05	.13	4.9	37.2	3.51				
		Aug., 1934	.065	.34	.21	.54	.10	.26	2.8	39.4	2.18				
		Nov., 1934	.058	.43	.14	.28	trace	.06	3.6	39.8	2.31				
		Feb., 1935	.15	.32	.14	1.20	.07	.37	4.7	38.4	2.96				
		May, 1935	.098	.46	.22	.68	.03	.17	3.2	35.2	2.40				
		Aug., 1935	.093	.25	.15	.80	.06	.38	1.8	43.0	2.04				
Malleppe Location (Klein Letaba)	Zoutpansberg ..	Jan., 1934	.19	.30	.24	2.97	.09	.71	7.5	37.0	6.60	Grass, mainly green. Grass, short. Grass. Grass, brown. Grass, mainly brown, long Grass, mainly green, leafy. Grass, brown, long. Grass, brown, long.			
		Mar., 1934	.26	.42	.31	2.51	.15	.59	10.7	34.4	5.92				
		June, 1934	.053	.32	.29	.79	.01	.19	3.3	40.2	2.85				
		Sept., 1934	.043	.42	.20	.32	.03	.07	3.9	40.2	2.06				
		Dec., 1934	.082	.22	.22	.97	.17	.38	5.8	41.4	2.65				
		Mar., 1935	.14	.78	.19	1.25	.39	.80	8.2	31.1	4.96				
		June, 1935	.077	.32	.25	1.00	.04	.48	5.4	36.7	3.40				
		Sept., 1935	.11	.39	.21	.45	.27	.62	3.3	44.5	2.83				

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Nkume Location (Kicin Letaba)	Zoutpansberg..	Jan., 1934	.19	.60	.24	1.81	.25	.50	9.7	36.7	5.30	Grass, mainly green, and bush; mostly grass.
		April, 1934	.22	.46	.26	2.16	.12	.47	6.4	35.7	5.46	Grass, short.
		July, 1934	.22	.61	.23	1.34	.23	.51	5.4	38.9	4.09	Grass, mainly brown, and bush; mostly grass.
		Oct., 1934	.067	.39	.19	.34	.03	.06	3.9	36.8	3.65	Grass, brown.
		Jan., 1935	.13	.32	.49	1.85	.23	.74	9.5	31.1	4.62	Grass, green, short.
		April, 1935	.079	.42	.26	1.49	.15	.48	5.7	34.0	4.07	Grass.
		July, 1935	.10	1.00	.31	1.17	.06	.29	6.7	40.8	6.06	Grass, brown, and bush.
		Oct., 1935	.086	.63	.22	.53	.11	.14	4.4	41.3	3.46	Bush.
		Nov., 1933	.19	.77	.22	3.73	.08	.43	10.1	32.1	5.94	Grass and bush.
		Feb., 1934	.17	.34	.31	2.08	.16	.50	7.0	33.7	6.66	Grass.
Kranspoort No. 1000	Zoutpansberg..	May, 1934	.12	.35	.26	1.34	.24	.59	7.1	33.0	3.56	Grass, short.
		Dec., 1933	.14	.40	.17	1.86	.10	.49	7.0	33.1	4.67	Grass.
Claudshoop No. 22	Zoutpansberg..	Mar., 1934	.071	.34	.15	.99	.03	.22	5.3	35.6	2.56	Grass, mainly brown, short.
		Jan., 1934	.13	.23	.15	1.65	.02	.38	9.3	36.8	3.43	Grass and bush.
Altenburg.....	Zoutpansberg..	April, 1934	.086	.53	.17	1.50	.14	.34	8.7	27.8	3.58	Grass, short and bush; mostly grass.
		Nov., 1933	.22	.97	.34	2.74	.11	.38	16.1	27.0	7.56	Grass, mainly green, and bush.
Riversdale No. 633	Zoutpansberg..	Feb., 1934	.087	.61	.15	1.64	.02	.45	6.6	30.3	4.25	Grass and bush; mostly grass.
		May, 1934	.065	.25	.08	.70	.02	.16	4.6	37.1	1.94	Grass, brown, short.
		Aug., 1934	.059	.20	.08	.81	.01	.14	4.3	37.1	1.83	Grass, brown.
