

VII. APPENDIX.

Tables giving the origin, the date of collection, the chemical composition on a dry matter basis, and an approximate description of individual pasture samples from areas 1 to 18 representing the Union of South Africa.

AREA I.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Witvriec No. 14, P.O. Confidence	Piet Retief.....	Dec., 1933	.10	.33	.18	2.04	.05	.49	9.1	33.9	4.96	Grass, mainly green.	
		Jul., 1934	.039	.23	.08	.20	.01	.03	2.9	35.9	1.27	Grass, brown, leafy.	
		April, 1935	.12	.32	.13	.85	.02	.16	.03	4.0	38.2	1.98	Grass, long.
		July, 1935	.073	.22	.10	.84	.03	.22	.03	4.3	4.14	1.89	Grass.
		Oct., 1935	.070	.25	.06	.62	.04	.05	5.5	39.0	1.77	Grass, mainly green, leafy.	
Zendingpost....	Paulpietersburg	Feb., 1934	.18	.33	.14	1.62	.04	.24	6.0	37.7	3.53	Grass, mainly green, short.	
		July, 1934	.042	.24	.08	.15	trace	.03	3.3	36.4	1.28	Grass, brown, leafy.	
		Nov., 1934	.081	.23	.08	.68	.02	.15	.03	5.6	34.7	1.77	Grass, leafy.
		June, 1935	.096	.34	.15	1.16	trace	.29	.29	3.7	39.3	2.76	Grass.
		Sept., 1935	.054	.18	.15	.59	.02	.24	3.7	46.4	2.54	Grass, brown, and bush; mostly grass.	
Bleslokspruit No. 47	Piet Retief.....	Nov., 1933	.23	.47	.31	2.47	.06	.64	12.5	32.8	5.82	Grass and bush; mostly grass.	
		May, 1934	.095	.30	.16	.95	.01	.21	4.2	32.0	2.46	Grass, mainly brown, leafy.	
		Jan., 1935	.13	.34	.13	1.51	.03	.34	10.1	32.8	3.08	Grass, green, short.	
Susanna No. 58, P.O. Bergen	Piet Retief.....	Feb., 1934	.08	.22	.29	1.17	.02	.24	6.2	39.0	3.30	Grass.	
		June, 1934	.065	.42	.23	.63	.02	.20	5.0	35.2	3.45	Grass, mainly brown, short.	
		Sept., 1934	.09	.29	.12	1.12	.12	.54	.03	8.0	33.0	3.14	Grass, mainly green, leafy.
		Dec., 1934	.076	.34	.14	1.31	.28	.56	.06	6.0	43.1	3.97	Bush.
		Mar., 1935	.092	.24	.15	.77	.04	.22	6.7	32.8	2.58	Grass, mainly green, leafy.	
Moolbank No. 12.	Piet Retief.....	Feb., 1934	.12	.20	.16	1.67	.03	.34	6.5	38.7	3.62	Grass, mainly green, long and bush; mostly grass.	
		April, 1934	.12	.34	.18	1.01	.03	.24	6.3	34.7	3.22	Grass, short.	
		July, 1934	.089	.51	.15	.62	.03	.08	4.4	35.8	2.88	Grass, brown, leafy.	
		Oct., 1934	.087	.22	.14	.88	.11	.42	7.2	35.3	2.75	Grass, leafy.	
		Feb., 1935	.096	.23	.11	1.24	.03	.25	6.1	36.2	2.48	Grass, green, leafy.	
Hartbeestfontein.	Ernclo.....	Dec., 1933	.079	.17	.11	1.26	.03	.19	7.1	37.8	2.55	Grass.	
		Mar., 1934	.075	.31	.25	.71	.01	.18	5.5	34.6	2.09	Grass, mainly green.	
		June, 1934	.03	.27	.13	.33	.02	.07	3.0	35.5	1.54	Grass, mainly brown, leafy.	
		Sept., 1934	.029	.39	.07	.13	trace	.04	3.7	36.7	1.12	Grass, mainly brown, leafy.	
		Dec., 1934	.10	.18	.11	1.27	trace	.30	9.4	36.9	2.58	Grass, mainly green, leafy.	
		Mar., 1935	.077	.32	.14	.65	.04	.13	5.7	35.0	2.13	Grass, green.	
		June, 1935	.062	.22	.11	.35	trace	3.0	38.7	1.32	Grass, brown, leafy.		
		Sept., 1935	.075	.37	.16	.28	.15	.16	4.2	34.9	2.16	Grass, brown, leafy.	

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Inhwenfies, P.O. Pambult	Fiet Retief.....	Jan., 1934	.079	.29	.21	1.25	.03	.29	6.3	38.7	3.09	Grass, mainly green.	
		April, 1924	.10	.31	.15	.55	.02	.12	5.9	34.8	2.04	Grass, mainly green, leafy.	
		July, 1934	.027	.19	.10	.13	.01	.03	.03	3.9	33.3	1.19	Grass, mainly brown, leafy.
		Oct., 1934	.048	.12	.06	.22	.02	.04	.04	4.3	40.0	1.15	Grass, mainly brown, leafy.
		Jan., 1935	.11	.27	.18	1.36	trace	trace	.13	8.6	36.2	2.55	Grass, green, leafy.
		April, 1935	.053	.26	.15	.51	trace	.09	.09	5.6	35.6	1.62	Grass, mainly green.
		July, 1935	.053	.26	.12	.19	.03	.04	.04	2.8	41.5	1.62	Grass, brown, leafy.
Sluis No. 140....	Piet Retief.....	Feb., 1934	.077	.20	.13	1.19	.04	.21	7.7	38.5	2.26	Grass, mainly green.	
		May, 1934	.033	.22	.14	.55	trace	.15	4.8	36.7	1.57	Grass, leafy.	
		Aug., 1934	.027	.22	.10	.09	trace	.02	.02	2.6	36.8	.93	Grass, mainly brown, leafy.
		Nov., 1934	.082	.16	.09	.32	.03	.22	.22	7.6	36.3	2.11	Grass, mainly green, leafy.
		Feb., 1935	.066	.25	.17	.86	.05	.19	.19	5.6	35.6	2.21	Grass, green, leafy.
		May, 1935	.049	.27	.14	.29	.06	.08	.08	3.0	32.6	1.42	Grass, leafy.
		Aug., 1935	.053	.30	.12	.28	.07	.07	.07	3.3	37.7	1.66	Grass, brown, leafy.
		Feb., 1934	.10	.26	.17	1.50	.03	.33	.33	6.6	39.0	2.88	Grass, mainly green, short.
Vryegunst, P.O. Commondale	Piet Retief.....	July, 1934	.038	.24	.06	.15	.01	.03	2.8	35.4	1.23	Grass, brown, leafy.	
		May, 1935	.085	.31	.12	1.35	.03	.33	5.8	26.9	2.37	Grass, mainly green.	
Bergplaats, P.O. Mahamba	Piet Retief.....	Dec., 1933	.12	.26	.19	.90	.03	.45	6.3	35.7	3.44	Grass, mainly green.	
		June, 1934	—	.28	.12	.62	.02	—	3.5	33.7	1.79	Grass, mainly brown.	
		Nov., 1934	.14	.74	.39	1.91	.25	.77	.77	10.0	30.0	6.10	Grass, green and bush.
		Feb., 1935	.13	.44	.24	1.82	.27	.60	.60	7.8	32.3	4.48	Grass, green, leafy.
		May, 1935	.15	.44	.28	1.36	.26	.65	.65	7.9	29.7	4.08	Grass, green, leafy.
Rosendal.....	Ermelo.....	Aug., 1935	.073	.26	.16	.61	.03	.17	3.6	41.2	1.95	Grass.	
		Mar., 1934	.13	.19	.13	1.40	.02	.29	5.9	38.5	2.97	Grass, mainly green.	
		June, 1934	.059	.33	.13	.39	.03	.10	.10	3.1	39.8	1.75	Grass, mainly brown, long.
		Dec., 1934	.18	.60	.21	2.36	.11	.59	.59	10.2	29.4	5.36	Grass, green and bush; mostly grass.
Rebokfontein, P.O. Mhlotsheni	Zwasiland.....	Mar., 1935	.12	.33	.15	1.20	.28	.38	4.7	37.5	3.58	Grass, mainly green.	
		June, 1935	.082	.27	.13	.75	trace	.22	4.5	38.5	1.95	Grass, mainly green.	
		Sept., 1935	.092	.23	.10	1.26	.17	.58	.58	6.0	39.4	3.25	Grass, leafy.
		April, 1934	.12	.21	.09	1.50	.05	.37	.37	5.4	40.5	2.90	Grass, mainly green.
		July, 1934	.039	.26	.16	.36	.02	.18	.18	3.7	36.0	1.36	Grass, mainly brown, long.
		April, 1935	.079	.23	.18	1.45	.19	.57	.57	6.5	38.4	3.33	Grass, mainly green.
		July, 1935	.093	.24	.18	.83	.16	.44	.44	5.8	38.0	2.56	Grass, mainly green.
Excelsior P.O. Pambult	Piet Retief.....	Oct., 1935	.13	.28	.12	2.05	.22	.90	8.4	35.8	4.78	Grass, mainly green.	
		Dec., 1933	.083	.29	.20	1.00	.03	.33	6.9	34.8	4.09	Grass, mainly green, short.	
		Mar., 1934	.11	.35	.24	1.78	.17	.61	.61	6.6	32.2	3.96	Grass, short.
		June, 1934	.050	.32	.18	.72	.06	.14	.14	3.0	33.6	2.28	Grass, mainly brown.
		Nov., 1934	.084	.31	.14	.68	.12	.31	.31	4.4	33.3	2.31	Grass, mainly green.
		May, 1935	.08	.16	.10	.84	trace	.10	.10	3.9	40.2	1.72	Grass, long.
Oct., 1935	.059	.18	.08	.42	.03	.06	.06	5.4	39.8	1.45	Grass, mainly brown, leafy.		

## AREA I (continued).

Farm.	Disctd.	Date.	P.	Cs.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Meyershoop, P.O. Wittenberg	Pict Retief.....	Jan., 1934	.15	.18	.12	.06	.28	8.8	40.7	2.43	Grass, mainly green.	
		April, 1934	.12	.42	.82	.02	.39	4.3	39.9	3.08	Grass, short.	
		July, 1934	.07	.37	.19	.65	.01	.40	3.2	34.4	2.37	Grass, mainly brown, short.
		Dec., 1934	.077	.33	.20	.87	.05	.33	4.6	37.8	2.56	Grass, leafy.
		Mar., 1935	.068	.33	.13	.76	.04	.19	4.3	39.0	2.26	Grass.
Umkonta.....	Pict Retief.....	Feb., 1934	.090	.24	.16	.36	.04	.39	6.3	37.3	3.14	Grass, short.
		May, 1934	.058	.20	.11	.68	trace	.14	4.5	34.8	1.55	Grass.
		Jan., 1935	.082	.36	.16	.32	.03	.31	5.7	36.8	2.74	Grass, green, leafy.
		April, 1935	.068	.32	.19	.84	trace	.12	4.6	30.2	2.44	Grass, mainly green.
		Sept., 1935	.051	.21	.07	.38	trace	.11	3.6	41.8	1.39	Grass, mainly brown.
Hebron No. 185..	Pict Retief.....	Nov., 1933	.13	.29	.22	.73	.03	.41	10.5	33.8	3.77	Grass, mainly green.
		Feb., 1934	.079	.31	.18	.29	.02	.37	6.3	37.7	2.94	Grass.
		May, 1934	.078	.42	.24	.75	.02	.27	5.6	36.1	2.81	Grass, leafy.
		Aug., 1934	.054	.28	.14	.38	.01	.08	5.6	35.9	2.15	Grass, mainly brown, short.
		Feb., 1935	.080	.28	.10	.03	.04	.34	5.2	37.7	2.34	Grass, green, leafy.
Burntop.....	Pict Retief.....	May, 1935	.064	.36	.15	.46	.02	.11	4.0	33.4	2.08	Grass, mainly brown, leafy.
		Sept., 1935	.039	.22	.11	.30	.05	.15	2.3	46.5	1.43	Grass, brown, long.
		Dec., 1933	.14	.18	.10	.26	.06	.44	10.0	37.1	4.03	Grass, short.
		Mar., 1934	.10	.19	.16	.86	.02	.39	6.8	35.8	3.37	Grass, mainly green, short.
		June, 1934	.086	.25	.13	.06	.01	.27	4.1	38.4	2.30	Grass, mainly brown, leafy.
Bellast.....	Pict Retief.....	Sept., 1934	.062	.26	.12	.77	trace	.18	5.2	35.5	2.00	Grass, leafy.
		Mar., 1935	.12	.33	.37	.34	.07	.46	9.0	32.9	8.83	Grass, green.
		April, 1935	.077	.34	.07	.71	.10	.27	5.0	35.8	2.39	Grass, mainly green.
		July, 1935	.054	.24	.12	.31	.02	.08	2.6	43.7	1.56	Grass, brown, long.
		Jan., 1934	.10	.19	.11	.39	.03	.28	7.3	37.4	3.16	Grass, short.
Eden, P.O. Anys-spruit	Pict Retief.....	April, 1934	.094	.21	.13	.14	.02	.43	5.9	36.1	3.51	Grass, short.
		July, 1934	.028	.21	.09	.31	trace	.11	3.6	40.5	1.38	Grass, brown, leafy.
		Oct., 1934	.073	.21	.07	.67	.02	.16	6.6	35.5	1.89	Grass, leafy.
		July, 1935	.059	.25	.09	.28	.02	.11	2.5	42.2	1.51	Grass, brown.
		Mar., 1934	.079	.35	.15	.04	.03	.20	5.4	40.2	2.45	Grass, mainly green.
Uitgevallen, P.O. Bergen	Pict Retief.....	June, 1934	.027	.30	.12	.38	.02	.09	3.5	34.3	1.56	Grass, mainly brown, short.
		Oct., 1934	.043	.22	.05	.32	trace	.09	3.9	44.0	1.14	Grass, long.
		Jan., 1935	.12	.24	.17	.20	.04	.39	6.8	36.8	2.62	Grass, green, long.
		April, 1935	.10	.36	.19	.83	trace	.36	6.3	36.9	3.95	Grass, mainly green, long.
		April, 1934	.082	.33	.15	.02	.02	.20	5.7	34.9	2.39	Grass, mainly green.
Uitgevallen, P.O. Bergen	Pict Retief.....	Nov., 1934	.061	.18	.05	.64	trace	.10	4.6	40.3	1.69	Grass, leafy.
		Feb., 1935	.095	.26	.11	.05	.03	.24	5.2	37.4	2.45	Grass, mainly green, leafy.
		April, 1935	.10	.30	.28	.34	.04	.30	6.3	48.7	3.06	Grass, long.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Marinthal.....	Piet Retief.....	May, 1934	.061	.26	.12	.69	.03	.16	4.8	35.7	1.87	Grass.	
		Aug., 1934	.09	.41	.16	1.34	.05	.29	4.3	35.8	3.64	Grass, mainly brown.	
		Nov., 1934	.069	.23	.10	.77	.07	.34	.44	4.4	36.6	1.77	Grass, mainly green.
		Feb., 1935	.073	.22	.11	.92	trace	.84	4.4	4.4	35.5	2.14	Grass, mainly green.
Edinburgh, P.O. Idalia	Piet Retief.....	April, 1934	.13	.18	.09	1.57	.60	.36	9.4	38.0	3.99	Grass, mainly green.	
		June, 1934	.056	.13	.11	.27	.02	.02	2.5	42.6	.90	Grass, mainly brown, long.	
		Nov., 1934	.077	.20	.07	.75	.02	.23	6.9	38.5	1.99	Grass, green, long.	
		April, 1935	.082	.22	.10	.48	.04	.24	4.5	37.1	2.62	Grass, mainly brown, leafy.	
Aug., 1935	.041	.29	.13	.23	trace	.07	2.3	36.0	1.51	Grass, brown, leafy.			
Idalia.....	Piet Retief.....	Feb., 1935	.076	.26	.11	.79	.20	.26	5.0	35.2	2.30	Grass, green, leafy.	
		May, 1935	.054	.25	.09	.28	.02	.07	3.1	34.9	1.36	Grass, mainly brown, leafy.	
		July, 1935	.051	.23	.08	.15	.02	.05	2.7	36.3	1.14	Grass, brown.	
		Oct., 1935	.035	.20	.06	.17	.02	.02	3.7	38.6	1.26	Grass, brown, leafy.	
Tafelkoppies, No. 9A, P.O. Idalia	Piet Retief.....	Sept., 1934	.077	.21	.10	.72	.03	.14	4.5	36.4	2.06	Grass, mainly brown.	
		Mar., 1935	.079	.33	.18	.65	.04	.15	4.3	34.3	1.97	Grass, mainly green.	
		June, 1935	.075	.27	.14	.31	trace	.07	3.3	35.6	1.57	Grass, mainly brown, leafy.	
		Sept., 1935	.053	.40	.15	.19	.04	.07	3.6	36.8	2.01	Grass, brown, leafy.	
Speenkoppies, P.O. Moolman Sdg.	Piet Retief.....	May, 1934	.063	.26	.17	1.22	.02	.14	5.0	35.6	2.69	Grass, leafy and bush; mostly grass.	
		Aug., 1934	.043	.26	.14	.17	trace	.03	3.2	37.9	1.27	Grass, mainly brown, leafy.	
		Nov., 1934	.10	.23	.11	1.19	.07	.27	11.3	40.8	2.72	Grass, green, long.	
Potgietershoop...	Piet Retief.....	Mar., 1935	.072	.30	.13	.83	.04	.17	4.6	36.7	2.25	Grass, mainly green, long.	
		June, 1934	.047	.24	.10	.63	.01	.19	3.7	36.6	1.75	Grass, mainly green, long.	
		Dec., 1934	.10	.20	.11	1.39	trace	.25	7.9	34.7	2.61	Grass, green, long.	
		April, 1935	.071	.29	.07	.85	.03	.22	5.2	39.7	1.94	Grass, mainly brown.	
Witkloof.....	Piet Retief.....	June, 1935	.058	.39	.17	.40	.02	.20	3.4	35.7	2.12	Grass, mainly brown, short.	
		Aug., 1935	.058	.22	.06	.54	.03	.17	3.5	41.0	1.75	Grass, mainly brown.	
		July, 1934	.029	.38	.14	.10	trace	.03	2.5	36.3	1.43	Grass, brown, leafy.	
Vergelegen No. 68 P.O. Dirkiesdorp	Wakkerstroom.	Jan., 1935	.098	.28	.14	1.47	.04	.73	6.6	38.9	2.81	Grass, mainly green.	
		May, 1935	.065	.23	.12	.47	.02	.11	3.1	34.8	1.63	Grass, mainly brown, leafy.	
		April, 1934	.083	.37	.17	.76	.02	.18	4.6	33.7	2.23	Grass, short.	
		June, 1935	.064	.38	.14	.25	trace	.07	2.6	38.7	1.67	Grass, mainly brown.	
Sept., 1935	.11	.31	.12	1.56	.04	.43	15.4	43	30.4	3.46	Grass, green, short.		

## AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Wonderfontein...	Vryheid.....	Nov., 1933	.079	.18	.08	.98	.09	.25	8.4	38.1	2.63	Grass, mainly green.
		Feb., 1934	.14	.19	.10	1.35	.04	.24	7.6	39.6	2.94	Grass, mainly green.
		April, 1934	.11	.25	.15	2.07	.08	.39	10.1	35.4	3.68	Grass, mainly green, leafy.
		July, 1934	.059	.34	.25	.23	.35	.48	4.0	4.0	2.27	Grass, mainly brown.
		Sept., 1934	.054	.19	.04	.28	.02	.06	6.3	37.7	1.43	Grass, leafy.
		Jan., 1935	.097	.22	.11	1.56	.03	.26	8.5	34.5	2.98	Grass, mainly green, leafy.
		April, 1935	.083	.30	.12	.75	.11	.16	4.4	3.9	2.58	Grass, mainly green, leafy.
		July, 1935	.072	.36	.12	.38	.08	.15	3.9	36.3	2.33	Grass, mainly brown, leafy.
		Oct., 1935	.08	.24	.17	.64	.28	.56	7.0	34.0	2.87	Grass, green, leafy.
		Dec., 1933	.13	.26	.08	1.28	.06	.26	8.3	39.5	3.05	Grass, green.
Weltevrede No. 541	Vryheid.....	Mar., 1934	.083	.30	.21	1.01	.03	.29	4.8	38.1	2.61	Grass, mainly green.
		May, 1934	.046	.21	.08	.71	.02	.20	4.0	37.1	2.11	Grass, mainly brown.
		Aug., 1934	.063	.34	.20	.35	.01	.05	3.9	38.4	2.09	Grass, mainly brown.
		Nov., 1934	.075	.19	.06	.81	.04	.17	7.2	37.9	1.67	Grass, mainly green, leafy.
		Feb., 1935	.078	.26	.10	.84	.04	.73	5.8	32.8	2.57	Grass, mainly green, short.
		May, 1935	.072	.25	.14	.48	.03	.10	5.2	30.8	2.00	Grass, leafy.
		Aug., 1935	.093	.27	.13	.38	.03	.15	2.3	40.4	1.63	Grass, mainly brown, leafy.
		Jan., 1934	.064	.16	.14	.79	.02	.22	3.3	42.8	1.94	Grass, long.
		June, 1934	.042	.27	.12	.24	.02	.02	5.8	40.2	1.60	Grass, mainly brown.
		Oct., 1934	.071	.22	.14	.84	.02	.09	4.4	33.8	2.06	Grass, mainly green, leafy.
Wagendrift.....	Vryheid.....	Dec., 1934	.13	.32	.13	1.49	.18	.48	10.6	34.3	3.32	Grass, mainly green, leafy.
		Mar., 1935	.088	.25	.07	.47	.04	.21	5.7	35.0	2.64	Grass, mainly green, leafy.
		June, 1935	.05	.31	.12	.48	trace	.20	3.6	37.3	1.98	Grass, mainly brown, leafy.
		Sept., 1935	.083	.29	.15	.36	.03	.13	3.4	39.7	2.08	Grass, mainly brown, leafy.
		Nov., 1933	.20	.25	.16	1.76	.06	.44	9.6	34.7	4.05	Grass, green.
		Feb., 1934	.092	.22	.12	1.10	.01	.21	4.9	40.8	2.42	Grass, mainly green.
		May, 1934	.093	.29	.16	.92	.06	.33	4.1	38.3	2.40	Grass.
		Aug., 1934	.05	.18	.10	.40	trace	.08	2.6	44.5	1.50	Grass, mainly brown.
		April, 1935	.18	.25	.11	1.33	trace	.60	8.0	34.8	3.22	Grass, green.
		June, 1935	.12	.20	.07	.75	trace	.13	5.5	37.3	1.91	Grass, brown.
Beaufort.....	Vryheid.....	Sept., 1935	.035	.30	.11	.27	.02	.06	2.5	39.4	1.37	Grass, brown, long.
		Nov., 1933	.20	.25	.16	1.76	.06	.44	9.6	34.7	4.05	Grass, green.
		Feb., 1934	.092	.22	.12	1.10	.01	.21	4.9	40.8	2.42	Grass, mainly green.
		May, 1934	.093	.29	.16	.92	.06	.33	4.1	38.3	2.40	Grass.
		Aug., 1934	.05	.18	.10	.40	trace	.08	2.6	44.5	1.50	Grass, mainly brown.
		April, 1935	.18	.25	.11	1.33	trace	.60	8.0	34.8	3.22	Grass, green.
		June, 1935	.12	.20	.07	.75	trace	.13	5.5	37.3	1.91	Grass, brown.
		Sept., 1935	.035	.30	.11	.27	.02	.06	2.5	39.4	1.37	Grass, brown, long.
		Dec., 1933	.19	.31	.17	2.03	.06	.44	9.4	35.1	4.60	Grass, green.
		Mar., 1934	.11	.30	.20	1.29	.03	.37	5.2	40.3	3.00	Grass, long.
Sandhurst.....	Vryheid.....	June, 1934	.093	.37	.16	.55	.01	.15	8.9	36.4	2.29	Grass, mainly brown, leafy
		Sept., 1934	.059	.29	.09	.26	trace	.13	4.2	39.2	1.47	Grass, mainly brown.
		Feb., 1935	.09	.22	.10	.79	.03	.36	4.7	39.4	1.82	Grass, mainly green.
		May, 1935	.093	.31	.09	.65	trace	.09	4.4	35.5	1.85	Grass, mainly brown, long.
		Aug., 1935	.059	.31	.11	.75	.01	.19	3.5	42.0	1.96	Grass, brown, long.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Driekwart.....	Vryheid.....	Jan., 1934	.096	.19	.13	1.29	.02	.26	5.8	41.7	2.52	Grass, mainly green.	
		April, 1934	.12	.31	.22	1.19	.03	.30	5.4	37.8	2.73	Grass, mainly green, long.	
		July, 1934	.025	.18	.12	.23	.01	.05	.25	5.5	41.5	1.13	Grass, brown, long.
		Oct., 1934	.066	.21	.10	.75	.03	.20	.10	5.9	38.0	2.10	Grass, mainly green.
		Mar., 1935	.12	.19	.09	.78	trace	.15	.74	7.4	40.0	2.00	Grass, green, leafy.
		July, 1935	.045	.28	.10	.23	.02	.07	3.2	38.2	38.2	1.22	Grass, brown, leafy.
		Oct., 1935	.074	.23	.03	.31	.03	.06	4.3	38.5	38.5	1.41	Grass, brown, leafy.
		Dec., 1933	.052	.21	.11	.74	.05	.54	5.6	40.6	40.6	2.37	Grass.
Waterval No. 553	Vryheid.....	April, 1934	.097	.27	.15	1.29	.05	.27	5.4	36.6	2.32	Grass, short.	
		July, 1934	.045	.25	.14	.37	.03	.15	3.6	34.4	1.65	Grass, brown, leafy.	
		Oct., 1934	.058	.27	.33	.48	.03	.16	4.5	34.2	2.28	Grass, short.	
		Jan., 1935	.081	.39	.26	1.00	.11	.35	5.5	35.0	2.79	Grass, mainly green, leafy.	
		April, 1935	.052	.28	.10	.41	.03	.17	3.4	32.6	2.58	Grass, mainly brown, short.	
		Jan., 1934	.16	.29	.28	1.62	.26	.58	8.9	34.7	4.09	Grass, mainly green, leafy.	
		April, 1934	.12	.29	.21	1.22	.31	.67	5.5	40.8	3.30	Grass.	
		July, 1934	.048	.27	.16	.51	.03	.24	3.6	39.7	1.60	Grass, brown, leafy.	
Meriba.....	Vryheid.....	Sept., 1934	.062	.37	.20	.65	.05	.42	5.1	35.6	2.40	Grass, short.	
		Dec., 1934	.10	.28	.14	1.23	.13	.46	5.0	37.5	2.57	Grass, leafy.	
		Mar., 1935	.11	.20	.19	1.09	.03	.37	7.3	36.4	3.15	Grass, green, short.	
		Feb., 1934	.12	.18	.13	1.41	.04	.37	7.2	37.1	2.90	Grass.	
		May, 1934	.037	.23	.11	.44	.03	.13	4.0	37.0	1.78	Grass, mainly brown, leafy.	
		Aug., 1934	.094	.19	.11	.85	.03	.21	6.9	35.1	2.03	Grass, short.	
		Dec., 1934	.11	.28	.12	1.44	.08	.33	7.7	34.5	3.05	Grass, green, leafy.	
		Feb., 1935	.062	.35	.21	.79	.09	.15	6.0	34.3	2.90	Grass, mainly green, leafy.	
Vreesniet.....	Vryheid.....	May, 1935	.095	.33	.15	.46	.08	.13	4.2	32.0	2.86	Grass, short.	
		Nov., 1933	.20	.26	.14	1.82	.18	.62	14.0	34.2	4.32	Grass, green.	
		Feb., 1934	.11	.20	.12	1.08	.06	.27	5.8	37.4	2.31	Grass, mainly green.	
		May, 1934	.049	.24	.14	.54	.03	.16	3.1	38.1	1.62	Grass.	
		Sept., 1934	.06	.25	.09	.38	.02	.09	4.7	38.1	1.29	Grass, mainly brown, leafy.	
		Dec., 1934	.14	.23	.11	1.43	.08	.29	11.9	35.7	2.96	Grass, green, leafy.	
		Mar., 1935	.07	.25	.07	.67	.03	.14	5.0	34.4	3.55	Grass, mainly green, long.	
		June, 1935	.06	.24	.09	.20	trace	.05	2.6	37.1	1.40	Grass, brown, leafy.	
Sterkstroom.....	Vryheid.....	Sept., 1935	.037	.57	.11	.16	.02	.06	2.4	40.6	1.29	Grass, brown, leafy.	
		Dec., 1933	.14	.23	.14	1.70	.10	.36	11.4	38.3	3.38	Grass, green, short.	
		Mar., 1934	.08	—	.11	1.29	.08	.27	6.8	39.4	2.70	Grass, green.	
		June, 1934	.039	.24	.12	.46	.03	.15	3.3	37.0	1.57	Grass.	
		July, 1934	.047	.23	.10	.13	trace	.03	2.3	38.4	1.06	Grass, brown, leafy.	
		Oct., 1934	.098	.28	.11	1.09	.18	.37	10.6	29.6	3.27	Grass, green.	
		Nov., 1934	.18	.27	.13	1.57	.20	.39	14.5	34.2	3.39	Grass, green.	
		May, 1935	.032	.27	.12	.27	.03	.08	2.7	34.4	1.54	Grass, mainly brown, leafy.	
Aug., 1935	.045	.23	.11	.16	.03	.05	2.1	39.2	1.38	Grass, brown, leafy.			

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Bloemhof.....	Vryheid.....	Jan., 1934	.09	.20	.11	1.15	.07	.27	7.1	38.4	2.55	Grass.
		April, 1934	.094	.43	.15	.62	.03	.17	4.9	37.1	2.07	Grass, mainly green, leafy.
		Aug., 1934	.066	.22	.09	.13	.01	.01	41.5	2.1	1.05	Grass, brown, leafy.
		Jan., 1935	.097	.23	.16	1.17	.08	.29	7.0	35.9	2.56	Grass, green.
		April, 1935	.084	.25	.12	1.04	.04	.18	5.4	33.3	2.28	Grass, mainly green, leafy.
		July, 1935	.037	.22	.09	.20	.03	.07	2.4	40.5	1.26	Grass, brown, leafy.
		Oct., 1935	.05	.24	.11	.29	.02	.06	4.1	40.2	1.76	Grass, mainly brown, leafy.
		Dec., 1933	.094	.19	.09	1.03	.03	.24	8.6	36.3	2.27	Grass, mainly green, short.
		Mar., 1934	.06	.25	.11	.94	.01	.21	3.3	36.8	2.27	Grass, mainly green.
		June, 1934	.016	.24	.09	.12	.01	.08	2.4	36.0	1.23	Grass, mainly brown, long.
Sewefontein.....	Vryheid.....	Sept., 1934	.031	.31	.14	1.14	.01	.03	2.5	37.4	1.30	Grass, brown.
		Dec., 1934	.05	.20	.08	.83	.01	.15	5.2	36.9	1.98	Grass, mainly green, leafy.
		Mar., 1935	.062	.26	.07	.78	trace	.15	5.6	33.9	2.06	Grass, mainly green, leafy.
		June, 1935	.034	.20	.08	.24	trace	.07	3.0	37.6	1.12	Grass, brown, leafy.
		Sept., 1935	.047	.39	.20	.29	.07	.15	4.0	35.0	1.86	Grass, brown, leafy.
		Jan., 1934	.073	.20	.14	1.22	.03	.27	5.3	41.3	2.50	Grass, mainly green, long.
		April, 1934	.066	.36	.15	.94	trace	.21	5.0	34.0	2.34	Grass and bush; mostly grass.
		July, 1934	.027	.24	.10	.17	trace	.05	3.1	38.3	1.10	Grass, mainly brown, leafy.
		Oct., 1934	.065	.21	.08	.65	.02	.13	5.4	37.8	1.62	Grass, mainly green, leafy.
		April, 1935	.062	.41	.22	.74	.02	.09	3.7	34.2	3.87	Grass, leafy.
Wellevede.....	Vryheid.....	July, 1935	.044	.18	.06	.21	.02	.08	3.4	38.6	0.94	Grass, brown, leafy.
		Oct., 1935	.05	.24	.13	.30	.02	.05	4.0	36.2	1.59	Grass, mainly brown, leafy.
		Feb., 1934	.055	.22	.13	1.03	.04	.26	4.2	43.2	2.19	Grass, mainly green, long.
		May, 1934	.08	.21	.11	.80	trace	.22	2.2	44.5	1.81	Grass, mainly brown, long.
		Nov., 1934	.17	.25	.11	1.13	.08	.30	6.3	37.8	2.77	Grass, mainly green, leafy.
		Feb., 1935	.07	.38	.17	.83	.02	.35	4.7	36.7	2.03	Grass, mainly green, leafy.
		May, 1935	.062	.22	.10	.47	.02	.12	3.4	36.7	1.48	Grass, mainly brown, leafy.
		July, 1935	.044	.18	.06	.21	.02	.08	3.4	38.6	0.94	Grass, brown, leafy.
		Oct., 1935	.05	.24	.13	.30	.02	.05	4.0	36.2	1.59	Grass, mainly brown, leafy.
		Aug., 1935	.052	.17	.13	.34	.03	.08	3.1	40.8	1.43	Grass, mainly brown, leafy.
Freiberg.....	Helmekeaar....	Mar., 1934	.09	.23	.13	.95	.07	.30	6.1	37.8	2.65	Grass, mainly green, leafy.
		June, 1934	.065	.20	.09	.43	.04	.12	4.8	33.8	1.68	Grass, mainly brown, short.
		Oct., 1934	.076	.16	.06	.22	.06	.12	5.3	36.3	1.63	Grass, short.
		Dec., 1934	.092	.25	.10	.78	.02	.24	6.4	31.7	2.54	Grass, short.
		Mar., 1935	.092	.19	.12	.92	.09	.37	5.2	35.3	2.74	Grass, mainly green.
		June, 1935	.057	.23	.08	.46	trace	.11	3.6	37.5	1.80	Grass.
		Sept., 1935	.068	.39	.06	.41	.02	.10	5.4	37.2	3.34	Grass, brown, short and bush; mostly grass.
		April, 1934	.083	.33	.27	.69	.05	.31	3.5	41.7	2.24	Grass.
		July, 1934	.055	.33	.20	.56	.01	.18	2.3	42.5	1.88	Grass, long.
Sintria.....	Helmekeaar....	Oct., 1934	.031	.33	.13	.17	.02	.11	2.6	42.8	1.61	Grass, mainly brown.
		Jan., 1935	.11	.32	.18	1.07	.05	.44	4.6	36.7	3.18	Grass, mainly green, leafy.
		April, 1935	.10	.30	.15	.64	trace	.18	5.1	37.2	2.88	Grass, short.
		July, 1935	.097	.28	.19	1.00	.03	.29	4.5	39.7	2.74	Grass, mainly brown.
		Oct., 1935	.10	.36	.18	.42	.18	.24	4.7	37.4	2.76	Grass, brown, short.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Dorie.....	Helpmekaar....	May, 1934	.032	.63	.27	.36	.01	.15	2.7	37.4	2.70	Grass, mainly brown, long.
		Aug., 1934	.06	.30	.37	.40	trace	.13	2.3	40.9	1.87	Grass, mainly brown, long.
		Nov., 1934	.11	.37	.16	1.40	trace	.34	7.1	34.0	2.96	Grass, mainly brown, short.
		Feb., 1935	.06	.25	.13	.40	.02	.16	.31	43.5	1.92	Grass, mainly brown, long.
		May, 1935	.074	.28	.16	.60	.02	.12	.33	37.4	1.90	Grass, mainly brown.
		Aug., 1935	.07	.32	.15	.28	.02	.19	2.6	41.9	1.68	Grass, brown.
Cairmore.....	Ngutu.....	Mar., 1934	.078	.47	.24	.75	.02	.22	5.6	36.1	2.65	Grass, mainly green.
		July, 1935	.074	.28	.12	.51	.03	.18	3.0	43.2	1.75	Grass, mainly brown, long.
		Oct., 1935	.064	.22	.15	.41	.02	.11	3.9	40.6	1.37	Grass, mainly brown.
Sunrise.....	Ngutu.....	July, 1934	.087	.30	.14	.82	.01	.21	4.4	37.7	2.10	Grass, mainly green.
		April, 1935	.095	.31	.13	.76	.11	.22	5.0	36.1	2.15	Grass, mainly green, long.
		May, 1935	.074	.45	.16	.37	.03	.07	4.1	33.2	1.99	Grass, leafy.
		Sept., 1935	.042	.19	.08	.22	trace	.12	3.0	38.8	1.14	Grass, mainly brown, leafy.
		Aug., 1935	.053	.28	.07	.35	.02	.13	3.5	40.7	1.28	Grass, mainly brown, long.
Dawn.....	Ngutu.....	Aug., 1934	.072	.20	.09	.54	.01	.12	4.0	41.4	1.60	Grass, mainly brown.
		Mar., 1935	.086	.21	.09	1.30	trace	.34	5.7	40.5	2.58	Grass, green, long.
		June, 1935	.072	.22	.08	.91	trace	.27	4.6	41.2	2.35	Grass, mainly brown, long.
Balgray.....	Dundee.....	Aug., 1935	.053	.28	.07	.35	.02	.13	3.5	40.7	1.28	Grass, mainly brown, long.
		Mar., 1934	.14	.21	.10	1.23	.03	.24	6.3	37.4	2.65	Grass, mainly green.
		July, 1934	.016	.29	.09	.11	trace	.10	2.2	37.0	1.22	Grass, mainly brown, leafy
		Oct., 1934	.13	.29	.17	1.65	.15	.49	10.2	32.1	3.90	Grass, green, short.
		Jan., 1935	.17	.28	.14	1.54	.03	.30	8.9	33.6	3.19	Grass, green, leafy.
		Mar., 1935	.19	.31	.15	1.39	trace	.26	8.1	32.0	3.20	Grass, green, short.
Aroca.....	Dundee.....	June, 1935	.053	.32	.09	.22	trace	.04	2.2	35.7	1.49	Grass, brown, short.
		July, 1935	.11	.27	.13	.47	.02	.07	5.7	31.3	2.36	Grass, brown, leafy; and mealie leaves.
		Sept., 1935	.04	.23	.05	.27	.03	.10	3.8	37.1	1.00	Grass, brown.
		May, 1934	.10	.28	.12	.90	.03	.16	4.7	34.1	2.18	Grass, mainly green, leafy.
		July, 1934	.03	.26	.07	.15	trace	.02	2.8	37.8	1.17	Grass, brown, leafy.
		Oct., 1934	.21	.32	.23	1.78	.06	.45	12.4	29.0	4.74	Grass, green, leafy.
Glenluce.....	Dundee.....	Jan., 1935	.094	.25	.14	1.26	.03	.22	5.9	35.1	2.45	Grass, green, leafy.
		April, 1935	.16	.33	.15	.96	.04	.18	5.9	33.7	2.95	Grass, green, short.
		Oct., 1935	.06	.25	.06	.29	.03	.05	4.3	36.9	1.44	Grass, mainly brown, leafy.
		June, 1934	.098	.32	.18	.93	.02	.30	5.5	34.8	2.70	Grass, leafy.
		Sept., 1934	.15	.44	.15	.80	.03	.23	7.8	32.7	2.44	Grass, mainly green, leafy.
		Nov., 1934	.14	.33	.18	1.56	trace	.30	9.2	33.2	3.23	Grass, green, short.
Glenluce.....	Dundee.....	Feb., 1935	.11	.36	.21	1.20	.03	.35	6.9	35.5	3.02	Grass, green, leafy.
		May, 1935	.12	.37	.25	.86	.03	.18	5.2	33.3	2.75	Grass, mainly green, short.
		Aug., 1935	.063	.24	.10	.37	trace	.05	5.7	33.7	1.37	Grass, brown, leafy.



AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Van Tondersrus..	Dundee.....	Feb., 1934	.12	.29	.16	1.79	.06	.40	4.8	41.7	3.93	Grass, mainly green, long.
		Aug., 1934	.048	.30	.09	trace	.03	.46	3.4	38.9	1.36	Grass, mainly brown.
		Nov., 1934	.19	.41	.21	2.23	.09	.46	13.3	31.3	3.39	Grass, green, leafy.
		Mar., 1935	.16	.34	.16	trace	.38	trace	5.2	36.7	3.39	Grass, mainly green, leafy.
Rosewarne.....	Dundee.....	June, 1934	.091	.49	.23	1.73	.02	.22	3.9	41.5	4.10	Grass, long.
		Jan., 1935	.075	.27	.13	1.67	.04	.21	5.8	40.6	3.13	Grass, green, long.
Welgedaan.....	Dundee.....	July, 1934	.035	.22	.06	.23	trace	.02	2.2	41.9	1.10	Grass, mainly brown.
		Oct., 1934	.052	.25	.07	.26	.01	.03	3.3	39.1	1.26	Grass, mainly green, long.
		May, 1935	.14	.29	.12	.90	.03	.12	5.3	37.4	2.26	Grass, long.
Exchange.....	Newcastle.....	Feb., 1934	.095	.41	.18	1.34	.02	.38	6.6	33.8	3.27	Grass, mainly green, leafy.
		May, 1934	.11	.42	.29	1.41	.06	.52	8.1	35.5	3.72	Grass, leafy.
		Aug., 1934	.15	.31	.14	.84	.01	.24	8.1	35.1	2.46	Grass, mainly green, leafy.
		Feb., 1935	.12	.29	.15	1.34	.08	.43	7.1	36.3	3.11	Grass, green, leafy.
		May, 1935	.074	.34	.15	.66	.01	.08	4.1	34.1	2.10	Grass.
		Aug., 1935	.079	.26	.11	.65	.03	.21	2.9	36.7	1.75	Grass, brown, leafy.
		Mar., 1934	.17	.29	.14	1.00	.06	.39	9.7	33.2	3.74	Grass, mainly green, leafy.
		June, 1934	.12	.54	.27	1.22	.06	.35	5.5	34.9	—	Grass, leafy.
Dryent.....	Newcastle.....	Sept., 1934	.14	.26	.13	1.19	.03	.37	10.1	34.1	2.66	Grass, green, leafy.
		Dec., 1934	.32	.34	.20	2.42	trace	.50	14.4	31.6	5.21	Grass, green, leafy.
		Mar., 1935	.21	.57	.15	1.64	trace	.31	10.5	32.3	3.50	Grass, green, leafy.
		June, 1935	.07	.27	.08	.55	trace	.10	3.3	38.1	1.91	Grass, mainly brown, leafy.
		Sept., 1935	.088	.25	.10	.53	.02	.10	4.3	36.2	1.76	Grass, brown, short.
		April, 1934	.12	.31	.22	1.04	.01	.26	6.1	34.4	2.70	Grass, mainly green, leafy.
		July, 1934	.063	.26	.11	.81	.01	.13	4.3	36.4	1.93	Grass.
		Oct., 1934	.11	.31	.18	1.04	.06	.19	8.4	32.0	2.71	Grass, green, leafy.
		Jan., 1935	.13	.26	.15	1.52	trace	.39	9.0	33.8	3.19	Grass, green, leafy.
		April, 1935	.094	.29	.12	.89	.02	.22	5.7	35.9	2.56	Grass, mainly green, leafy.
Eldorado.....	Utrecht.....	July, 1935	.068	.22	.13	.65	.01	.25	3.1	40.5	2.51	Grass, mainly brown.
		Oct., 1935	.048	.37	.09	.87	.02	.15	5.2	39.6	2.01	Grass, mainly brown, leafy.
		April, 1934	.18	.32	.12	1.06	.04	.16	5.6	34.4	2.68	Grass, mainly green, leafy.
		July, 1934	.081	.44	.25	1.44	.01	.07	4.0	36.8	3.33	Grass, brown.
		Dec., 1934	.20	.36	.09	1.65	.06	.36	9.3	36.8	3.83	Grass, mainly green.
Waaikoek.....	Utrecht.....	Mar., 1935	.12	.29	.16	1.47	trace	.30	6.0	36.6	3.06	Grass, green, leafy.
		May, 1935	.058	.18	.05	.28	.02	.07	3.8	31.0	1.32	Grass, brown, short.
		June, 1934	.036	.24	.12	.29	.01	.08	2.3	38.9	1.43	Grass, mainly brown.
		Sept., 1934	.05	.25	.08	.60	.01	.14	7.1	37.1	2.03	Grass, mainly brown, leafy.
Jan., 1935	.19	.35	.12	1.55	trace	.48	8.5	35.3	3.58	Grass, green, leafy.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Frisgewaagd.....	Utrecht.....	June, 1934	.09	.41	.18	1.47	.02	.07	4.4	37.4	3.54	Grass, brown.
		Oct., 1934	.084	.34	.19	.83	.04	.31	4.2	34.8	2.68	Grass, mainly brown, leafy.
		Nov., 1934	.26	.43	.20	2.28	.06	.41	14.9	27.8	5.39	Grass, green, short.
		Feb., 1935	.18	.42	.08	1.36	.03	.31	8.6	39.1	3.32	Grass, mainly green, leafy.
Labelle Esperanza	Paulpietersburg	Nov., 1933	.068	.16	.10	.40	.01	.09	4.1	36.6	1.60	Grass, mainly brown, short.
		Feb., 1934	.11	.33	.20	1.98	.13	.64	7.4	37.0	3.28	Grass, mainly green, short.
		May, 1934	.059	.37	.27	.61	trace	.16	4.8	36.6	2.44	Grass and shrub; mostly grass.
		Aug., 1934	.049	.29	.17	.24	trace	.04	3.1	35.3	1.62	Grass, mainly brown.
		Nov., 1934	.12	.49	.11	1.20	.02	.20	9.0	35.0	2.60	Grass, mainly green, leafy.
		Feb., 1935	.082	.22	.10	.88	trace	.77	5.5	34.1	2.20	Grass, mainly green, leafy.
		May, 1935	.12	.32	.17	.88	.03	.13	5.5	33.4	2.34	Grass, leafy.
		Aug., 1935	.089	.41	.26	.37	.12	.14	4.2	34.4	2.40	Grass, mainly brown, leafy.
Schikhoek.....	Paulpietersburg	Dec., 1933	.13	.30	.14	1.50	.04	.30	6.4	37.6	3.11	Grass, mainly green, short.
		Feb., 1934	.15	.21	.13	1.59	.02	.33	7.0	37.6	3.25	Grass, mainly green.
		June, 1934	.055	.34	.20	.41	.09	.25	3.7	36.5	2.07	Grass, mainly green, long.
		Sept., 1934	.073	.36	.11	.54	.02	.11	5.6	36.4	1.69	Grass, mainly brown, leafy.
		Dec., 1934	.13	.24	.14	1.93	.03	.39	7.5	37.0	3.41	Grass, leafy.
		Mar., 1935	.11	.53	.22	.84	.03	.24	6.2	36.2	3.23	Grass, mainly green, leafy and bush; mostly grass.
Knooppaan.....	Paulpietersburg	June, 1935	.11	.29	.18	.78	.06	.18	4.4	35.0	2.67	Grass, leafy.
		Sept., 1935	.10	.46	.16	.58	.04	.18	4.7	35.4	2.53	Grass, mainly brown, leafy.
		Jan., 1934	.18	.29	.16	1.66	.01	.49	5.7	38.0	4.02	Grass.
		April, 1934	.11	.27	.25	1.04	.01	.56	5.1	38.8	2.99	Grass, mainly green.
		July, 1934	.09	.53	.40	.55	.03	.17	5.8	35.9	3.28	Grass, mainly brown.
		Oct., 1934	.12	.25	.16	1.00	.05	.30	9.3	34.4	2.90	Grass,
		Jan., 1935	.10	.39	.23	1.42	.05	.37	6.7	35.7	3.31	Grass, green, leafy.
		April, 1935	.11	.33	.16	.97	.04	.20	6.1	33.8	3.48	Grass, mainly green, leafy.
		July, 1935	.079	.40	.22	.78	.08	.19	4.6	36.3	2.51	Grass, mainly brown, leafy.
		Oct., 1935	.14	.29	.21	1.16	.06	.41	8.0	32.6	3.67	Grass, mainly green, short.
Bosfontein.....	Klip River....	Nov. 1933	.17	.29	.17	1.69	.10	.46	12.3	34.0	3.92	Grass, mainly green, leafy.
		Feb., 1934	.082	.31	.16	1.36	.02	.31	7.3	38.8	3.75	Grass, mainly green, leafy.
		May, 1934	.12	.33	.14	1.31	.04	.14	5.9	34.4	2.35	Grass, mainly green, leafy.
		Sept., 1934	.062	.37	.10	.53	.02	.08	6.0	33.4	1.60	Grass, leafy.
		Mar., 1935	.082	.26	.10	.86	trace	.11	5.6	37.4	2.05	Grass, green, leafy.
		June, 1935	.07	.37	.14	.58	trace	.22	5.1	33.6	1.99	Grass, mainly brown, leafy.
		Sept., 1935	.063	.21	.04	.56	.02	.15	5.2	36.3	1.51	Grass, mainly brown, leafy.
Orange Grove....	Klip River....	Dec., 1933	.10	.27.	.15	1.23	.05	.29	7.4	37.2	2.81	Grass, mainly green, leafy.
		Mar., 1934	.096	.24	.15	1.18	.07	.25	5.3	38.5	2.30	Grass, leafy.
		July, 1934	.044	.36	.11	.19	.01	.03	2.8	35.5	1.39	Grass, mainly brown, leafy.
		Sept., 1934	.088	.32	.10	.66	.01	.14	6.2	35.7	—	Grass, leafy.
		April, 1935	.14	.34	.15	.93	.02	.21	4.9	32.7	2.47	Grass, green.
July, 1935	.088	.34	.11	.38	trace	.14	3.2	35.7	1.78	Grass, mainly brown, leafy.		

## AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Mount Plessis....	Klip River....	Jan., 1934	.091	.20	.10	1.32	.04	.19	7.5	39.7	2.64	Grass, mainly green, leafy.	
		April, 1934	.08	.27	.12	1.01	.02	.17	6.7	37.0	2.13	Grass, mainly green, leafy.	
		July, 1934	.03	.22	.09	—	trace	.02	.02	2.9	35.9	1.05	Grass, brown, leafy.
		May, 1935	.075	.39	.14	.68	.04	.14	.04	4.1	33.1	2.07	Grass, short.
		Aug., 1935	.046	.22	.08	.34	.02	.09	.09	3.0	28.8	1.13	Grass, brown, leafy.
		Dec., 1933	.12	.26	.16	1.36	.02	.29	.29	7.3	38.0	2.91	Grass, green, leafy.
		Mar., 1934	.10	.24	.12	1.00	.01	.21	.21	5.3	39.9	2.53	Grass, mainly green.
		May, 1934	.06	.56	.18	.69	.02	.23	.23	2.4	36.5	2.48	Grass, mainly brown.
Kleinfontein.....	Klip River....	Aug., 1934	.03	.29	.11	.12	trace	.01	2.0	38.3	1.20	Grass, brown, leafy.	
		Nov., 1934	.10	.21	.11	.78	.02	.14	7.1	37.3	2.07	Grass, mainly green, leafy.	
		Mar., 1935	.11	.32	.10	.72	trace	.10	.10	5.5	33.8	2.10	Grass, mainly green, short.
		May, 1935	.089	.48	.19	.52	.02	.09	.09	4.2	32.0	2.32	Grass, mainly green, leafy.
		July, 1935	.06	.40	.14	.20	trace	.08	.08	2.5	33.8	1.74	Grass, brown, leafy.
		Jan., 1934	.18	.27	.15	1.54	.03	.25	.25	7.7	39.5	2.95	Grass, mainly green.
		June, 1934	.10	.39	.09	.43	.38	.50	.50	2.5	39.5	2.50	Grass, mainly brown, leafy.
		Oct., 1934	.07	.32	.08	.37	trace	.07	.07	3.2	37.6	1.63	Grass, mainly brown, leafy.
Springvale.....	Klip River....	Jan., 1935	.078	.39	.18	1.05	.02	.17	5.8	33.8	2.72	Grass, green, leafy.	
		April, 1935	.14	.40	.12	.90	.02	.13	4.9	35.7	2.35	Grass, green, leafy.	
		Sept., 1935	.069	.54	.06	.20	trace	.06	.06	3.1	33.1	1.97	Grass, brown, leafy.
		Oct., 1935	.049	.48	.05	.21	trace	.03	.03	3.1	33.8	1.60	Grass, brown, leafy.
		Feb., 1934	.12	.25	.14	1.50	trace	.20	.20	5.9	40.4	3.31	Grass, mainly green.
		July, 1934	.033	.34	.10	.10	.01	.01	.01	2.6	38.4	1.55	Grass, brown, leafy.
		Sept., 1934	.087	.47	.14	.34	.01	.07	.07	4.4	35.5	1.89	Grass, mainly brown, leafy.
		Dec., 1934	.15	.30	.15	1.46	.03	.27	.27	6.6	36.7	2.83	Grass, mainly green, leafy.
Davelshoek.....	Klip River....	Feb., 1935	.12	.38	.15	1.00	.04	.14	6.0	37.1	2.34	Grass, green, leafy.	
		June, 1935	.074	.37	.13	.28	trace	.07	2.8	36.0	1.72	Grass, brown, short.	
		Jan., 1934	.18	.39	.23	1.90	.05	.40	.40	8.1	35.4	4.63	Grass and bush; mostly grass.
		April, 1934	.06	.37	.11	.75	.01	.16	.16	5.0	39.3	2.13	Grass.
		Feb., 1934	.12	.30	.23	1.41	.02	.27	.27	6.6	40.6	3.06	Grass, mainly green.
		May, 1934	.074	.35	.14	.41	.01	.11	.11	3.0	37.8	1.82	Grass, mainly brown, leafy.
		Mar., 1934	.087	.28	.11	.96	.02	.20	.20	5.5	35.9	2.39	Grass, mainly green.
		Oct., 1934	.11	.33	.15	.61	.02	.18	.18	5.2	39.6	2.14	Grass, long.
Horton Radford..	Bergville.....	Nov., 1933	.10	.20	.12	.76	.01	.22	6.2	36.9	2.11	Grass,	
		Feb., 1934	.084	.18	.18	2.07	.02	.32	8.7	38.9	4.25	Grass, mainly green.	
		May, 1934	.042	.28	.13	.92	trace	.16	.16	3.8	37.1	1.78	Grass.
		Oct., 1934	.071	.24	.11	.65	.01	.22	.22	4.4	38.1	2.16	Grass.
		Nov., 1934	.093	.21	.14	1.22	.02	.27	.27	7.0	37.3	2.56	Grass, mainly green.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Needwood.....	Bergville.....	Dec., 1933	.14	.25	.14	1.38	.02	.26	7.7	39.1	2.84	Grass, mainly green, short.
		Mar., 1934	.086	.22	.12	.98	.01	.19	5.4	40.0	2.28	Grass, mainly green, leafy.
		June, 1934	.052	.28	.11	.51	trace	.10	3.6	36.7	1.73	Grass, leafy.
		Oct., 1934	.13	.25	.13	1.57	.04	.37	7.0	36.5	3.18	Grass, green.
Morningside.....	Bergville.....	Jan., 1934	.10	.29	.14	1.29	.02	.20	9.6	39.0	2.82	Grass, mainly green, leafy.
		April, 1934	.065	.21	.12	1.21	.01	.34	6.8	37.5	2.71	Grass, mainly green.
		July, 1934	.031	.26	.14	.44	trace	.10	2.8	37.0	1.52	Grass, mainly brown, leafy.
		Oct., 1934	.10	.24	.12	1.90	trace	.28	4.8	36.5	4.40	Grass, green.
Langkloof No. A..	Bergville.....	Nov., 1933	.16	.27	.14	1.25	.01	.32	8.1	36.8	2.94	Grass, short.
		Feb., 1934	.18	.25	.16	1.32	.02	.17	7.3	40.3	2.75	Grass, mainly green, leafy.
		May, 1934	.064	.32	.13	.74	.01	.23	4.8	34.4	2.20	Grass, leafy.
		Aug., 1934	.036	.23	.18	1.10	.02	.09	4.1	40.4	2.60	Grass, mainly brown, leafy.
		Nov., 1934	.14	.31	.16	1.31	.04	.30	8.6	35.0	2.82	Grass, green, leafy.
Second.....	Bergville.....	Dec., 1933	.15	.29	.16	1.15	.02	.24	7.3	41.6	2.63	Grass, mainly green.
		Mar., 1934	.098	.26	.11	1.14	.01	.16	6.7	36.4	2.55	Grass, mainly green, leafy.
		June, 1934	.027	.26	.13	.34	trace	.05	3.0	36.8	1.29	Grass, mainly brown, leafy.
		Sept., 1934	.15	.21	.13	1.62	.04	.39	9.2	34.5	3.30	Grass, green...
Clifford Chambers	Bergville.....	Jan., 1934	.12	.22	.13	1.51	.03	.31	7.7	38.2	3.08	Grass, green.
		April, 1934	.08	.25	.15	1.07	.01	.16	6.4	37.8	2.60	Grass, mainly green, leafy.
		July, 1934	.042	.36	.13	.39	trace	.14	2.1	39.6	1.70	Grass, brown, leafy.
		Oct., 1934	.13	.18	.13	1.40	.04	.28	8.8	35.0	2.90	Grass, green.
Tetworth.....	Lions River...	Nov., 1933	.11	.16	.08	.98	.05	.36	6.6	43.0	2.20	Grass.
		Feb., 1934	.16	.23	.09	1.71	.05	.48	8.2	38.2	3.79	Grass, mainly green.
		June, 1934	.12	.34	.10	1.55	.02	.57	6.1	33.5	4.59	Grass, mainly green, short.
		Oct., 1934	.14	.24	.06	.68	.04	.20	7.7	33.1	3.21	Grass, mainly green, leafy.
		Jan., 1935	.20	.62	.18	4.02	.06	1.02	15.6	27.6	9.68	Grass, green, short.
April, 1935	.31	.39	.26	4.27	.59	1.65	18.0	26.8	9.28	Grass, mainly green, short.		
Lee Crofts.....	Lions River...	Dec., 1933	.15	.27	.12	1.42	.07	.30	8.9	38.6	3.33	Grass, mainly green, leafy.
		Mar., 1934	.15	.21	.11	1.69	.06	.38	8.8	36.8	3.94	Grass, mainly green.
		May, 1934	.065	.28	.15	.66	.03	.24	5.0	38.0	2.14	Grass.
		Nov., 1934	.11	.23	.09	1.14	.04	.24	8.8	35.7	2.54	Grass, green, leafy.
		Feb., 1935	.097	.39	.09	1.45	.04	.35	7.1	37.7	2.89	Grass, green, long.
May, 1935	.16	.27	.09	1.65	.05	.26	8.5	36.3	3.51	Grass, green, leafy.		
Shawswood.....	Lions River...	Jan., 1934	.18	.21	.08	1.41	.04	.29	7.3	36.7	3.13	Grass, mainly green.
		April, 1934	.092	.24	.08	.79	.03	.18	5.2	38.0	1.71	Grass, mainly green.
		July, 1934	.084	.33	.10	.63	.03	.17	5.3	35.4	1.85	Grass, mainly green, leafy.
		Nov., 1934	.11	.24	.09	1.45	.04	.32	8.9	37.8	3.24	Grass, mainly green, leafy.
		Feb., 1935	.15	.31	.04	1.57	.06	.35	5.9	38.6	3.46	Grass, mainly green, leafy.
June, 1935	.08	.20	.06	.62	trace	.10	4.1	41.5	1.70	Grass, long.		