		Nov., 1934	.031	.16	.05	.31	.03	.08	3.2	37.5	1.30	Grass, brown.
		Dec., 1933	.19	.65	.30	1.92	.08	.54	7.9	36.0	5.80	Grass, mainly green, and bush; mostly grass.
Comformis No. 507	Zoutpansberg..	Mar., 1934	.11	.72	.33	2.18	.03	.46	8.2	32.7	5.88	Grass.
		June, 1934	.048	.15	.11	.81	.02	.21	4.3	40.7	1.85	Grass, brown, long.
		Sept., 1934	.050	.14	.07	.67	.02	.12	4.4	39.1	1.35	Grass, brown, long.
Corea No. 663.....	Zoutpansberg..	Jan., 1934	.22	.28	.15	1.24	.03	.29	10.5	32.2	3.07	Grass, mainly green, and bush; mostly grass.
		April, 1934	.11	.43	.18	1.64	.14	.80	4.3	35.3	3.62	Grass, mainly brown, and bush.
		July, 1934	.095	.22	.10	.65	.02	.08	2.7	38.8	1.79	Grass, brown, and bush; mostly grass.
		Oct., 1934	.052	.38	.09	.31	.02	.05	2.8	35.4	1.80	Grass, brown.
		Jan., 1935	.042	.21	.06	.29	trace	.08	2.9	41.0	1.40	Grass, brown.

## AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Tshiombo (portion Sibasa Location)	Zoutpansberg ..	Nov., 1933	.14	.51	.28	1.20	.31	.17	10.8	32.2	4.00	Grass, mainly green, and bush.
		Feb., 1934	.15	.47	.30	2.13	.10	.51	18.8	35.7	5.26	Grass and bush.
		May, 1934	.11	.55	.31	1.56	.15	.37	11.0	31.9	4.64	Grass and bush.
		Aug., 1934	.18	.76	.29	.85	.11	.29	7.4	39.0	3.69	Grass, mainly brown, and bush.
		Nov., 1934	.12	.49	.29	1.74	.15	.55	9.6	35.7	4.58	Grass, long, and bush; mostly grass.
		Feb., 1935	.20	.57	.38	2.44	.26	.65	13.3	33.9	6.24	Grass, mainly green, and bush.
		May, 1935	.18	.54	.32	1.91	.08	.34	17.0	29.4	4.94	Grass and bush; mostly bush.
		Dec., 1933	.27	.68	.28	2.41	.28	.52	13.9	28.2	6.80	Grass, mainly green, and bush; mostly grass.
		Mar., 1934	.14	.56	.28	1.79	.11	.38	9.7	35.3	5.04	Grass and bush.
		Sept., 1934	.095	.54	.29	.67	.16	.27	7.2	34.4	2.75	Grass and bush.
Kalaba (Portion Sibasa Location)	Zoutpansberg ..	Dec., 1934	.23	.43	.23	4.03	.11	1.08	15.7	—	7.54	Grass, mainly green, leafy, and bush.
		Mar., 1935	.14	.70	.37	2.15	.11	.57	8.6	38.0	5.64	Grass and bush; mostly grass.
		June, 1935	.16	.74	.39	1.89	.04	1.17	11.4	31.1	5.48	Grass, green, leafy, and bush; mostly grass.
		Sept., 1935	.074	.64	.25	.53	.08	.22	6.3	34.0	3.10	Grass, brown, and bush.
		Jan., 1934	.25	.23	.21	1.67	.50	.71	6.1	40.6	4.77	Grass, long.
		April, 1934	.13	.68	.30	1.30	.16	.37	9.2	36.5	4.13	Grass and bush.
		July, 1934	.10	1.06	.30	1.03	.10	.25	8.1	32.5	4.69	Grass, mainly brown, and bush.
		Oct., 1934	.10	.56	.17	.39	.17	.23	5.5	37.6	—	Grass, mainly brown, and bush.
		April, 1935	.17	.43	.23	1.57	.15	.10	7.0	31.3	4.50	Grass, mainly green.
		Oct., 1935	.14	.51	.27	1.69	.06	.54	10.4	38.1	4.62	Grass, green, and bush; mostly grass.
Driefontein No. 110	Zoutpansberg ..	Nov., 1933	.21	.34	.18	2.38	.17	.61	11.3	35.2	5.12	Grass, mainly green.
		May, 1934	.16	.36	.20	1.53	.04	.35	5.1	40.4	3.39	Grass.
		Aug., 1934	.084	.28	.17	.63	trace	.13	3.1	39.9	1.96	Grass, brown, long.
		Nov., 1934	.16	.27	.13	1.12	trace	.57	5.3	40.2	2.73	Grass, long.
		Feb., 1935	.17	.28	.16	1.85	.04	.58	6.0	38.0	3.63	Grass, green, long.
		Dec., 1933	.25	.25	.17	2.27	.07	.41	8.7	38.5	4.38	Grass, green.
		Mar., 1934	.21	.24	.18	1.40	.05	.35	4.1	38.1	3.10	Grass, mainly green.
		June, 1934	.12	.32	.13	1.34	trace	.17	4.2	36.8	2.13	Grass, mainly brown.
		Sept., 1934	.093	.16	.11	.33	.02	.11	4.7	40.6	1.49	Grass, brown, long.
		Dec., 1934	.10	.23	.12	.89	.03	.22	5.6	38.9	2.20	Grass, mainly green, long.
Gevonden No. 216	Zoutpansberg ..	Jan., 1934	.27	.22	.20	1.99	.08	.43	6.2	37.7	4.37	Grass, mainly green.
		April, 1934	.15	.25	.14	1.70	.06	.14	5.4	38.4	3.72	Grass.
		July, 1934	.092	.36	.13	.40	.04	.12	2.8	37.1	1.70	Grass, brown.
		Oct., 1934	.10	.28	.12	.37	.03	.08	2.9	39.0	1.75	Grass, mainly brown, long.
		Jan., 1935	.12	.25	.14	1.08	.08	.40	5.6	37.3	2.45	Grass, mainly green, long.
Doornspruit No. 199	Zoutpansberg ..	Jan., 1934	.27	.22	.20	1.99	.08	.43	6.2	37.7	4.37	Grass, mainly green.
		April, 1934	.15	.25	.14	1.70	.06	.14	5.4	38.4	3.72	Grass.
		July, 1934	.092	.36	.13	.40	.04	.12	2.8	37.1	1.70	Grass, brown.
		Oct., 1934	.10	.28	.12	.37	.03	.08	2.9	39.0	1.75	Grass, mainly brown, long.
		Jan., 1935	.12	.25	.14	1.08	.08	.40	5.6	37.3	2.45	Grass, mainly green, long.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Pepecti (Sibasa)...	Zoutpansberg..	Nov., 1933	.22	.72	.30	1.62	.08	.20	15.9	22.7	5.53	Bush.	
		Feb., 1934	.14	.49	.30	1.76	.16	.51	10.2	34.1	4.56	Grass and bush; mostly grass.	
		Aug., 1934	.048	.61	.32	.39	.01	.09	.09	3.5	43.7	2.43	Grass, brown, long, and bush; mostly grass.
		Jan., 1935	.18	.31	.20	2.70	.09	.79	.09	8.8	34.3	4.86	Grass, green, long.
		April, 1935	.14	.44	.29	1.60	trace	.32	.32	8.3	39.6	3.73	Grass and bush; mostly grass.
		July, 1935	.076	.62	.22	.82	.03	.25	.25	5.1	37.3	3.08	Grass, brown, long, and bush.
		Oct., 1935	.076	.50	.17	.73	.03	.11	.11	6.0	38.8	2.73	Grass, brown, long, and bush.
		Dec., 1933	.23	.53	.40	1.87	.18	.41	.41	9.8	33.8	5.50	Grass, mainly green.
		Oct., 1934	.091	.34	.11	.38	.01	.09	.09	3.2	42.2	1.86	Grass, brown, long.
		Feb., 1935	.13	.67	.34	2.29	.22	.61	.61	9.9	30.6	6.15	Grass and bush.
Natal House (Sibasa)	Zoutpansberg..	May, 1935	.14	.43	.15	.87	.07	.19	5.2	36.3	2.95	Grass, long, and bush.	
		Aug., 1935	.09	.83	.24	.81	.05	.21	6.7	34.3	3.41	Grass, mainly brown, and bush; mostly bush.	