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Monte Christo No. C	Estcourt.....	Dec., 1933	.15	.28	.17	1.42	.03	.34	9.4	33.1	3.33	Grass, mainly green.
		Mar., 1934	.15	.36	.18	.98	.02	.25	6.9	31.5	2.91	Grass, mainly green, short.
		June, 1934	.07	.27	.12	.56	.03	.11	3.8	28.5	2.85	Grass, mainly brown, leafy.
		Sept., 1934	.08	.54	.10	.84	.02	.22	5.7	34.7	2.17	Grass, mainly green, leafy.
Dec., 1934	.13	.28	.13	1.41	.06	.25	.06	8.2	32.5	2.92	Grass, green, leafy.	
Skurfepoort.....	Estcourt.....	Jan., 1934	.13	.36	.23	1.61	.03	.30	11.2	34.4	3.75	Grass, green, leafy.
		Mar., 1934	.20	.28	.26	2.31	.03	.41	9.9	32.5	4.42	Grass, green, short.
		May, 1934	.15	.38	.15	1.43	trace	.52	6.2	33.5	3.39	Grass, leafy.
		Aug., 1934	.038	.33	—	.38	.01	.03	2.6	36.0	1.37	Grass, mainly brown, leafy.
		Nov., 1934	.14	.34	.15	1.23	.03	.25	7.0	35.8	2.89	Grass, green, leafy.
Clouston.....	Estcourt.....	Feb., 1934	.11	.32	.14	1.75	.06	.39	7.6	36.9	3.64	Grass, mainly green, short.
		April, 1934	.16	.28	.14	1.08	.04	.30	7.6	32.5	2.68	Grass, mainly green, leafy.
		July, 1934	.037	.24	.09	.19	trace	.06	2.8	33.8	1.15	Grass, mainly brown, leafy.
		Oct., 1934	.12	.28	.11	.92	.02	.21	5.0	34.8	2.65	Grass, mainly green, leafy.
		Jan., 1935	.11	.31	.15	.98	.09	.26	6.9	30.4	2.36	Grass, green, leafy.
Twyfelfontein.....	Estcourt.....	Nov., 1933	.15	.30	.13	.96	.02	.25	10.6	37.6	2.82	Grass, mainly green, short.
		Mar., 1934	.09	.36	.15	.89	.02	.19	4.7	35.6	2.18	Grass, green, leafy.
		June, 1934	.037	.38	.11	.27	.01	.07	3.0	34.3	1.68	Grass, mainly brown, leafy.
		Sept., 1934	.082	.28	.09	.54	trace	.10	5.9	34.3	1.99	Grass, leafy.
		April, 1935	.06	.33	.11	.47	.03	.13	4.2	34.6	1.82	Grass, long.
Bayonne.....	Estcourt.....	July, 1935	.052	.24	.08	.30	.04	.19	4.3	40.1	1.37	Grass, mainly brown.
		Oct., 1935	.09	.26	.09	.81	.03	.16	6.2	36.6	1.75	Grass, leafy.
		Jan., 1934	.13	.29	.12	1.25	.02	.23	7.5	35.6	2.70	Grass, mainly green, leafy.
		April, 1934	.095	.39	.15	.48	.03	.16	5.7	33.6	1.92	Grass, mainly green, leafy.
		July, 1934	.044	.33	.11	.33	trace	.08	3.5	36.0	1.63	Grass, brown, leafy.
Gehluskus.....	Estcourt.....	Oct., 1934	.07	.41	.09	.46	.01	.08	3.8	36.8	2.00	Grass, mainly green, leafy.
		Jan., 1935	.076	.36	.14	.96	.02	.16	5.3	33.9	2.18	Grass, green, leafy.
		May, 1935	.11	.50	.11	.45	.01	.09	3.0	35.0	2.07	Grass, leafy.
		Feb., 1934	.08	.34	.14	1.19	.04	.28	6.3	38.8	2.72	Grass, green, leafy.
		May, 1934	.062	.49	.18	.98	.03	.22	3.8	36.1	2.66	Grass, leafy.
Meltonleigh.....	Estcourt.....	Nov., 1934	.15	.30	.15	1.40	.03	.36	10.0	31.9	2.90	Grass, green, leafy.
		Dec., 1934	.12	.35	.14	1.01	.04	.20	7.4	37.5	2.33	Grass, green, leafy.
		June, 1935	.056	.34	.12	trace	.08	.24	3.4	34.6	1.66	Grass, mainly brown, leafy.
		Sept., 1935	.067	.25	.10	.25	.01	.08	3.7	35.6	1.68	Grass, brown, leafy.
		Nov., 1933	.24	.27	.15	2.05	.05	.40	12.1	34.4	4.29	Grass, mainly green.
Meltonleigh.....	Estcourt.....	Feb., 1934	.16	.23	.14	1.44	.03	.26	7.1	36.1	2.97	Grass, green.
		May, 1934	.065	.31	.15	.88	.02	.18	5.5	34.8	2.14	Grass, mainly green, leafy.
		Aug., 1934	.069	.30	—	trace	.02	.37	3.5	37.2	1.31	Grass, brown.
		Nov., 1934	.071	.19	.09	.92	.06	.30	6.7	39.9	2.01	Grass, mainly green, long.
		Jan., 1935	.082	.27	.13	1.10	.03	.31	4.9	38.0	2.45	Grass, mainly green, long.
Meltonleigh.....	Estcourt.....	May, 1935	.087	.27	.11	.93	.03	.19	4.0	35.9	2.23	Grass, mainly green, long.
		Aug., 1935	.057	.30	.11	.25	.01	.07	2.4	37.3	1.58	Grass, brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA I (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Loch Sloy.....	Estcourt.....	Dec., 1933	.12	.37	.21	1.43	.02	.23	0.3	38.7	3.77	Grass, mainly green.
		Mar., 1934	.073	.24	.14	1.18	.02	.26	4.3	41.3	2.63	Grass, mainly green.
		June, 1934	.037	.27	.19	.78	trace	.16	4.4	39.1	2.09	Grass, mainly green, long.
		Sept., 1934	.038	.28	.12	.25	.01	.21	3.7	41.4	1.24	Grass, mainly brown, long.
		Dec., 1934	.093	.36	.14	.74	trace	.14	6.7	36.7	2.16	Grass, mainly green, long.
		Mar., 1935	.078	.19	.06	.96	.02	.14	6.0	39.3	1.92	Grass, mainly green, long.
		June, 1935	.055	.21	.08	.55	trace	.06	3.1	39.7	1.46	Grass, brown, leafy.
		Sept., 1935	.05	.19	.04	.19	.01	.06	2.9	36.5	1.06	Grass, brown, long.
		Calcote.....	Estcourt.....	Jan., 1934	.12	.18	.10	1.61	.02	.25	8.4	38.4
April, 1934	.20	.32		.22	2.16	.56	.94	8.6	35.4	6.26	Grass, green.	
July, 1934	.04	.26		.08	.33	trace	.11	2.7	37.0	1.64	Grass, leafy.	
Oct., 1934	.07	.19		.07	.55	.02	.13	4.0	36.9	1.41	Grass, mainly brown.	
Jan., 1935	.21	.23		.11	1.88	.08	.48	10.2	35.7	4.04	Grass, green, long.	
April, 1935	.097	.20		.08	1.11	.05	.20	6.5	34.7	2.42	Grass, mainly green.	
Oct., 1935	.055	.19		.05	.17	.01	.07	3.5	40.4	0.95	Grass, brown, leafy.	
Gretna Green....	Weenen.....	Nov., 1933	.25	.30	.18	2.25	.02	.48	16.3	33.9	4.83	Grass, green, leafy.
		Feb., 1934	.08	.27	.12	1.12	.03	.24	7.6	35.6	2.66	Grass, green, leafy.
		May, 1934	—	.38	.16	.72	trace	—	5.3	33.0	2.02	Grass, mainly green, leafy.
		Aug., 1934	.065	.26	—	.23	trace	.05	3.6	36.4	1.36	Grass, mainly brown, leafy.
		Nov., 1934	.13	.28	.15	1.21	.03	.33	10.0	30.0	2.68	Grass, green, leafy.
		Feb., 1935	.15	.38	.14	1.22	.02	.28	7.8	32.8	2.75	Grass, green, short.
		May, 1935	.092	.41	.11	.44	.03	.10	4.1	32.6	2.07	Grass, leafy.
		Aug., 1935	.064	.30	.09	.26	.02	.07	3.2	37.5	1.51	Grass, brown, leafy.
Bellevue.....	Weenen.....	Dec., 1933	.13	.19	.11	1.25	.05	.37	—	33.5	2.70	Grass, green.
		Mar., 1934	.10	.29	.15	1.04	.03	.27	7.8	32.9	2.46	Grass, mainly green, leafy.
		June, 1934	.05	.24	.12	.37	.01	.08	3.8	32.8	1.44	Grass, mainly brown, leafy.
		Sept., 1934	.082	.39	.08	.44	.04	.13	5.4	36.1	1.76	Grass, mainly brown, leafy.
		Dec., 1934	.065	.22	.11	.97	.02	.22	5.8	33.7	1.94	Grass, green, leafy.
		Mar., 1935	.09	.41	.11	.62	.05	.18	5.9	33.6	2.31	Grass, green, leafy.
		June, 1935	.054	.29	.11	.26	trace	.07	3.1	34.7	1.34	Grass, brown, leafy.
		Sept., 1935	.05	.48	.12	.26	.02	.11	3.0	36.5	1.50	Grass, brown, leafy.
Oribivlakte.....	Weenen.....	Jan., 1934	.098	.32	.21	1.05	.04	.24	6.8	36.0	2.66	Grass, green, leafy.
		April, 1934	.10	.27	.17	.96	.02	.23	15.1	34.8	2.40	Grass, mainly green, leafy.
		July, 1934	.045	.37	.14	.25	trace	.07	3.1	32.6	1.68	Grass, brown, leafy.
		Jan., 1935	.092	.37	.15	.99	.02	.24	6.2	32.6	2.25	Grass, green, leafy.
		April, 1935	.075	.28	.11	.64	.03	.11	5.3	31.2	1.74	Grass, mainly green, leafy.
		July, 1935	.04	.27	.09	.18	.02	.05	2.9	34.8	1.19	Grass, brown, leafy.
Oct., 1935	.053	.32	.09	.41	.01	.01	4.9	34.9	2.15	Grass, mainly brown, leafy.		

## AREA 2.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
U. No. 55.....	Hlabisa.....	Nov., 1933	.11	.30	.15	.93	.22	.53	4.2	36.8	3.35	Grass.	
		May, 1934	.03	.27	.16	.33	.07	.17	2.8	39.0	1.57	Grass, long.	
		June, 1934	.05	.38	.09	.39	.03	.13	.42	3.0	35.3	1.49	Grass, long.
		Sept., 1934	.04	.15	.12	.20	.10	.17	3.0	36.5	1.15	Grass, mainly brown.	
		Nov., 1934	.048	.23	.11	.36	.05	.11	3.2	39.2	1.48	Grass, mainly brown, long.	
		Feb., 1935	.064	.20	.12	.68	.10	.27	4.4	38.1	1.83	Grass, mainly green.	
		May, 1935	.058	.27	.17	.45	.07	.16	3.7	34.2	3.01	Grass.	
		Aug., 1935	.093	.33	.14	.45	.10	.19	3.2	37.8	2.04	Grass, mainly brown.	
U. No. 95.....	Hlabisa.....	Jan., 1934	.11	.23	.15	1.22	.12	.47	5.7	38.7	2.79	Grass, mainly green.	
		May, 1934	.047	.26	.17	.37	.07	.17	3.7	34.5	1.57	Grass.	
		Aug., 1934	.085	.21	.15	.87	.11	.49	5.8	40.5	2.21	Grass, mainly green, leafy.	
		Mar., 1935	.05	.41	.13	.29	.05	.10	3.3	37.3	1.40	Grass, mainly green.	
		July, 1935	.062	.28	.12	.28	.06	.15	3.2	40.4	1.31	Grass, leafy.	
		Oct., 1935	.057	.19	.11	.19	.10	.08	2.9	36.4	1.17	Grass, mainly brown, leafy.	
U. No. 67.....	Hlabisa.....	Jan., 1934	.057	.17	.13	.67	.10	.20	5.7	41.6	1.71	Grass.	
		Mar., 1934	.066	.15	.13	.83	.15	.31	4.8	42.3	2.03	Grass.	
		April, 1935	.069	.20	.16	.59	.10	.21	4.2	35.3	2.04	Grass, leafy.	
		June, 1935	.052	.26	.10	.28	.03	.09	3.4	38.6	1.55	Grass, mainly brown, leafy.	
		Nov., 1933	.06	.39	.12	.53	.04	.14	4.4	41.8	1.98	Grass, mainly brown.	
		Feb., 1934	.23	.31	.14	1.62	.41	.31	11.1	32.3	4.56	Grass, mainly green, short.	
Gwedhla No. 669.	Hlabisa.....	May, 1934	.26	.55	.34	2.25	.77	2.08	8.3	32.1	7.64	Grass.	
		Aug., 1934	.19	.59	.48	.68	.79	1.31	11.5	34.4	6.40	Grass, mainly green.	
		Nov., 1934	.24	.48	.44	3.33	1.07	1.24	18.0	29.1	8.36	Grass, green, leafy.	
		Feb., 1935	.10	.26	.14	.84	.12	.16	4.9	36.3	2.26	Grass, mainly green, long.	
		May, 1935	.075	.21	.07	.50	.08	.09	3.5	37.9	1.56	Grass, mainly brown.	
		Aug., 1935	.22	.28	.19	1.36	.12	.33	11.1	31.0	3.56	Grass, mainly green, leafy.	
		Dec., 1933	.16	.24	.17	1.12	.36	.48	4.9	38.2	3.44	Grass, short.	
		Mar., 1934	.32	.32	.21	1.78	.19	1.23	10.7	36.1	5.22	Grass, mainly green, short.	
Nyalazi No. 520...	Hlabisa.....	June, 1934	.23	.73	.32	2.01	1.22	2.19	14.8	30.8	8.62	Grass, mainly green, leafy.	
		Sept., 1934	.19	.37	.22	2.22	1.02	1.97	15.0	30.3	8.56	Grass, green, leafy.	
		Dec., 1934	.087	.26	.14	1.20	.15	.48	7.5	35.0	3.09	Grass, green, leafy.	
		Mar., 1935	.098	.26	.11	.46	.10	.16	3.8	36.3	2.06	Grass, mainly brown, leafy.	
		June, 1935	.18	.30	.26	1.73	1.40	2.92	13.7	35.8	8.12	Grass, mainly green, leafy.	
		Sept., 1935	.10	.68	.23	1.07	.35	1.33	6.1	38.0	3.59	Grass, mainly green.	
		Jan., 1934	.28	.28	.28	2.59	.35	1.08	13.4	31.6	6.52	Grass, short.	
		April, 1934	.19	.35	.16	1.40	.43	.77	6.3	34.1	4.45	Grass, mainly green.	
Hoho No. 522....	Hlabisa.....	July, 1934	.15	.29	.17	.82	.28	.67	5.4	36.6	3.20	Grass.	
		Oct., 1934	.18	.86	.31	1.91	1.12	2.24	11.4	28.7	8.60	Grass, green, leafy.	
		Jan., 1935	.078	.31	.13	.63	.05	.25	5.2	34.2	2.56	Grass, mainly green, leafy.	
		April, 1935	.15	.30	.16	1.17	.47	.71	9.9	34.0	4.45	Grass, mainly green, leafy.	
		July, 1935	.26	.89	.33	2.01	.78	1.39	16.6	29.4	8.00	Grass, green, leafy.	
		Oct., 1935	.18	.19	.18	1.19	.60	1.13	6.4	42.3	4.51	Grass.	