		Jan., 1934	.16	.57	.31	2.41	.07	.40	.40	9.6	37.9	5.49	Grass, mainly green.
		April, 1934	.18	.41	.27	2.10	.09	.60	.60	7.8	36.1	4.90	Grass, mainly green.
		July, 1934	.11	1.34	.25	1.06	.04	.26	.26	10.5	29.1	4.85	Grass and bush; mostly bush.
Sterkstroom (Sibasa)	Zoutpansberg..	Mar., 1935	.077	.71	.12	.53	.02	.04	5.5	43.6	4.18	Grass, brown, short, and bush.	
		June, 1935	.088	.79	.21	.67	.02	.19	6.5	38.2	3.32	Grass, brown, long, and bush.	
		Nov., 1933	.31	.40	.28	2.71	.60	.77	.77	12.9	31.5	6.90	Grass, mainly green, short.
		Feb., 1934	.084	.26	.19	1.33	.36	.34	.34	5.2	36.6	3.19	Grass.
		May, 1934	.095	.31	.15	.65	.17	.28	.28	5.1	39.0	2.17	Grass.
Mampakuil No. 225	Zoutpansberg..	Aug., 1934	.082	.20	.07	.25	.08	.05	3.8	37.9	1.20	Grass, brown.	
		Nov., 1934	.079	.17	.07	.42	.04	.08	5.0	36.0	1.39	Grass, brown.	
		Feb., 1935	.18	.40	.20	2.27	.37	.75	.75	12.7	30.7	5.27	Grass, green, short.
		May, 1935	.15	.40	.14	1.11	.24	.46	.46	6.4	30.7	3.41	Grass, short.
		Aug., 1935	.08	.27	.11	.55	.06	.18	.18	6.1	31.2	2.46	Grass, brown, short.
		Jan., 1934	.13	.83	.39	2.12	.29	.77	.77	11.0	30.8	6.46	Grass, mainly green.
		Mar., 1934	.11	.56	.28	.94	trace	.15	.15	8.2	32.0	3.17	Grass and bush.
Rustgenoeg No. 42	Zoutpansberg..	Jun., 1934	.031	.16	.06	.21	.02	.03	3.3	39.1	0.98	Grass, brown, long.	
		Sept., 1934	.045	.23	.07	.26	.04	.05	4.3	38.3	1.29	Grass, brown, long.	
		Dec., 1934	.25	1.17	.44	2.38	.09	.29	.29	20.6	25.0	8.04	Bush.
		Mar., 1935	.17	.58	.54	1.65	.13	.35	.35	13.0	28.9	6.14	Grass, mainly green, leafy
		Feb., 1934	.20	.21	.16	1.91	.19	.56	.56	6.8	34.7	4.31	Grass, mainly green.
Eastlyme.....	Zoutpansberg..	April, 1934	.10	.22	.14	.88	.15	.38	4.2	40.7	2.18	Grass.	
		July, 1934	.16	.31	.10	.70	.09	.28	5.6	33.2	2.48	Grass, mainly brown, short.	
		Oct., 1934	.062	.33	.18	.19	.05	.04	.04	3.2	37.5	1.68	Grass, mainly brown.
		Jan., 1935	.11	.26	.16	1.01	.09	.41	.41	6.0	37.7	2.47	Grass, mainly green.
		April, 1935	.078	.21	.18	.72	.09	.18	.18	4.0	35.7	2.13	Grass, long.
		July, 1935	.058	.27	.16	.48	.07	.16	.16	3.3	38.5	2.06	Grass, brown.
		Oct., 1935	.056	.25	.10	.30	.05	.04	.04	3.0	40.9	1.60	Grass, brown, long.

## AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Reubander No. 59	Zoutpansberg..	Nov., 1933	.34	1.41	.31	3.30	.04	.47	13.9	23.1	8.30	Bush.	
		Feb., 1934	.18	.62	.30	3.61	.04	.51	12.7	31.8	8.08	Grass, green, and bush; mostly grass.	
		May, 1934	.12	.40	.32	1.85	.07	.57	.55	5.5	37.1	4.38	Grass.
		Aug., 1934	.11	.62	.28	.79	.05	.32	4.3	34.5	3.14	3.14	Grass, brown, and bush; mostly grass.
		Nov., 1934	.26	.88	.34	3.31	trace	1.11	18.0	28.5	7.21	7.21	Grass, green, and bush; mostly grass.
		Feb., 1935	.11	.28	.24	1.72	.05	.62	6.9	35.8	3.65	3.65	Grass, green.
		May, 1935	.17	.41	.26	2.53	.39	.09	8.7	31.8	5.47	5.47	Grass.
		Aug., 1935	.072	.55	.30	.81	.10	.35	4.4	39.0	2.94	2.94	Grass, brown.
		Dec., 1933	.32	.67	.31	3.35	.11	.70	12.0	33.7	7.85	7.85	Grass, green, and bush; mostly grass.
		Mar., 1934	.13	.46	.33	2.22	.04	.46	9.6	36.5	4.80	4.80	Grass, mainly green, and bush; mostly grass.
Palmoryville No. 665	Zoutpansberg..	June, 1934	.073	.52	.27	.82	.02	.13	5.0	39.5	2.90	Grass, mainly brown.	
		Sept., 1934	.05	.48	.27	.24	trace	.04	4.0	43.1	1.90	1.90	Grass, brown, long.
		Dec., 1934	.13	.35	.29	1.43	.06	.64	7.1	37.8	3.44	3.44	Grass, green, long.
		Mar., 1935	.10	.36	.27	1.45	.22	.51	6.1	33.2	3.60	3.60	Grass, mainly green, leafy.
		June, 1935	.13	.83	.34	1.05	.02	.29	8.2	32.6	4.10	4.10	Grass.
		Sept., 1935	.057	.74	.24	.64	.05	.28	4.3	34.5	3.45	3.45	Grass, brown, and bush.
		Jan., 1934	.16	1.01	.44	2.74	.09	.43	14.2	28.6	8.02	8.02	Grass, green, and bush.
		April, 1934	.12	.40	.28	2.08	.07	.47	9.2	36.8	4.69	4.69	Grass, long.
		July, 1934	.088	.55	.22	.87	.04	.20	5.3	39.1	2.97	2.97	Grass, mainly brown.
		Oct., 1934	.18	1.11	.31	1.52	.08	.45	13.3	28.7	5.42	5.42	Grass, mainly green, leafy, and bush; mostly bush.
Goedverwachting No. 111	Zoutpansberg..	Jan., 1935	.17	.43	.27	2.08	.09	.57	11.0	35.5	4.53	Grass, green, long.	
		April, 1935	.12	.65	.38	1.43	.05	.69	9.1	29.7	4.44	4.44	Grass, mainly green, leafy.
		July, 1935	.069	.43	.17	.55	.19	.39	4.6	40.7	2.50	2.50	Grass, mainly brown.
		Oct., 1935	.076	1.18	.21	.47	.03	.15	6.3	35.0	8.45	8.45	Grass, brown, and bush.
		Nov., 1933	.35	.44	.22	2.87	.26	.62	14.5	27.2	6.30	6.30	Grass, mainly green.
		Feb., 1934	.23	.25	.16	1.99	.23	.95	9.8	37.0	5.07	5.07	Grass, mainly green.
		May, 1934	.14	.35	.20	1.67	.30	1.24	6.7	34.0	4.48	4.48	Grass, mainly green.
		Aug., 1934	.15	.33	.13	.50	.01	.06	3.2	37.6	2.19	2.19	Grass, brown.
		Dec., 1934	.26	.35	.15	2.46	.33	1.32	13.8	31.3	6.50	6.50	Grass, green, leafy.
		Feb., 1935	.31	.36	.14	2.12	.33	.77	9.4	33.0	6.24	6.24	Grass, green, leafy.
Municipal Lands Trichardt	Zoutpansberg..	May, 1935	.12	.22	.11	.72	.03	.31	3.4	38.0	2.12	2.12	Grass, mainly brown.
		Aug., 1935	.13	.26	.10	.97	.03	.29	2.8	41.9	2.48	2.48	Grass, brown.



FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Garth No. 460...	Zoutpansberg..	Dec., 1933	.18	.34	.25	3.11	.51	1.73	9.8	27.9	7.53	Grass, green.