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 2 (continued).

Farm.	Dist. i t.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Mfembeni No. T.A. 528	Hlabisa.....	Nov., 1933	.13	.26	.18	.64	.07	.23	4.9	38.8	2.10	Grass.
		Feb., 1934	.076	.27	.16	1.00	.14	.28	5.0	37.0	2.59	Grass, mainly green.
		May, 1934	.052	.27	.16	.55	.06	.26	6.2	36.1	2.22	Grass, mainly green, leafy.
		Aug., 1934	.11	.28	.17	.85	.12	.34	6.5	38.0	2.56	Grass, mainly green, long.
		Nov., 1934	.13	.26	.16	1.62	.18	.54	9.9	35.7	3.55	Grass, mainly green, long.
		Feb., 1935	.079	.38	.20	.69	.05	.17	5.2	36.9	2.29	Grass, green, long.
		May, 1935	.061	.28	.09	.31	.04	.10	3.1	35.2	1.78	Grass, mainly brown, leafy.
		Aug., 1935	.052	.29	.11	.20	.03	.09	2.9	37.6	1.63	Grass, mainly brown, leafy
		Dec., 1933	.12	.31	.22	1.44	.20	.53	6.5	39.0	3.70	Grass.
		Mar., 1934	.078	.35	.20	.71	.10	.31	4.6	37.7	2.62	Grass.
Tank Area No. 524	Hlabisa.....	June, 1934	.057	.36	.20	.63	.07	.47	4.4	35.7	2.62	Grass, mainly green, long.
		Sept., 1934	.11	.29	.14	1.01	.13	.31	8.2	35.5	2.80	Grass, mainly green, long.
		Dec., 1934	.14	.28	.17	1.62	.15	.36	8.5	36.4	3.47	Grass, leafy.
		Mar., 1935	.065	.36	.20	.50	.03	.09	4.8	36.0	1.91	Grass, green, long.
		June, 1935	.041	.26	.07	.25	trace	.07	3.8	38.4	1.56	Grass, mainly brown, leafy.
		Sept., 1935	.049	.25	.10	.18	.09	.22	3.0	39.8	1.44	Grass, mainly brown.
		Jan., 1934	.17	.22	.15	1.36	.04	.31	5.2	39.8	2.77	Grass.
		April, 1934	.047	.31	.21	.69	.07	.22	4.0	38.4	2.17	Grass.
		July, 1934	.06	.20	.14	.62	.11	.33	5.6	37.8	1.97	Grass, mainly green, long.
		Oct., 1934	.12	.24	.16	1.20	.16	.40	9.2	34.7	3.00	Grass, mainly green, long.
Busedeni No. T.A. 529	Nongoma.....	Jan., 1935	.085	.34	.22	.66	.05	.22	5.0	35.9	2.22	Grass, green, long.
		April, 1935	.039	.33	.09	.37	.04	.14	3.1	33.6	1.71	Grass, long.
		July, 1935	.052	.26	.12	.20	.04	.08	3.3	33.1	1.33	Grass, mainly brown, leafy.
		Oct., 1935	.053	.24	.10	.32	.05	.10	4.4	40.9	1.52	Grass, mainly brown, leafy.
		Dec., 1933	.25	.44	.20	1.27	.39	.91	9.2	30.4	5.42	Grass, mainly green.
		Mar., 1934	.087	.31	.13	.88	.18	.37	5.7	42.5	2.55	Grass, mainly green.
		Sept., 1934	.071	.30	.17	.58	.04	.12	4.9	36.8	1.81	Grass, mainly brown.
		Aug., 1935	.058	.26	.08	.20	.08	.13	1.8	43.2	1.41	Grass, brown.
		Jan., 1934	.10	.31	.16	.91	.12	.34	5.1	38.6	2.77	Grass, mainly green.
		April, 1934	.087	.24	.13	.74	.08	.34	4.3	34.1	2.24	Grass, mainly brown.
Elgin.....	Ubombo.....	July, 1934	.06	.33	.13	.28	.11	.20	2.4	39.2	1.73	Grass, brown.
		Oct., 1934	.06	.15	.11	.33	.11	.18	3.3	35.7	1.41	Grass, mainly brown.
		Dec., 1934	.096	.27	.16	1.10	.20	.57	6.7	36.2	2.88	Grass, mainly green.
		April, 1935	.083	.29	.14	.88	.10	.29	4.0	35.5	2.44	Grass, mainly green, leafy.
		July, 1935	.085	.35	.14	.54	.05	.24	4.0	37.8	1.93	Grass, mainly brown, leafy.
		Oct., 1935	.11	.23	.29	.72	.55	1.10	4.3	45.4	3.65	Grass, brown, long.
		Feb., 1934	.13	.29	.15	1.74	.18	.64	7.4	36.4	4.06	Grass, mainly green.
		May, 1934	.21	.27	.22	1.32	.17	.59	6.9	37.3	3.61	Grass.
		Aug., 1934	.079	.19	.14	.67	.11	.30	3.6	40.2	1.98	Grass, mainly brown.
		Nov., 1934	.086	.30	.14	.77	.08	.31	3.9	37.1	2.53	Grass.
Mandhla.....	Utombo.....	Jan., 1935	.20	.24	.21	2.40	.43	1.21	10.4	34.1	5.66	Grass, mainly green, leafy.
		May, 1935	.089	.24	.09	.69	.04	.10	4.0	34.8	1.82	Grass, leafy.
		Sept., 1935	.04	.22	.04	.15	.09	.15	2.1	37.9	1.37	Grass, brown.
Quest.....	Utombo.....	Feb., 1934	.13	.29	.15	1.74	.18	.64	7.4	36.4	4.06	Grass, mainly green.
		May, 1934	.21	.27	.22	1.32	.17	.59	6.9	37.3	3.61	Grass.
		Aug., 1934	.079	.19	.14	.67	.11	.30	3.6	40.2	1.98	Grass, mainly brown.
		Nov., 1934	.086	.30	.14	.77	.08	.31	3.9	37.1	2.53	Grass.



## AREA 2 (continued).

Fam.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
H. No. 40.....	Hlabisa.....	Dec., 1933	.21	.47	.19	3.47	.33	.64	11.8	27.7	6.93	Grass, green and bush; mostly grass.	
		Mar., 1934	.17	.26	.17	2.40	.57	1.17	7.5	39.1	5.58	Grass, mainly green, long.	
		June, 1934	.15	.27	.25	1.78	.31	.77	.65	6.5	32.3	4.87	Grass, long.
		Sept., 1934	.054	.23	.22	.47	.12	.21	3.9	34.5	2.21	1.38	Grass, mainly brown.
		Dec., 1934	.13	.15	.11	.33	.08	.09	2.8	39.8	3.5	1.87	Grass, long.
		Mar., 1935	.66	.21	.16	.66	.05	.19	3.3	37.3	3.05	1.57	Grass, mainly green, long.
H. No. 29.....	Hlabisa.....	June, 1935	.076	.29	.08	.41	.03	.11	2.8	40.9	2.65	Grass, brown, long.	
		Jan., 1934	.13	.29	.19	1.89	.39	1.11	6.0	40.2	3.07	Grass.	
		April, 1934	.15	.31	.17	1.19	.11	.41	6.9	35.8	3.24	Grass, mainly green, leafy.	
		July, 1934	.18	.31	.24	.80	.26	.60	4.8	36.1	3.05	Grass, mainly brown, long.	
		Oct., 1934	.073	.17	.19	.54	.20	.39	3.5	38.0	2.23	Grass, brown, long.	
		April, 1935	.13	.25	.15	.86	.28	.42	4.1	37.7	1.19	Grass, mainly brown, long.	
No. H. 13.....	Hlabisa.....	July, 1935	.078	.15	.09	.29	.06	.11	3.1	39.1	3.52	Grass, brown, long.	
		Sept., 1935	.056	.42	.22	.34	.35	.65	3.2	39.3	2.10	Grass, brown, long.	
		Feb., 1934	.13	.19	.13	1.41	.69	.42	5.4	40.7	1.55	Grass, mainly green.	
		May, 1934	.14	.37	.12	.44	.07	.13	3.0	39.1	1.59	Grass, long.	
		Aug., 1934	.078	.23	.11	.30	.08	.11	3.4	36.7	4.11	Grass, brown, long.	
		Nov., 1934	.10	.21	.11	.40	.06	.08	2.2	42.9	2.45	Grass, mainly green, long.	
Pongola No. T.A. 516	Ubombo.....	Feb., 1935	.13	.27	.25	1.69	.21	.43	6.6	35.4	3.94	Grass, mainly brown, long.	
		May, 1935	.12	.28	.17	1.01	.22	.30	3.9	35.1	1.62	Grass, mainly brown, long.	
		Aug., 1935	.074	.26	.11	.22	.65	.09	2.2	37.0	2.50	Grass, mainly green, long.	
		Oct., 1935	.067	.19	.09	.29	.13	.16	3.5	38.2	1.12	Grass, brown, long.	
		Jan., 1934	.10	.30	.22	1.58	.29	.70	6.4	37.9	1.31	Grass, brown.	
		April, 1934	.075	.26	.13	1.02	.18	.34	4.3	40.2	3.94	Grass, mainly green.	
Marala No. T.A. 500	Ubombo.....	July, 1934	.079	.27	.10	.41	.04	.15	5.0	38.8	2.42	Grass, long.	
		Sept., 1934	.12	.14	.21	.70	.25	.48	5.0	—	1.62	Grass, mainly brown, long.	
		Nov., 1934	.071	.23	.10	.70	.04	.24	4.3	40.3	2.50	Grass, mainly brown, long.	
		Feb., 1935	.15	.27	.31	2.02	.69	.80	6.4	38.3	5.82	Grass, mainly green, long.	
		May, 1935	.25	.26	.32	2.36	.56	.61	6.8	37.6	6.16	Grass, long.	
		Aug., 1935	.054	.21	.08	.19	.05	.12	2.2	39.4	1.27	Grass, brown, long.	
Marala No. T.A. 500	Ubombo.....	Feb., 1934	.097	.21	.19	.79	.06	.25	2.4	40.8	2.05	Grass.	
		May, 1934	.047	.38	.10	.47	.05	.29	2.7	44.0	1.79	Grass, long.	
		Aug., 1934	.12	.26	.08	.35	.04	.08	3.3	40.9	1.52	Grass, mainly brown, long.	
		Dec., 1934	.066	.27	.07	.60	.07	.17	4.8	35.6	3.57	Grass, long.	
		Mar., 1935	.12	.56	.23	1.45	.22	.68	5.7	38.5	2.40	Grass, mainly green, long.	
		June, 1935	.08	.40	.24	.89	.02	.27	2.6	40.2	1.53	Grass, long.	
Sept., 1935	.09	.19	.08	.35	.09	.18	1.9	44.1	2.40	Grass, brown, long.			

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 2 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Mseleni No. T.A. 512	Ubombo.....	Mar., 1934	-11	.27	.17	1.19	.57	.75	5.9	41.4	3.39	Grass.
		June, 1934	-18	.37	.19	.84	.18	.28	4.9	39.3	3.04	Grass, mainly green, long.
		Oct., 1934	-18	.14	.23	.58	.45	.89	3.2	44.1	3.00	Grass, brown, long.
		Jan., 1935	-19	.38	.19	1.24	.31	.69	5.2	38.9	3.71	Grass, mainly green, long.
		April, 1935	-06	.39	.35	.87	.05	.22	3.2	33.8	2.75	Grass, mainly brown.
		July, 1935	-17	.31	.22	1.31	.33	.82	7.8	40.9	4.17	Grass, mainly green, long.
		Nov., 1933	-13	.33	.13	.10	.02	.18	8.3	30.8	3.29	Grass, short.
Waterton Estates, Lot No. K. 11	Lower Umfolosi	Feb., 1934	-14	.19	.11	1.38	.35	.62	5.3	38.4	3.60	Grass, mainly green.
		April, 1934	-058	.21	.13	.68	.11	.28	5.0	37.6	2.01	Grass, mainly green.
		May, 1935	-097	.44	.16	.61	.14	.10	4.9	34.3	2.59	Grass, mainly brown, leafy.
		June, 1935	-039	.24	.11	.27	trace	.08	3.1	30.9	1.30	Grass, leafy.
		Sept., 1935	-085	.38	.18	.62	.30	.24	5.0	38.0	3.03	Grass, mainly brown.
		Dec., 1933	-11	.21	.14	1.43	.34	.63	7.1	33.6	3.62	Grass, mainly green, short.
		Mar., 1934	-094	.24	.14	1.14	.22	.39	6.2	35.7	2.91	Grass, mainly green.
Sokulu No. T.A. 615	Lower Umfolosi	May, 1934	-055	.22	.16	.62	.11	.29	4.7	38.8	1.93	Grass.
		Jan., 1934	-11	.26	.15	.98	.23	.36	5.8	35.6	2.84	Grass, short.
		July, 1935	-075	.27	.13	.50	.06	.13	3.7	41.5	1.89	Grass, mainly brown.
		Nov., 1933	-074	.22	.11	.45	.04	.13	5.0	37.5	1.78	Grass, short.
		Feb., 1934	-093	.37	.16	1.04	.03	.24	6.3	37.5	2.53	Grass.
		May, 1934	-052	.22	.13	.57	.01	.13	4.4	37.4	1.82	Grass, leafy.
		Aug., 1934	-036	.22	.10	.41	.01	.05	2.6	36.9	1.22	Grass, mainly brown, leafy.
No. T.A. 614....	Lower Umfolosi	Nov., 1934	-11	.25	.10	1.13	.08	.43	8.4	39.0	2.62	Grass, mainly green.
		Feb., 1935	-074	.18	.11	.83	.04	.12	4.0	39.7	1.78	Grass, green, long.
		May, 1935	-073	.40	.20	.44	.04	.12	4.0	34.3	2.10	Grass, mainly green, leafy.
		Aug., 1935	-052	.16	.07	.35	.04	.09	2.1	46.8	1.18	Grass, brown.
		Dec., 1933	-084	.38	.10	.60	.05	.28	6.0	40.5	2.68	Grass.
		Mar., 1934	-065	.15	.08	.79	.04	.17	7.5	41.5	1.81	Grass, mainly green.
		June, 1934	-087	.19	.10	.47	.03	.12	3.3	38.5	1.37	Grass.
Nkandhla Village	Nkandhla.....	Oct., 1934	-065	.21	.08	.39	.04	.10	4.4	41.4		Grass.
		Dec., 1934	-092	.26	.14	.91	.14	.22	7.5	38.7	1.84	Grass, green, long.
		April, 1935	-077	.26	.13	.69	.09	.15	5.4	37.1	1.92	Grass, green, long.
		July, 1935	-046	.24	.16	.14	.03	.10	2.3	39.2	1.44	Grass, brown.
		Sept., 1935	-052	.30	.11	.19	.04	.07	3.2	38.0	1.41	Grass, brown, leafy.
		Jan., 1934	-12	.27	.15	1.38	.09	.29	9.2	37.0	3.14	Grass, mainly green.
		April, 1934	-083	.19	.12	.79	.04	.17	5.5	40.5	1.86	Grass, mainly green.
Mpandhleni T.A..	Nkandhla.....	July, 1934	-04	.21	.06	.35	.01	.06	4.8	37.1	1.46	Grass.
		Sept., 1934	-044	.20	.09	.11	.05	.04	5.4	38.1	1.07	Grass, mainly brown.
		Jan., 1935	-062	.19	.09	.53	.06	.13	4.5	42.0	1.40	Grass, mainly green, long.
		Mar., 1935	-068	.12	.10	.97	.07	.26	5.1	38.5	2.36	Grass, green, long.
		June, 1935	-05	.19	.09	.17	trace	.08	3.0	38.5	1.16	Grass.
		Oct., 1935	-045	.19	.07	.17	.01	.03	3.6	39.4	1.17	Grass, brown, leafy.

## AREA 2 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Pro-tein.	Crude Fibre.	Solu-ble Ash.	Description of Sample.	
Glen, Marvel.....	Nkandhla.....	Nov., 1933	.21	.38	.12	1.77	.08	.50	10.3	36.9	4.51	Grass, mainly green, leafy.	
		Feb., 1934	.20	.22	.09	1.26	.06	.22	6.8	38.4	2.91	Grass, mainly green.	
		May, 1934	.16	..	.10	1.01	.03	.25	.25	5.0	39.3	2.45	Grass.
		Aug., 1934	.068	.24	.06	.45	.01	.06	.24	2.5	43.3	1.51	Grass, mainly brown.
		Jan., 1935	.22	.27	.14	1.80	.07	.24	.24	8.0	38.0	3.55	Grass, mainly green, leafy.
		Feb., 1935	.25	.30	.19	1.92	.15	.70	.15	7.6	34.6	4.45	Grass, green, long.
		April, 1935	.13	.25	.13	.56	.03	.18	.18	4.3	34.8	2.39	Grass, mainly green, long.
		Aug., 1935	.098	.29	.12	.41	.03	.13	.13	3.0	39.1	1.77	Grass, mainly brown.
Mfongosi.....	Nkandhla.....	Dec., 1933	.21	.40	.18	2.69	.13	.85	15.7	35.5	5.54	Grass, green, leafy.	
		Mar., 1934	.14	.73	.26	.85	.07	.28	.28	9.3	31.5	3.58	Grass, mainly green and hush; mostly grass.
Nhloshane.....	Nkandhla.....	June, 1934	.084	.25	.10	.85	.02	.22	3.6	38.3	2.13	Grass.	
		Sept., 1934	.033	.15	.11	.03	trace	.01	.01	3.1	42.4	0.94	Grass, brown.
		Dec., 1934	.17	.33	.16	1.14	.05	.26	.26	7.3	38.8	2.70	Grass, green.
		Mar., 1935	.23	.32	.17	1.29	.08	.37	.37	7.5	33.3	3.44	Grass, mainly green.
		June, 1935	.14	.41	.31	1.06	.19	.32	.19	7.0	35.6	3.67	Grass, mainly green.
		Sept., 1935	.10	.46	.11	.37	.05	.17	.17	3.1	42.1	1.78	Grass, brown.
		Jan., 1934	.21	.38	.14	1.94	.07	.39	.39	8.3	35.8	4.06	Grass, mainly green, leafy.
		April, 1934	.16	.36	.12	1.09	.12	.29	.29	7.8	35.0	2.68	Grass, mainly green, leafy.
No. T.A. 628....	Mtamzini.....	July, 1934	.12	.34	.15	.59	.05	.23	3.7	37.8	2.02	Grass, mainly brown.	
		Oct., 1934	.29	.32	.25	2.03	.07	.63	10.7	32.6	4.55	Grass, mainly green, leafy.	
		Mar., 1935	.24	.32	.12	.84	.04	.14	.14	6.5	33.8	2.72	Grass, mainly green, leafy.
		May, 1935	.19	.37	.18	1.13	.04	.18	.18	6.7	31.9	3.40	Grass, short.
		July, 1935	.13	.38	.17	.98	.09	.49	.49	5.2	56.0	3.34	Grass, leafy.
		Oct., 1935	.12	.24	.10	.42	.02	.05	.05	3.2	40.5	1.76	Grass, brown.
		Dec., 1933	.072	.39	.13	1.05	.29	.47	.47	4.9	38.9	3.03	Grass, short.
		May, 1934	.048	.23	.18	.59	.18	.34	.34	3.7	37.4	2.25	Grass.
Amatikulu No. T.A. 627	Mtamzini.....	Aug., 1934	.045	.22	.13	.39	.03	.11	3.5	38.1	1.61	Grass, mainly brown.	
		Oct., 1934	.037	.14	.15	.57	.22	.49	4.2	33.1	2.00	Grass.	
		Feb., 1935	.058	.34	.16	.75	.09	.16	.16	4.5	36.7	2.31	Grass, mainly green.
		June, 1934	.043	.15	.07	.27	.04	.07	.07	4.7	39.0	1.16	Grass.
Enkwaleni No. T.A.	Entonjaneni.....	Nov., 1934	.054	.15	.15	.38	.17	.35	3.2	34.7	1.75	Grass.	
		Dec., 1933	.15	.56	.24	2.42	.34	.46	13.2	34.3	5.89	Grass, leafy.	
		Mar., 1934	.083	.18	.08	.90	.07	.18	.18	5.2	33.8	2.31	Grass, mainly green.
		Sept., 1934	.10	.19	.18	.71	.19	.34	.34	7.4	55.2	2.41	Grass, mainly green, leafy.
		May, 1935	.069	.47	.16	.43	.04	.11	.11	4.1	35.2	2.16	Grass, leafy and hush; mostly grass.
Amatikulu No. T.A. 627	Mtamzini.....	June, 1934	.043	.15	.07	.27	.04	.07	4.7	39.0	1.16	Grass.	
		Nov., 1934	.054	.15	.15	.38	.17	.35	3.2	34.7	1.75	Grass.	
Enkwaleni No. T.A.	Entonjaneni.....	Dec., 1933	.15	.56	.24	2.42	.34	.46	13.2	34.3	5.89	Grass, leafy.	
		Mar., 1934	.083	.18	.08	.90	.07	.18	5.2	33.8	2.31	Grass, mainly green.	
Enkwaleni No. T.A.	Entonjaneni.....	Sept., 1934	.10	.19	.18	.71	.19	.34	7.4	55.2	2.41	Grass, mainly green, leafy.	
		May, 1935	.069	.47	.16	.43	.04	.11	4.1	35.2	2.16	Grass, leafy and hush; mostly grass.	
Amatikulu No. T.A. 627	Mtamzini.....	Aug., 1935	.056	.17	.15	.26	.04	.11	2.3	38.3	1.13	Grass, mainly brown.	
		Oct., 1935	.075	.31	.10	.58	.03	.24	5.2	26.0	2.19	Grass, mainly green, leafy.	

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 2 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Mayeni No. T.A.	Entonjaneni...	Jan., 1934	.10	.45	.08	1.06	.10	.26	7.6	45.3	2.56	Grass, green.	
		April, 1934	.095	.11	.06	.71	.04	.28	5.6	44.5	1.76	Grass, mainly green.	
		July, 1934	.04	.16	.11	.36	.03	.20	.20	8.9	39.6	1.30	Grass, mainly brown.
		Oct., 1935	.14	.21	.10	.64	.13	.29	.29	5.6	39.7	2.36	Grass, mainly brown, long.
		Jan., 1935	.075	.24	.11	.64	.06	.20	.20	5.5	38.5	1.79	Grass, green, long.
		Mar., 1935	.065	.44	.09	.61	.04	.46	.18	4.6	41.3	1.83	Grass, mainly green, long.
		July, 1935	.081	.19	.11	.45	.02	.14	.14	3.4	37.3	1.68	Grass, mainly brown.
Bhonkoe No. T.A.	Entonjaneni...	Feb., 1934	.079	.21	.10	.58	.06	.18	4.5	42.3	1.74	Grass, mainly green.	
		May, 1934	.067	.17	.07	.43	.08	.13	3.9	42.1	1.58	Grass.	
		Aug., 1934	.062	.24	.14	.43	.05	.13	.13	4.6	36.9	1.64	Grass, mainly brown.
		Nov., 1934	.086	.20	.10	.99	.08	.25	.25	7.3	39.4	2.38	Grass, green, long.
		Feb., 1935	.062	.22	.11	.66	.08	.18	.18	3.9	40.8	1.79	Grass, mainly green, long.
		June, 1935	.056	.39	.14	.36	trace	.11	.11	3.8	37.3	1.96	Grass, mainly brown, leafy.
Barcow.....	New Hanover..	Oct., 1933	.10	.27	.16	.87	.14	.45	7.8	36.5	2.67	Grass, mainly green.	
		Jan., 1934	.16	.23	.14	1.36	.15	.48	7.6	38.6	3.26	Grass, mainly green.	
		April, 1934	.10	.24	.13	.94	.09	.30	.30	6.8	38.2	2.47	Grass, mainly green.
		July, 1934	.08	.20	.11	.61	.11	.36	.36	5.0	35.6	1.88	Grass, leafy.
		Oct., 1934	.13	.22	.14	1.04	.15	.50	.50	9.0	35.2	2.80	Grass, mainly green, leafy.
		Jan., 1935	.12	.22	.11	1.34	.06	.39	.39	7.4	37.2	2.78	Grass, green.
		April, 1935	.094	.21	.08	.94	.06	.32	.32	5.8	36.4	2.22	Grass, mainly green.
		Oct., 1935	.13	.19	.13	.75	.17	.39	.39	8.2	38.0	2.42	Grass, green, long.
		Nov., 1933	.17	.23	.20	1.46	.36	.59	.59	11.4	34.3	3.87	Grass, mainly green.
		Feb., 1934	.098	.24	.16	1.14	.08	.36	.36	6.5	39.7	2.68	Grass, green.
Sweetwaters.....	New Hanover..	May, 1934	.078	.19	.14	1.16	.07	.26	5.5	36.8	1.96	Grass, mainly green, leafy.	
		Nov., 1934	.11	.27	.17	1.02	.17	.21	8.2	36.9	2.71	Grass, mainly green.	
		Feb., 1935	.11	.24	.14	.90	.08	.21	.21	6.2	34.6	2.59	Grass, green, leafy.
		May, 1935	.08	.25	.13	.63	.05	.09	.09	5.1	35.7	2.02	Grass, mainly green.
		Nov., 1933	.14	.22	.26	1.49	.18	.64	.64	9.9	36.2	3.77	Grass, mainly green.
Fairview.....	New Hanover..	Mar., 1934	.13	.20	.22	1.48	.26	.66	9.3	34.4	3.74	Grass, mainly green.	
		June, 1934	.10	.19	.13	.75	.09	.21	4.2	37.3	2.09	Grass.	
		Dec., 1934	.14	.21	.15	1.21	.19	.41	.41	7.0	37.5	3.11	Grass, mainly green.
		Mar., 1935	.13	.21	.07	.94	.17	.29	.29	6.6	36.5	2.60	Grass, mainly green, leafy.
		June, 1935	.068	.24	.10	.45	.02	.14	.14	3.6	38.1	1.63	Grass, mainly brown.
		Sept., 1935	.19	.20	.14	1.31	.13	.60	.60	13.0	34.6	3.63	Grass, green, leafy.
		Oct., 1933	.21	.31	.22	1.77	.48	.92	.92	10.0	34.4	5.26	Grass, green.
		Jan., 1934	.18	.21	.15	2.06	.12	.57	.57	7.8	40.1	4.40	Grass, mainly green.
		April, 1934	.12	.17	.17	1.77	.17	.32	.32	10.0	36.3	3.82	Grass, leafy.
Waterfall.....	New Hanover..	Aug., 1934	.048	.36	.14	.35	.03	.06	3.1	40.9	1.41	Grass, mainly brown.	
		Oct., 1934	.15	.30	.11	1.62	.06	.34	9.2	39.9	3.05	Grass, green, leafy.	
		Jan., 1935	.095	.16	.12	1.44	.10	.48	.48	4.5	40.2	2.93	Grass, mainly green.
		April, 1935	.13	.26	.14	1.05	.05	.18	.18	5.4	37.2	2.58	Grass, mainly green, leafy.
		Aug., 1935	.11	.21	.12	.68	.06	.15	.15	3.6	40.2	2.06	Grass, mainly brown.

## AREA 2 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Moesrest.....	New Hanover..	Nov., 1933	-14	-25	-16	1-62	-08	-41	11-0	38-3	3-67	Grass, green.
		Feb., 1934	-11	-29	-19	1-49	-40	-39	6-7	38-3	3-44	Grass, mainly green.
		May, 1934	-094	-23	-21	1-00	-06	-38-8	5-5	38-8	2-48	Grass.
		Aug., 1934	-078	-26	-12	-63	-02	-13	6-3	36-1	2-13	Grass, mainly brown.
		Nov., 1934	-21	-44	-29	2-10	-18	-88	10-3	33-2	5-00	Grass, green, leafy.
		Feb., 1935	-093	-24	-15	1-22	-09	-38	6-2	37-4	3-40	Grass, leafy.
		May, 1935	-14	-35	-26	1-58	-06	-38	7-4	35-0	3-64	Grass, mainly green, leafy.
		Oct., 1935	-27	-48	-32	2-72	-38	-62	12-7	33-7	7-27	Grass, green, leafy.
		Dec., 1933	-13	-33	-31	2-16	-21	-78	9-6	32-4	5-00	Grass, mainly green.
		Mar., 1934	-17	-35	-30	2-20	-07	-70	9-5	37-7	5-12	Grass, mainly green.
Smidtshoek.....	New Hanover..	June, 1934	-11	-34	-26	1-51	-17	-44	10-1	29-9	3-83	Grass, mainly green, leafy.
		Oct., 1934	-18	-40	-27	2-02	-17	-78	12-3	34-2	5-14	Grass, mainly green, leafy.
		Dec., 1934	-22	-97	-24	3-51	-23	-79	8-8	31-7	7-02	Grass, mainly green, leafy.
		Mar., 1935	-18	-81	-18	2-35	-12	-57	10-3	33-9	4-97	Grass, mainly green, leafy and bush; mostly grass.
		Sept., 1935	-12	-36	-23	1-55	-08	-36	8-5	33-3	5-22	Grass, leafy.
		Oct., 1933	-15	-16	-14	1-88	-21	-98	8-3	34-4	4-20	Grass, mainly green.
		Jan., 1934	-088	-14	-14	-92	-20	-50	7-3	37-4	2-46	Grass, mainly green.
		April, 1934	-068	-16	-12	-52	-03	-15	5-5	39-7	1-37	Grass, mainly green, long.
		July, 1934	-076	-29	-19	-35	-07	-07	5-5	39-3	1-93	Grass, brown.
		Oct., 1934	-23	-25	-18	2-35	-12	-71	13-7	32-7	4-90	Grass, green.
Kranskop No. 1..	Kranskop.....	Jan., 1935	-22	-23	-22	2-19	-20	-74	8-6	40-0	4-54	Grass, mainly green, long.
		April, 1935	-17	-31	-24	2-04	-24	-59	6-5	37-4	4-47	Grass, green, long.
		Nov., 1933	-18	-62	-32	2-11	-25	-94	16-5	28-4	6-00	Grass, mainly green, leafy and bush.
		Feb., 1934	-092	-33	-16	1-43	-36	-53	8-1	38-9	3-69	Grass, green.
		May, 1934	-042	-41	-22	1-04	-10	-50	6-4	39-5	3-10	Grass, long and bush; mostly grass.
		Aug., 1934	-073	-29	-15	-46	-09	-25	5-0	38-7	1-87	Grass, mainly brown, long and bush; mostly grass.
		Nov., 1934	-086	-29	-14	1-55	-16	-49	7-1	39-1	3-20	Grass, mainly green, long.
		Feb., 1935	-07	-23	-09	-85	-10	-17	6-5	41-0	2-05	Grass, green, long.
		May, 1935	-13	-41	-25	1-87	-35	-50	9-5	35-2	4-34	Grass, green.
		Jan., 1934	-15	-21	-19	1-98	-07	-53	8-3	37-0	3-82	Grass, mainly green.
Doornhoek.....	Kranskop.....	Mar., 1934	-13	-23	-13	1-05	-07	-27	6-8	39-8	2-46	Grass, green, long.
		June, 1934	-072	-39	-21	-62	-05	-20	7-9	36-9	2-68	Grass, mainly green, long.
		Sept., 1934	-057	-22	-06	-31	-03	-08	4-8	38-2	1-39	Grass, mainly brown.
		Dec., 1934	-16	-25	-08	1-10	-14	-25	7-3	37-7	2-74	Grass, mainly green, long.
		Mar., 1935	-14	-25	-09	1-24	-08	-27	7-4	39-9	2-90	Grass, green.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 2 (continued).

Farm.	District.	Date.	P.	Cu.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Stonehege.....	Umvoti.....	Nov., 1933	.14	.29	.16	1.28	.03	.76	10.7	33.3	3.04	Grass, mainly green, short.
		Feb., 1934	.10	.76	.18	1.13	.03	.22	7.0	34.1	2.87	Grass, green, short.
		May, 1934	.06	.31	.18	.60	.01	.16	.57	34.9	2.00	Grass, leafy.
		Aug., 1934	.06	.26	.10	.20	.01	.03	2.8	38.2	1.27	Grass, brown, leafy.
		Nov., 1934	.14	.33	.14	1.42	trace	.31	10.6	31.8	2.90	Grass, green, leafy.
Franklin.....	Umvoti.....	Feb., 1935	.11	.39	.15	.85	.04	.10	5.8	35.1	2.40	Grass, green, short.
		May, 1935	.18	.35	.19	1.05	.03	.24	7.4	32.4	2.86	Grass, mainly green, leafy.
		Dec., 1933	.088	.22	.15	.90	.02	.29	7.8	33.8	3.09	Grass, mainly green, short.
		Mar., 1934	.10	.42	.15	.82	.02	.19	7.3	33.1	2.70	Grass, mainly green, short.
		June, 1934	.05	.29	.14	.48	.01	.15	3.7	35.3	1.67	Grass, mainly brown, leafy.
Umvoti Heights..	Umvoti.....	Oct., 1934	.073	.28	.08	.40	.03	.10	3.9	37.8	1.56	Grass, mainly brown, leafy.
		Dec., 1934	.14	.44	.15	.95	.02	.20	8.6	33.8	2.55	Grass, green, leafy.
		Mar., 1935	.13	.41	.09	1.10	.02	.23	7.3	33.7	2.66	Grass, green, short.
		June, 1935	.077	.29	.07	.34	.01	.08	3.0	37.6	1.54	Grass, brown, leafy.
		Jan., 1934	.15	.28	.23	1.12	.24	.79	11.5	30.4	4.70	Grass, green, short.
De Rust.....	Umvoti.....	July, 1934	.04	.20	.10	.23	.01	.08	3.2	34.2	1.26	Grass, brown, leafy.
		Oct., 1934	.11	.20	.14	.95	.02	.20	6.8	32.3	2.12	Grass, green, leafy.
		Jan., 1935	.11	.30	.16	.90	.03	.23	7.4	35.6	2.23	Grass, mainly green, leafy.
		April, 1935	.12	.25	.11	.77	.02	.12	6.6	31.1	1.94	Grass, green, short.
		Nov., 1933	.14	.23	.10	.66	.05	.21	9.1	34.8	2.14	Grass, mainly green.
Craiglands.....	Umvoti.....	Feb., 1934	.20	.27	.16	2.13	.06	.59	12.2	31.8	4.74	Grass, green, short.
		May, 1934	.063	.40	.10	.57	.03	.12	3.6	41.8	1.97	Grass, long.
		Aug., 1934	.057	.27	.09	.16	.01	.02	2.0	36.8	0.92	Grass, brown, leafy.
		Nov., 1934	.13	.26	.17	2.04	.08	.44	11.3	30.0	3.80	Grass, green.
		Feb., 1935	.15	.27	.12	1.01	.04	.17	6.4	38.5	2.30	Grass, green, leafy.
Aangelegen.....	Umvoti.....	May, 1935	.089	.25	.08	.72	.04	.08	4.4	40.2	1.82	Grass, mainly green.
		Aug., 1935	.046	.33	.12	.27	.06	.12	2.1	39.2	2.14	Grass, brown, leafy.
		Dec., 1933	.11	.34	.12	1.19	.13	.40	11.8	35.9	2.74	Grass, green, leafy.
		Mar., 1934	.087	.23	.14	.94	.02	.20	7.3	36.2	2.19	Grass, green, leafy.
		June, 1934	.10	.30	.12	.64	.01	.14	3.6	38.1	1.83	Grass, mainly brown.
Aangelegen.....	Umvoti.....	Sept., 1934	.10	.30	.08	.66	.02	.14	—	36.9	1.97	Grass.
		Dec., 1934	.094	.29	.13	1.12	.05	.31	5.2	37.7	2.43	Grass, green, long.
		Mar., 1935	.09	.43	.14	1.00	.02	.18	6.0	33.7	2.58	Grass, green, leafy.
		June, 1935	.06	.45	.13	.32	trace	.13	2.4	36.2	1.91	Grass, mainly brown, leafy.
		Sept., 1935	.056	.26	.08	.30	.03	.13	4.0	36.6	1.47	Grass, brown.
Aangelegen.....	Umvoti.....	Jan., 1934	.26	.45	.41	3.75	.16	1.80	7.2	34.4	8.82	Grass, mainly green, short.
		April, 1934	.16	.51	.28	1.46	.20	.67	8.0	33.7	4.57	Grass, mainly green, leafy.
		July, 1934	.16	.60	.25	.63	.33	.37	5.4	37.4	3.38	Grass, brown.
		Oct., 1934	.26	.50	.33	3.37	.36	1.20	10.3	31.7	6.56	Grass, green.
		Jan., 1935	.20	.39	.32	2.67	.33	1.34	8.7	35.0	6.20	Grass, green.
Aangelegen.....	Umvoti.....	April, 1935	.12	.62	.11	.70	.02	.13	5.1	32.0	2.58	Grass, green.
		July, 1935	.073	.47	.13	.62	.02	.14	2.8	40.4	2.95	Grass, brown.
		Oct., 1935	.13	.46	.09	.37	.02	.07	3.7	38.8	2.20	Grass, brown, long.