		Mar., 1934	.13	.34	.24	1.62	.24	.67	9.2	35.9	4.02	Grass, mainly green.
		June, 1934	.072	.26	.28	1.23	.26	.55	5.7	34.8	3.58	Grass.
		Sept., 1934	.06	.27	.22	1.4	.34	.34	5.9	35.7	2.28	Grass, brown.
		Dec., 1934	.12	.98	.41	1.67	.09	.16	15.9	26.0	6.87	Bush.
		Mar., 1935	.14	.33	.31	1.33	.44	.04	11.4	29.2	5.08	Grass, green, short.
		June, 1935	.17	.37	.21	1.18	.22	.39	11.3	28.2	3.63	Grass.
		Sept., 1935	.10	.86	.28	1.23	.34	.30	7.7	35.6	4.83	Grass, short, and bush.
		Jan., 1934	.22	.26	.13	2.54	.15	.71	11.0	40.2	5.26	Grass, green.
		April, 1934	.36	.24	.13	1.59	.06	.36	6.2	36.3	3.36	Grass, mainly green, short.
Verzameling van Waters, No. 119	Zoutpansberg..	July, 1934	.058	.27	.12	.40	.03	.16	3.4	36.9	1.60	Grass, mainly brown.
		Oct., 1934	.21	.30	.18	1.47	.14	.44	8.8	37.1	3.60	Grass, leafy.
		Jan., 1935	.13	.21	.19	1.16	.07	.73	6.7	36.9	2.63	Grass, green, leafy.
		April, 1935	.28	.31	.14	1.60	.11	.52	9.9	30.9	3.93	Grass, mainly green, leafy.
		July, 1935	.10	.32	.13	.68	.06	.26	3.7	43.8	2.07	Grass, mainly brown.
		Oct., 1935	.05	.18	.08	.32	.03	.09	4.0	38.5	1.31	Grass, brown, leafy.
		Nov., 1933	.25	.31	.28	1.96	.34	.50	11.0	33.8	4.78	Grass, green.
		Feb., 1934	.21	.24	.19	1.45	.04	.34	4.4	40.4	3.07	Grass.
		May, 1934	.32	.27	.16	1.07	.04	.23	4.9	39.7	3.42	Grass.
		Aug., 1934	.18	.23	.20	.51	.14	.15	2.6	42.6	2.16	Grass, brown, long.
Leasgevonden No. 74	Zoutpansberg..	Feb., 1935	.20	.23	.13	1.39	.05	.44	4.4	41.9	3.04	Grass, green, long.
		May, 1935	.15	.27	.16	.78	.04	.18	3.1	38.0	2.16	Grass, long.
		Aug., 1935	.15	.23	.14	.59	.05	.20	2.1	41.7	1.83	Grass, brown, long.
		Dec., 1933	.14	.24	.15	1.72	.19	.38	6.2	39.5	3.62	Grass, green.
		Mar., 1934	.13	.25	.18	1.25	.04	.28	4.4	38.4	2.81	Grass, mainly green.
		June, 1934	.24	.31	.23	.86	.15	.28	3.8	39.2	2.95	Grass, long.
		Sept., 1934	.15	.27	.23	.41	.19	.17	2.7	43.2	1.89	Grass, brown, long.
		Mar., 1935	.11	.75	.24	1.83	.08	.47	5.3	39.3	4.68	Grass, long, and bush; mostly grass.
		June, 1935	.088	.22	.11	.40	trace	.15	2.3	43.9	1.42	Grass, brown, long.
		Sept., 1935	.10	.25	.14	.66	.06	.26	2.0	41.6	2.55	Grass, brown, long.
Waltevrede.....	Zoutpansberg..	Jan., 1934	.28	.51	.28	3.15	.15	.67	7.1	39.2	6.98	Grass and bush.
		April, 1934	.26	.26	.19	1.16	.06	.39	4.1	39.1	3.13	Grass, long.
		July, 1934	.23	.53	.16	.86	.12	.31	5.9	34.6	3.31	Grass, mainly brown, long, and bush.
		Oct., 1934	.15	.25	.11	.58	.03	.18	4.8	38.2	1.90	Grass, mainly brown, long.
		April, 1935	.044	.26	.13	.50	.07	.22	5.1	37.3	2.73	Grass, mainly brown, long.
		July, 1935	.16	.32	.11	.49	.04	.08	3.0	39.7	2.40	Grass, brown, long.
		Oct., 1935	.11	.32	.11	.46	.04	.06	2.9	44.1	3.37	Grass, brown, long.

## AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Rondebosch No. 30	Zoutpansberg..	Nov., 1933	.18	.31	.17	1.07	.46	.44	9.8	36.1	4.27	Grass and bush; mostly grass.
		Mar., 1934	.12	.25	.14	1.09	.22	.35	6.2	34.3	2.83	Grass, mainly green.
		May, 1934	.081	.76	.51	.63	.10	.39	5.6	33.0	3.66	Grass, mainly brown, and bush; mostly grass.
		Oct., 1934	.15	.46	.27	1.31	.07	.26	8.9	31.8	3.71	Grass, mainly green, and bush.
		Nov., 1934	.093	.19	.14	.65	.06	.29	5.1	36.7	2.06	Grass, mainly green.
		Feb., 1935	.17	.28	.20	1.69	.14	.56	7.4	29.9	4.00	Grass, green, short.
		May, 1935	.085	.26	.19	.75	.11	.22	4.7	36.7	2.78	Grass, mainly brown, long.
		Aug., 1935	.046	.33	.20	.45	.08	.17	3.5	41.6	2.09	Grass, brown, long.
		Jan., 1934	.21	.26	.20	1.64	.36	.49	8.7	34.3	4.05	Grass, mainly green.
		Mar., 1934	.16	.32	.18	1.13	.12	.30	5.1	37.3	3.26	Grass.
		June, 1934	.18	.47	.21	.81	.07	.19	5.1	37.9	3.03	Grass, mainly brown, and bush; mostly grass.
		Oct., 1934	.097	.30	.14	.57	.06	.15	5.2	39.9	2.27	Grass.
Jan., 1935	.16	.65	.34	2.11	.56	.78	11.7	30.7	6.20	Grass, green, short, and bush.		
Mar., 1935	.12	.58	.24	1.32	.24	.34	8.8	31.2	4.12	Grass, mainly green, leafy, and bush; mostly grass.		
June, 1935	.087	.23	.16	.73	.06	.20	3.7	39.2	1.97	Grass, brown, long.		
Sept., 1935	.004	.20	.12	.50	.09	.31	2.4	43.4	2.12	Grass, brown, long.		
Kutamos Location	Zoutpansberg..	Feb., 1934	.093	.43	.25	1.67	.47	.57	8.3	33.4	4.33	Grass.
		April, 1934	.13	.44	.23	1.90	.49	.28	9.4	33.2	4.74	Grass.
		July, 1934	.071	.95	.39	1.04	.25	.35	8.5	29.3	5.10	Grass, brown, and bush.
		Nov., 1934	.14	.71	.36	1.53	.11	.11	18.8	30.6	5.39	Bush.
		Jan., 1935	.14	.49	.36	3.02	.38	.61	16.3	27.4	6.11	Grass, green, leafy.
		April, 1935	.13	.85	.33	2.38	.47	.27	11.6	31.7	7.10	Grass, mainly green, and bush; mostly grass.
		July, 1935	.071	.37	.21	1.18	.09	.07	4.4	39.1	3.27	Grass, brown, long.
		Oct., 1935	.073	.33	.28	1.41	.31	.26	7.1	36.7	3.41	Grass, mainly brown.
		Dec., 1933	.25	.41	.27	2.05	.07	.42	13.0	34.3	5.16	Grass, mainly green, and bush.
		Mar., 1934	.26	.36	.36	1.34	.30	.38	9.2	33.6	4.25	Grass and bush; mostly grass.
Jun., 1934	.17	.64	.23	1.27	.09	.24	10.9	28.3	4.06	Grass, mainly green, short, and bush; mostly grass.		
Goedgevonden No. 214	Zoutpansberg..	Jan., 1934	.13	.30	.12	1.42	.05	.33	6.8	39.8	3.21	Grass.
		April, 1934	.10	.27	.20	.82	.15	.24	6.5	38.7	2.37	Grass, long.