## AREA 2 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Killarney Water Works	Camperdown...	Feb., 1934	.20	.95	.44	2.63	.23	.52	15.9	26.0	8.68	Grass, mainly green and bush; mostly bush.	
		May, 1934	.11	.31	.27	2.17	.73	.90	11.0	37.1	5.20	Grass, mainly green.	
		Aug., 1934	.11	.26	.10	.43	.04	.09	.09	5.9	37.1	1.68	Grass, mainly brown.
		Nov., 1934	.10	.36	.11	.98	.13	.27	.27	9.7	41.3	2.43	Grass, green.
		Feb., 1935	.096	.23	.12	.97	.17	.28	.28	7.1	37.7	2.30	Grass, green.
		May, 1935	.12	.19	.13	.95	.18	.32	.32	6.1	35.1	2.50	Grass, mainly green, leafy.
		Aug., 1935	.044	.16	.65	.13	.02	.04	.04	2.5	43.3	0.81	Grass, brown, long.
		Dec., 1933	.22	.35	.23	2.97	.17	.70	.70	14.8	34.1	6.28	Grass, mainly green, short.
Melbourne.....	Camperdown...	Mar., 1934	.19	.71	.47	2.00	.08	.45	12.5	33.3	6.07	Grass, mainly green and bush; mostly grass.	
		June, 1934	.19	.58	.24	1.53	.20	.55	.55	10.5	25.3	4.10	Grass, green.
		Sept., 1934	.17	.50	.17	.70	.08	.30	.30	12.4	34.3	2.93	Grass, mainly green, leafy.
		Mar., 1935	.10	.28	.14	.81	.06	.20	.20	6.0	35.7	1.97	Grass, green, leafy.
		June, 1935	.08	.23	.11	.59	trace	.11	.11	4.3	35.6	1.86	Grass, mainly brown, short.
		Sept., 1935	.16	.32	.14	1.11	.11	.39	.39	10.6	34.4	2.96	Grass, mainly green, leafy.
		Jan., 1934	.19	.40	.29	2.17	.53	.72	.72	10.9	34.8	5.80	Grass, green and bush; mostly grass.
		April, 1934	.21	.26	.18	1.64	.09	.47	.47	9.9	36.7	3.65	Grass, mainly green.
		July, 1934	.18	.57	.12	1.19	.10	.33	.33	9.5	36.0	3.42	Grass, mainly green.
		Oct., 1934	.20	.37	.08	1.20	.16	.35	.35	11.4	31.8	3.41	Grass, green, leafy.
Marianhill.....	Pinetown.....	April, 1935	.09	.29	.13	.94	.07	.28	5.8	36.5	2.53	Grass, green, leafy.	
		Aug., 1935	.07	.25	.11	.52	.05	.19	.19	3.6	38.7	1.58	Grass, mainly brown, short.
		Nov., 1933	.18	.19	.11	1.23	.09	.28	.28	10.6	38.9	2.87	Grass, mainly green.
		Feb., 1934	.11	.20	.15	1.25	.12	.33	.33	7.6	41.6	2.91	Grass, mainly green.
		Aug., 1934	.12	.26	.14	1.29	.12	.23	.23	6.3	37.7	2.40	Grass.
		Nov., 1934	.15	.23	.09	1.39	.20	.47	.47	8.4	38.5	3.18	Grass, leafy.
		Feb., 1935	.17	.21	.07	1.33	.17	.52	.52	6.3	41.8	3.17	Grass, mainly green.
		May, 1935	.15	.30	.08	.92	.23	.24	.24	6.9	33.7	2.90	Grass.
Aug., 1935	.097	.29	.12	.58	.10	.20	.20	4.3	38.4	1.78	Grass, mainly brown, leafy.		
Glenlennan.....	Pinetown.....	Dec., 1933	.19	.17	.11	1.33	.15	.42	9.4	33.4	3.06	Grass, green.	
		Mar., 1934	.082	.27	.11	.87	.05	.14	.14	5.6	35.8	2.06	Grass.
		June, 1934	.27	.55	.48	2.10	.52	1.32	1.32	12.3	36.1	6.78	Grass, mainly green, leafy.
		Sept., 1934	.19	.42	.29	1.59	.29	.88	.88	8.2	34.0	4.43	Grass, mainly green, leafy.
		Dec., 1934	.26	.41	.32	1.65	.22	.66	.66	7.5	38.3	4.43	Grass, mainly green, leafy.
		Mar., 1935	.22	.32	.14	1.90	.22	.89	.89	6.7	40.0	4.55	Grass, mainly green, leafy.
		June, 1935	.29	.35	.34	1.05	.19	.51	.51	7.2	37.5	4.12	Grass, mainly green.
		Sept., 1935	.20	.26	.13	1.19	.23	.56	.56	8.6	39.9	3.45	Grass, green, long.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 2 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Northdene.....	Pinetown.....	Jan., 1934	.078	.28	.20	2.69	.46	.79	14.1	34.2	6.11	Grass, mainly green, leafy.
		April, 1934	.12	.35	.23	1.45	.41	.78	9.5	38.2	4.21	Grass.
		July, 1934	.15	.43	.31	1.99	.44	1.00	11.6	32.0	5.42	Grass, mainly green.
		Oct., 1934	.12	.36	.22	.60	.47	.91	7.7	37.6	4.60	Grass, green, long.
		Jan., 1935	.16	.25	.18	2.04	.40	.73	10.5	36.7	4.54	Grass, green, long.
		April, 1935	.13	.27	.14	.95	.21	.55	6.4	40.0	2.96	Grass, green, long.
		July, 1935	.085	.30	.21	.93	.20	.46	7.2	35.8	3.7	Grass, mainly green, leafy.
		Oct., 1935	.16	.35	.18	1.78	.24	.60	10.2	34.3	4.31	Grass, green, long.
		Nov., 1933	.17	.25	.20	1.69	.30	.69	11.3	34.4	4.66	Grass, mainly green, leafy.
		Feb., 1934	.19	.33	.19	2.28	.39	.96	8.7	38.7	6.08	Grass, leafy.
Coedmore.....	Durban.....	May, 1934	.13	.24	.19	1.36	.35	.64	6.9	37.9	3.73	Grass.
		Aug., 1934	.17	.28	.18	1.51	.26	.47	9.3	37.6	3.78	Grass, mainly green, leafy.
		Nov., 1934	.15	.32	.14	1.19	.25	.62	8.7	34.9	3.39	Grass, mainly green.
		Feb., 1935	.16	.38	.17	1.57	.51	1.15	9.4	38.8	4.91	Grass, green and bush.
		May, 1935	.07	.18	.08	.69	.11	.23	5.1	39.8	1.90	Grass.
		Sept., 1935	.16	.46	.25	1.67	.33	1.18	8.5	35.5	5.16	Grass, green, leafy.
		Mar., 1934	.11	.31	.22	1.61	.28	.72	5.5	32.5	4.25	Grass.
		June, 1934	.20	.57	.31	1.55	.39	.79	10.0	31.4	5.11	Grass, mainly green and bush ; mostly grass.
		Sept., 1934	.14	.66	.28	1.65	.36	.67	11.3	33.7	4.73	Grass, leafy and bush.
Wansbeck.....	Durban.....	Jan., 1935	.20	.48	.26	2.33	.34	.87	10.1	34.3	5.76	Grass, leafy and bush ; mostly grass.
		Mar., 1935	.11	.38	.11	1.21	.20	.46	8.7	33.8	3.61	Grass, green and bush.
		Aug., 1935	.15	.38	.32	1.63	.21	.67	9.8	34.3	4.38	Grass, mainly green and bush ; mostly grass.
		Jan., 1934	.36	.73	.50	3.43	.52	.69	16.8	32.4	9.21	Grass and bush.
		April, 1934	.31	.72	.47	2.75	.39	.80	16.1	32.5	7.72	Grass and bush.
		July, 1934	.31	1.04	.39	2.45	.30	.55	19.0	25.2	7.68	Grass, and bush ; mostly bush.
		Oct., 1934	.22	.70	.33	2.22	.43	.74	14.8	31.3	6.70	Grass, mainly green and bush.
		Jan., 1935	.27	.57	.35	3.28	.27	.93	15.0	32.7	8.15	Grass, mainly green and bush ; mostly grass.
		April, 1935	.096	.80	.35	2.20	.43	.75	13.5	32.3	6.82	Grass, brown and bush.
		July, 1935	.22	.88	.36	2.26	.31	.69	14.8	32.1	6.94	Grass and bush.
Woodville.....	Durban.....	Oct., 1935	.30	.45	.29	2.48	.26	.76	17.7	35.8	6.18	Grass, green and bush.
		Nov., 1933	.13	.32	.22	1.47	.16	.46	10.0	36.9	3.86	Grass, mainly green.
		Feb., 1934	.068	.20	.10	1.05	.05	.21	4.8	41.6	2.17	Grass, mainly green.
		May, 1934	.062	.20	.12	.61	.03	.14	4.7	36.3	1.80	Grass, mainly green.
		Aug., 1934	.046	.17	.06	.43	.02	.14	4.4	42.6	1.25	Grass, mainly brown.
		Nov., 1934	.036	.25	.15	1.30	.06	.33	6.1	39.7	2.36	Grass.
		Feb., 1935	.067	.23	.08	.82	.06	.18	4.6	39.0	2.09	Grass, green, long.
		May, 1935	.068	.31	.15	.63	.05	.10	4.1	34.8	2.06	Grass, mainly green, long.
		Aug., 1935	.063	.24	.12	.54	.06	.19	3.6	37.9	1.82	Grass, mainly brown, leafy.
		Mount Albert.....	Lower Tugela...	Nov., 1933	.13	.32	.22	1.47	.16	.46	10.0	36.9
Feb., 1934	.068			.20	.10	1.05	.05	.21	4.8	41.6	2.17	Grass, mainly green.
May, 1934	.062			.20	.12	.61	.03	.14	4.7	36.3	1.80	Grass, mainly green.