		July, 1934	.049	.21	.09	.18	.02	.03	5.1	38.6	1.23	Grass, brown.
		Mar., 1935	.09	.24	.07	.39	.03	.09	4.0	36.3	3.63	Grass.

## FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

## AREA 10 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
M'Petus Location.	Zoutpansberg.	Feb., 1934	.12	.88	.40	1.34	.28	.40	12.0	32.3	5.80	Grass, mainly green, and bush; mostly grass.
		May, 1934	.076	.50	.37	.79	.16	.40	7.1	35.3	3.06	Grass and bush; mostly grass.
		Aug., 1934	.085	.98	.44	.77	.20	.32	7.4	31.3	4.40	Grass, brown, and bush; mostly bush.
		April, 1935	.066	.55	.28	1.15	.19	.34	8.8	31.7	5.20	Grass.
Woodlands No. 1019	Zoutpansberg.	Dec., 1933	.14	1.29	.31	2.31	.05	.41	12.0	29.7	7.72	Grass, mainly green, and bush.
		Mar., 1934	.11	.99	.32	1.81	.04	.38	11.3	34.4	5.94	Grass and bush.
		June, 1934	.064	.49	.15	.95	.07	.33	4.8	36.7	3.03	Grass, brown, and bush; mostly grass.
		Sept., 1934	.063	.44	.11	.85	.04	.16	4.7	39.6	2.21	Grass, brown, and bush; mostly grass.
		Dec., 1934	.078	.91	.24	1.12	.08	.23	10.3	38.3	4.64	Grass, mainly green, and bush; mostly bush.
		Oct., 1935	.078	1.20	.48	1.50	.06	.14	11.8	23.3	7.62	Bush.
Durham No. 922.	Zoutpansberg.	Jan., 1934	.13	.83	.15	1.79	.05	.23	8.6	34.5	4.98	Grass, mainly green, and bush; mostly grass.
		April, 1934	.088	.97	.18	1.26	.04	.23	6.2	34.0	4.30	Grass, mainly brown, and bush.
		July, 1934	.084	.30	.13	1.02	.03	.21	5.3	35.8	2.32	Grass, brown, and bush; mostly grass.
		Oct., 1934	.039	.13	.08	.36	trace	.09	2.7	39.2	1.12	Grass, brown, long.
		Jan., 1935	.039	.26	.09	.29	.01	.19	3.2	39.8	1.44	Grass, brown, and bush; mostly grass.
		Sept., 1935	.072	.78	.13	.46	—	.12	5.4	32.9	3.19	Grass, brown, and bush.
Matray No. 686.	Zoutpansberg.	Jan., 1934	.11	.25	.14	1.59	.02	.37	9.1	39.1	3.25	Grass.
		April, 1934	.087	.41	.14	1.22	.04	.30	5.8	33.0	2.77	Grass and bush; mostly grass.
		July, 1934	.11	.40	.13	.99	.01	.33	4.4	32.6	2.63	Grass, brown, and bush; mostly grass.
		Oct., 1934	.071	.38	.09	.78	.03	.18	4.0	34.8	2.20	Grass, brown, and bush; mostly grass.
		Jan., 1935	.08	.43	.13	1.01	.06	.17	7.1	35.1	2.72	Grass, brown, and bush; mostly grass.
		April, 1935	.11	.48	.16	1.19	.02	.27	7.9	28.9	3.12	Grass and bush; mostly grass.
Goosen No. 1071 (Messina)	Zoutpansberg.	Nov., 1933	.15	1.25	.25	1.50	.03	.27	6.8	39.6	6.43	Grass, brown, and bush.
		Feb., 1934	.15	1.35	.31	2.33	.03	.43	8.1	34.5	8.06	Grass, mainly green, and bush.
		May, 1934	.091	.88	.15	1.08	.03	.20	5.5	41.3	4.22	Grass, mainly brown, and bush.
		Aug., 1934	.068	1.86	.43	.68	.01	.07	7.1	37.2	5.93	Bush.
		Nov., 1934	.083	1.11	.22	.64	.25	.27	7.5	33.3	4.63	Grass, brown, and bush.
		Feb., 1935	.18	1.59	.31	2.07	.11	.28	17.2	21.8	7.96	Bush.