## AREA 2 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Riverside . . . . .	Lower Tugela . . . . .	Dec., 1933	.12	.18	.19	1.89	.36	.94	7.4	37.6	5.82	Grass, green.
		Mar., 1934	.089	.18	.15	.90	.15	.34	4.8	39.3	2.18	Grass, mainly green.
		June, 1934	.067	.22	.13	.70	.12	.41	4.6	36.5	2.16	Grass.
		Sept., 1934	.13	.19	.18	.90	.15	.39	6.5	36.5	2.56	Grass, green.
		Dec., 1934	.12	.19	.15	1.46	.20	.63	6.9	36.3	3.19	Grass, green.
		Mar., 1935	.074	.22	.07	.91	.08	.14	5.4	38.9	2.28	Grass, mainly green, long.
		June, 1935	.093	.28	.13	.72	.05	.41	4.0	40.1	2.41	Grass.
		Sept., 1935	.075	.20	.12	.83	.17	.43	5.7	35.3	2.62	Grass, mainly brown, leafy.
		Jan., 1934	.16	.22	.16	1.95	.51	.99	8.6	39.5	4.92	Grass, mainly green.
April, 1934	.19	.26	.11	1.59	.19	.70	8.0	38.6	3.62	Grass, mainly green.		
July, 1934	.19	.35	.13	.81	.16	.52	4.9	37.7	2.86	Grass, mainly brown.		
Oct., 1934	.11	.30	.11	.77	.20	.56	5.3	33.5	2.73	Grass, mainly green.		
Jan., 1935	.10	.21	.14	1.49	.19	.80	7.0	35.8	3.37	Grass, green.		
April, 1935	.14	.35	.14	1.17	.20	.52	6.0	36.2	3.20	Grass.		
July, 1935	.07	.22	.15	.58	.03	.29	4.9	37.8	1.96	Grass, leafy.		
Oct., 1935	.14	.19	.15	1.19	.18	.62	7.6	38.0	3.26	Grass, green.		
Lutuli No. T.A.489	Ndwedwe . . . . .	Nov., 1933	.05	.14	.08	.44	.04	.14	5.9	42.6	1.63	Grass, short.
		Feb., 1934	.085	.13	.07	.87	.05	.23	5.6	43.3	1.97	Grass, long.
		May, 1934	.094	.14	.06	.58	.03	.13	5.1	38.9	1.42	Grass, mainly green, long.
		Aug., 1934	.052	.15	.07	.33	.01	.05	4.9	40.4	1.23	Grass, mainly green, long.
		Nov., 1934	.05	.17	.05	.39	trace	.14	5.0	41.9	1.25	Grass, mainly green, long.
		Feb., 1935	.093	.16	.15	1.35	.15	.25	6.2	40.4	2.93	Grass, green, long.
		May, 1935	.11	.29	.19	1.41	.34	.54	7.1	37.4	3.64	Grass, mainly green.
		Aug., 1935	.068	.14	.05	.42	.04	.13	3.4	43.1	0.94	Grass, long.
Nozandha T.A. 49	Ndwedwe . . . . .	Dec., 1933	.073	.17	.07	.61	.04	.10	4.8	41.2	1.83	Grass.
		Mar., 1934	.044	.14	.05	.37	.05	.09	4.5	42.3	1.11	Grass.
		June, 1934	.035	.17	.07	.25	.03	.08	3.9	39.7	1.24	Grass, long.
		Sept., 1934	.051	.12	.03	.18	.03	.04	3.7	41.4	1.00	Grass, mainly brown, long.
		Dec., 1934	.064	.14	.05	.46	.03	.10	5.0	37.6	1.46	Grass, green.
		Mar., 1935	.075	.20	.06	.59	.05	.12	5.2	38.4	1.94	Grass, mainly green.
		June, 1935	.052	.18	.04	.29	trace	.05	3.7	42.7	1.16	Grass, mainly green.
		Sept., 1935	.04	.15	.07	.19	.04	.11	3.4	43.9	1.08	Grass, mainly brown, long.
Msunduze . . . . .	Ndwedwe . . . . .	Jan., 1934	.076	.13	.08	.65	.04	.16	4.3	44.9	1.67	Grass, mainly green, long.
		April, 1934	.052	.11	.06	.43	.04	.10	4.5	43.4	1.24	Grass, mainly green, long.
		July, 1934	.06	.22	.11	.29	.03	.08	4.1	37.2	1.53	Grass.
		Oct., 1934	.042	.19	.07	.22	.04	.08	3.9	39.1	—	Grass, mainly green, long.
		Jan., 1935	.08	.13	.07	.69	.06	.10	5.7	39.6	1.48	Grass, green, long.
		April, 1935	.06	.13	.07	.32	.19	.11	4.2	41.7	1.30	Grass, green, long.
		July, 1935	.038	.21	.07	.22	.05	.10	3.2	40.6	2.41	Grass, mainly brown, long.
		Oct., 1935	.043	.13	.03	.18	.01	.02	3.8	40.2	0.78	Grass, mainly green, long.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 2 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Rydalvale.....	Inanda.....	Nov., 1933	.17	.32	.18	1.70	.23	.62	9.3	36.6	4.23	Grass, mainly green, leafy.	
		Feb., 1934	.18	.21	.13	1.78	.23	.69	7.4	40.2	4.20	Grass, mainly green.	
		June, 1934	.17	.28	.12	1.04	.09	.37	.59	5.6	36.5	2.88	Grass, long.
		Nov., 1934	.19	.22	.13	1.67	.15	.59	.60	9.3	—	3.86	Grass, mainly green, long.
		Dec., 1934	.18	.29	.14	1.62	.45	.62	.49	12.7	34.9	4.26	Grass, mainly green.
		April, 1935	.24	.28	.14	1.42	.14	.49	.72	7.1	38.4	3.63	Grass, green.
		July, 1935	.17	.36	.29	1.45	.21	.72	.60	11.0	37.1	4.41	Grass, green, leafy.
		Sept., 1935	.21	.47	.18	1.42	.29	.60	.60	13.5	37.3	4.44	Grass, green, leafy.
		Dec., 1933	.10	.20	.13	1.13	.09	.42	.42	6.2	38.6	2.72	Grass.
		Mar., 1934	.12	.19	.13	1.21	.14	.56	.56	5.2	39.4	2.82	Grass, mainly green.
Richmond.....	Inanda.....	June, 1934	.08	.27	.15	1.06	.13	.62	4.9	38.3	2.86	Grass, long.	
		Nov., 1934	.087	.21	.11	.74	.11	.30	4.7	38.5	2.05	Grass, long.	
		Jan., 1935	.088	.18	.10	1.34	.14	.52	.18	8.4	39.4	2.90	Grass, mainly green, long.
		April, 1935	.096	.25	.06	1.02	.09	.18	.49	4.9	36.6	2.67	Grass, mainly green, long.
		July, 1935	.15	.38	.20	.94	.34	.10	.10	8.2	35.8	3.95	Grass, mainly green, leafy.
		Jan., 1934	.13	.18	.14	1.26	.14	.40	.40	5.8	40.7	2.98	Grass, mainly green, long.
		April, 1934	.20	.25	.13	1.47	.17	.38	.38	7.9	37.3	3.40	Grass, mainly green.
		July, 1934	.06	.19	.18	.88	.18	.74	.74	4.4	40.3	2.80	Grass, long.
		Nov., 1934	.076	.17	.11	.94	.08	.39	.39	4.4	41.3	1.80	Grass, long.
		Feb., 1935	.24	.19	.11	.98	.31	.47	.47	4.7	40.3	3.64	Grass, mainly green, long.
Piesang River....	Inanda.....	May, 1935	.26	.27	.19	.68	.24	.31	5.3	37.7	3.01	Grass, long.	
		Aug., 1935	.12	.21	.16	.69	.12	.38	.38	5.0	38.7	1.92	Grass, long.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Arden.....	Richmond.....	Dec., 1933	.11	.15	.10	.88	.05	.20	7.4	37.9	1.88	Grass, green.
		Mar., 1934	.084	.15	.09	.65	.04	.17	3.6	42.0	1.57	Grass, green, long.
		June, 1934	.075	.13	.12	.27	.03	.06	4.6	37.1	1.21	Grass, long.
		Sept., 1934	.083	.23	.09	.76	.04	.19	7.0	38.5	1.90	Grass, green.
		Dec., 1934	.15	.09	.09	.99	.18	.39	7.2	40.9	2.62	Grass, green, long.
		Mar., 1935	.17	.26	.12	1.37	.03	.33	7.4	38.4	2.99	Grass, mainly green, leafy.
		June, 1935	.13	.27	.09	1.08	trace	.25	5.2	39.7	2.41	Grass, mainly green.
		Sept., 1935	.17	.32	.12	1.29	.18	.49	13.5	36.8	3.23	Grass, green, leafy.
		Jan., 1934	.14	.16	.10	1.42	.08	.24	11.2	39.7	3.10	Grass, green.
Backworth.....	Richmond.....	April, 1934	.074	.18	.10	.63	.09	.23	4.6	39.8	1.58	Grass, mainly green, long.
		July, 1934	.036	.21	.07	.27	.01	.13	3.8	39.7	1.15	Grass, mainly brown, long.
		Oct., 1934	.13	.24	.10	.98	.05	.22	10.3	35.5	2.61	Grass, green.
		Jan., 1935	.14	.17	.06	1.10	.04	.21	5.3	39.7	2.27	Grass, green, long.
		April, 1935	.085	.25	.15	.61	.06	.16	4.5	38.6	1.78	Grass, mainly green.
		July, 1935	.06	.16	.05	.45	.02	.11	4.2	39.9	1.31	Grass, long.
		Oct., 1935	.13	.18	.05	.66	.05	.28	9.0	40.5	2.23	Grass, green, leafy.
		Nov., 1933	.10	.25	.13	1.28	.08	.34	9.6	36.5	2.96	Grass, green.
		Feb., 1934	.11	.18	.10	1.01	.04	.20	5.5	45.1	2.20	Grass, green, long.
		May, 1934	.064	.24	.13	.62	.04	.25	6.1	40.0	1.72	Grass.
Ismont.....	Richmond.....	Aug., 1934	.06	.19	.09	.31	.01	.08	3.3	38.5	1.38	Grass, mainly brown, long.
		Nov., 1934	.13	.23	.11	1.48	.05	.37	9.1	40.3	3.10	Grass, green, long.
		Feb., 1935	.17	.29	.14	1.38	.09	.34	7.8	36.5	3.33	Grass, green, long.
		May, 1935	.083	.30	.17	.73	.07	.18	4.7	36.1	2.31	Grass, mainly green.
		Aug., 1935	.088	.25	.11	.85	.10	.43	4.6	40.4	2.07	Grass, long.
		Dec., 1933	.08	.25	.10	1.41	.07	.48	7.2	36.7	3.58	Grass, mainly green.
		Mar., 1934	.13	.24	.15	1.71	.05	.59	6.4	36.6	3.72	Grass, mainly green.
		June, 1934	.12	.37	.28	1.29	.09	.61	7.1	31.4	3.88	Grass, leafy.
		Aug., 1934	.047	.21	.11	.18	.01	.03	4.3	38.5	1.32	Grass, brown.
		Aug., 1935	.06	.22	.06	.39	.02	.04	4.0	39.0	1.65	Grass, mainly brown.
Glen App.....	Richmond.....	Sept., 1935	.07	.25	.08	.38	.02	.11	2.8	40.8	1.53	Grass, mainly green.
		Dec., 1933	.08	.25	.10	1.41	.07	.48	7.2	36.7	3.58	Grass, mainly green.
		Mar., 1934	.13	.24	.15	1.71	.05	.59	6.4	36.6	3.72	Grass, mainly green.
		June, 1934	.12	.37	.28	1.29	.09	.61	7.1	31.4	3.88	Grass, leafy.
		Aug., 1934	.047	.21	.11	.18	.01	.03	4.3	38.5	1.32	Grass, brown.
Lynmouth.....	Richmond.....	Aug., 1935	.06	.22	.06	.39	.02	.04	4.0	39.0	1.65	Grass, mainly brown.
		Sept., 1935	.12	.25	.13	.85	.09	.30	6.4	37.4	2.32	Grass, mainly brown.
		Jan., 1934	.23	.29	.29	2.66	.08	.75	12.9	33.8	5.80	Grass, mainly green.
		April, 1934	.15	.22	.16	1.52	.08	.47	6.2	37.0	3.38	Grass, mainly green.
		Aug., 1934	.054	.18	.09	.27	.02	.06	3.9	43.8	1.16	Grass, mainly brown, long.
The Hill.....	Richmond.....	Oct., 1934	.11	.25	.10	.46	.15	.18	6.6	40.2	2.05	Grass, mainly green, long.
		Aug., 1935	.12	.25	.13	.85	.09	.30	6.4	37.4	2.32	Grass, mainly brown.
		Feb., 1934	.092	.24	.18	.91	.13	.48	7.6	39.2	2.41	Grass, green, long.
		May, 1934	.075	.19	.14	.68	.15	.42	5.5	38.6	2.27	Grass.
		Sept., 1934	.11	.24	.14	1.18	.17	.50	13.9	33.3	2.94	Grass, mainly green.
May, 1935	.076	.24	.09	.68	.08	.18	6.9	36.5	1.73	Grass, mainly green.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 3 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Woolwash.....	Pietermaritzburg	Jan., 1934	.13	.21	.14	1.72	.12	.32	7.8	38.1	4.05	Grass, mainly green.
		April, 1934	.11	.21	.10	1.06	.04	.18	5.8	40.2	2.18	Grass, long.
		Nov., 1934	.11	.26	.14	.86	.07	.28	9.1	39.4	2.28	Grass, green, long
		Feb., 1935	.11	.31	.11	.93	.12	.20	6.3	39.8	2.25	Grass, green, long.
		May, 1935	.10	.26	.12	1.04	.04	.18	4.8	37.2	2.41	Grass, long.
		Aug., 1935	.084	.41	.09	.29	.05	.16	2.4	40.9	1.67	Grass, mainly brown, leafy.
		Sept., 1935	.063	.25	.04	.33	.03	.11	3.9	39.4	1.45	Grass.
		Feb., 1934	.20	.23	.13	1.41	.07	.44	6.9	42.7	3.43	Grass, mainly green.
		June, 1934	.12	.30	.19	.77	.15	.47	3.5	37.8	3.88	Grass, long.
Kingston.....	Pietermaritzburg	Dec., 1934	.15	.22	.16	1.75	.14	.53	7.7	37.4	3.63	Grass, mainly green, long.
		Mar., 1935	.16	.24	.12	1.12	.06	.30	5.1	38.6	2.88	Grass, green, long.
		Mar., 1934	.094	.24	.16	1.12	.03	.25	5.6	38.6	2.46	Grass, mainly green.
Belfast.....	Pietermaritzburg	June, 1934	.055	.25	.15	.59	.07	.25	3.7	38.3	2.10	Grass, mainly brown.
		Jan., 1935	.11	.27	.20	.93	.05	.22	6.3	39.1	2.28	Grass, green, long.
		April, 1935	.09	.29	.15	.78	.15	.18	5.0	36.2	2.18	Grass, mainly green, long.
		July, 1935	.098	.25	.08	.42	.03	.15	3.3	40.8	1.77	Grass, mainly brown.
		Oct., 1935	.062	.22	.06	.19	.02	.03	3.2	39.9	1.00	Grass, brown, long.
		Nov., 1933	.08	.23	.14	.80	.03	.21	5.2	36.7	2.15	Grass.
		Feb., 1934	.14	.26	.17	1.50	.08	.44	5.7	37.9	3.05	Grass, mainly green.
Rosedene.....	Ixopo.....	May, 1934	.07	.20	.17	1.07	.02	.41	4.4	35.9	2.69	Grass, leafy.
		Aug., 1934	.05	.28	.08	.25	.01	.07	3.4	37.2	1.44	Grass, mainly brown, leafy.
		Nov., 1934	.13	.22	.20	1.35	.09	.70	8.8	35.2	3.77	Grass, green, leafy.
		Feb., 1935	.18	.22	.11	2.00	.13	.38	8.1	37.4	4.01	Grass, green, leafy.
		May, 1935	.07	.30	.10	.42	.04	.07	3.6	34.4	1.71	Grass.
		Aug., 1935	.053	.30	.15	.21	.03	.09	2.6	34.9	1.67	Grass, mainly brown, leafy.
		Dec., 1933	.072	.18	.09	.89	.05	.36	7.0	37.4	2.27	Grass, mainly green.
		Mar., 1934	.08	.17	.12	.66	.02	.19	6.3	37.3	2.28	Grass, short.
		June, 1934	.033	.24	.16	—	.01	.07	3.0	35.8	1.63	Grass, short.
		Sept., 1934	.06	.23	.08	.28	.13	.14	3.8	39.9	1.09	Grass, mainly brown.
Chatwell.....	Ixopo.....	Oct., 1934	.13	.19	.06	1.48	.08	.35	10.8	36.1	3.05	Grass, green.
		Mar., 1935	.17	.24	.12	.97	.02	.21	4.1	35.7	2.91	Grass, mainly green, leafy.
		June, 1935	.053	.20	.12	.25	trace	.06	3.6	36.9	1.64	Grass, brown.
		Sept., 1935	.058	.22	.11	.33	.01	.11	3.7	37.4	3.40	Grass, mainly brown, leafy.
		Jan., 1934	.11	.27	.16	1.57	.03	.45	5.4	39.7	3.70	Grass, mainly green, short.
		April, 1934	.052	.18	.12	.57	.03	.12	4.3	38.0	1.53	Grass, mainly brown, short.
		July, 1934	.04	.24	.17	.34	.01	.18	3.1	37.4	1.80	Grass, brown, short.
		Oct., 1934	.064	.34	.14	.41	.03	.17	3.9	36.8	1.71	Grass, leafy.
		Jan., 1935	.092	.25	.15	1.42	.05	.37	6.4	35.9	2.86	Grass, green, leafy.
Rosedene.....	Ixopo.....	April, 1935	.07	.34	.16	.64	.02	.12	5.2	34.0	2.36	Grass, mainly green, leafy.
		July, 1935	.076	.26	.16	.32	.03	.12	2.7	37.9	1.47	Grass, mainly brown, leafy.
		Oct., 1935	.07	.23	.13	.57	.03	.10	5.1	36.6	1.84	Grass, mainly brown, leafy.

## AREA 3 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Conference.....	Ixopo.....	Nov., 1933	.22	.30	.25	1.99	.06	.58	14.0	30.8	4.60	Grass, mainly green, leafy.
		Feb., 1934	.085	.32	.15	.96	.07	.24	5.0	33.5	2.28	Grass, green, short.
		May, 1934	.094	—	.19	.64	trace	.21	4.2	31.5	2.73	Grass, mainly green, leafy.
		Nov., 1934	.11	.24	.09	1.12	.03	.24	6.4	33.6	2.40	Grass, mainly green, leafy.
		Feb., 1935	.11	.53	.17	1.22	.03	.32	6.5	33.8	3.15	Grass, green, leafy and bush; mostly grass.
		May, 1935	.12	.36	.07	.43	trace	.16	3.5	30.9	1.71	Grass, leafy.
		Dec., 1933	.14	.31	.17	2.04	.05	.40	8.9	36.5	4.12	Grass, mainly green.
Saltsprings.....	Ixopo.....	Mar., 1934	.09	.31	.15	.81	.02	.20	5.7	27.9	2.19	Grass, mainly green.
		June, 1934	.063	.29	.10	.31	.01	.11	3.3	33.1	1.46	Grass, mainly brown, leafy.
		Dec., 1934	—	.33	.16	1.42	.04	—	9.0	34.6	3.08	Grass, green, leafy.
		Mar., 1935	.10	.42	.14	.68	trace	.15	4.9	30.5	2.07	Grass, green, leafy.
		Sept., 1935	.096	.24	.10	.62	.03	.21	6.2	33.1	1.84	Grass, mainly green, leafy.
		Jan., 1934	.13	.27	.15	1.39	.02	.31	7.2	36.7	2.94	Grass, mainly green, short.
		April, 1934	.12	.38	.17	1.30	.03	.42	6.3	37.4	3.35	Grass, mainly green.
Sunnyside.....	Ixopo.....	Oct., 1934	.072	.23	.09	.54	.02	.12	4.5	33.1	1.68	Grass, leafy.
		Jan., 1935	.10	.36	.15	1.36	.03	.28	6.6	32.9	2.84	Grass, green, leafy.
		April, 1935	.09	.33	.12	.70	.03	.10	4.4	32.9	1.88	Grass, green, leafy.
		Nov., 1933	.16	.26	.14	1.62	.14	.44	11.8	38.5	3.92	Grass, green, short.
		Feb., 1934	.088	.20	.10	1.21	.10	.38	6.3	39.7	2.83	Grass, mainly green, short.
		June, 1934	.057	.23	.16	.27	.05	.19	3.6	38.6	1.56	Grass, leafy.
		Sept., 1934	—	.21	.08	.44	.17	—	6.1	36.2	1.74	Grass, short.
Finchley.....	Ixopo.....	Dec., 1934	.096	.22	.08	.98	.03	.31	7.6	34.6	2.39	Grass, green, leafy.
		Mar., 1935	.086	.22	.16	.59	.03	.13	6.3	34.4	2.57	Grass, mainly green, short.
		July, 1935	.077	.30	.27	.28	.04	.15	4.5	40.1	2.17	Grass, mainly brown, short.
		Sept., 1935	.085	.24	.07	.69	.08	.29	7.1	33.2	2.71	Grass, mainly green, short.
		Jan., 1934	.10	.22	.13	.52	.07	.28	7.7	35.9	2.27	Grass, green, short.
		April, 1934	.07	.22	.14	.51	.03	.18	8.3	38.4	1.68	Grass, mainly green, leafy.
		July, 1934	.043	.25	.14	.18	.01	.05	2.7	37.0	1.36	Grass, mainly brown, leafy.
Cromleigh.....	Ixopo.....	Oct., 1934	.06	.20	.19	.65	.07	.17	6.4	36.2	2.06	Grass, mainly green, short.
		Mar., 1935	.083	.29	.16	.89	.01	.19	5.3	36.2	2.43	Grass, green.
		Jan., 1934	.15	.19	.15	1.27	.15	.38	7.3	37.9	3.13	Grass, mainly green, short.
		May, 1934	.06	.22	.13	.63	.04	.23	4.9	35.8	1.78	Grass, mainly brown, leafy.
		Aug., 1934	.047	.22	.13	.21	.01	.03	2.6	38.9	1.31	Grass, brown, leafy.
		Nov., 1934	.15	.30	.16	1.18	.07	.40	10.8	32.0	3.52	Grass, green, short.
		Feb., 1935	.066	.20	.16	.71	.03	.16	3.9	35.3	1.59	Grass, green, leafy.
Olivar.....	Ixopo.....	May, 1935	.088	.35	.15	.87	.07	.29	4.9	30.7	3.08	Grass, mainly green, short.
		Aug., 1935	.067	.35	.13	.35	.03	.12	3.7	35.1	2.28	Grass, brown, short.
		Oct., 1935	.09	.42	.16	.58	.18	.19	6.4	31.1	3.86	Grass, short.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 3 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Colbeck.....	Polka.....	Nov., 1933	.17	.66	.18	1.59	.02	.24	12.1	31.0	4.90	Grass, short and bush; mostly grass.
		Feb., 1934	.093	.19	.10	1.17	.01	.24	5.4	41.6	2.25	Grass, mainly green, leafy.
		April, 1935	.07	.29	.15	.59	.03	.14	5.8	36.0	3.16	Grass, green, leafy.
Sterling.....	Poleda.....	July, 1935	.048	.28	.10	.28	.01	.09	2.3	41.7	1.32	Grass, brown, leafy.
		Dec., 1933	.14	.28	.12	1.46	.02	.34	8.0	37.7	3.08	Grass, mainly green, leafy.
		Mar., 1934	.12	.23	.10	1.24	.02	.25	7.6	37.9	3.91	Grass, mainly green, short.
		May, 1935	.10	.50	.11	.68	trace	.12	3.8	30.4	1.77	Grass, leafy.
Grassmere.....	Poleda.....	Aug., 1935	.06	.31	.09	.23	.02	.09	3.3	34.5	1.72	Grass, brown, leafy.
		Jan., 1934	.10	.27	.14	1.19	.03	.24	6.3	35.1	2.56	Grass, mainly green, short.
		April, 1934	.09	.24	.12	.96	.03	.21	6.4	32.3	2.36	Grass, mainly green, short.
Brianlea.....	Poleda.....	June, 1935	.05	.29	.09	.19	trace	.07	2.9	35.2	1.42	Grass, mainly brown, leafy.
		Sept., 1935	.077	.22	.07	.37	.02	.11	4.3	37.9	1.50	Grass, mainly brown, leafy.
		Nov., 1933	.18	.28	.18	1.80	.04	.35	12.6	33.6	3.64	Grass, green, leafy.
		Feb., 1934	.09	.22	.14	1.09	.01	.21	7.2	36.8	2.70	Grass, green, short.
		May, 1934	.065	.21	.08	.86	.01	.18	5.6	32.6	1.93	Grass, mainly green, leafy.
		Aug., 1934	.025	.19	.09	.19	trace	.07	2.9	35.0	1.03	Grass, mainly brown, leafy.
Kildare.....	Poleda.....	Nov., 1934	.13	.29	.14	1.21	.06	.28	9.1	32.4	2.70	Grass, green, short.
		Feb., 1935	.092	.26	.14	1.02	trace	.16	6.4	32.7	1.96	Grass, green, short.
		May, 1935	.07	.31	.14	.73	.02	.10	5.8	32.3	2.05	Grass, mainly green, leafy.
		Aug., 1935	.08	.39	.15	.59	.03	.08	4.5	37.7	2.25	Grass, brown, leafy.
		Feb., 1934	.11	.24	.11	1.58	.02	.20	8.0	36.9	2.42	Grass, mainly green, short.
		Mar., 1934	.08	.23	.18	.99	.02	.29	6.1	37.8	2.41	Grass, mainly green, leafy.
Snowhill.....	Poleda.....	June, 1934	.10	.21	.12	1.23	.01	.33	6.1	30.7	3.25	Grass, leafy.
		Sept., 1934	.15	.12	.12	1.02	.01	.29	10.0	33.8	2.19	Grass, green, leafy.
		Dec., 1934	.14	.32	.08	1.27	.18	.30	10.0	31.0	3.01	Grass, green, short.
		Mar., 1935	.093	.23	.10	.53	trace	.17	6.8	32.2	2.11	Grass, green, short.
		July, 1935	.19	.54	.17	.95	.21	.49	6.7	30.5	3.55	Grass, leafy (Yorkshire Fog).
		Sept., 1935	.11	.18	.14	1.41	.04	.49	8.7	33.9	3.59	Grass, mainly green, leafy.
White Rocks.....	Impendhle.....	Jan., 1934	.14	.28	.11	1.32	.02	.24	8.2	35.0	2.72	Grass, green, short.
		April, 1934	.076	.26	.13	.86	.02	.14	5.8	37.7	1.87	Grass, mainly green, leafy.
		July, 1934	.046	.31	.23	.38	trace	.14	3.9	34.8	1.72	Grass, mainly brown, leafy.
		Oct., 1934	.13	.20	.14	1.15	.04	.23	9.6	32.0	2.53	Grass, green, short.
		July, 1935	.064	.29	.12	.37	.03	.06	3.6	38.7	1.52	Grass, mainly brown, leafy.
		Oct., 1935	.16	.32	.15	1.72	.05	.37	11.5	35.0	3.64	Grass, green, short.
White Rocks.....	Impendhle.....	Nov., 1933	.15	.23	.12	1.73	.03	.51	11.3	36.6	3.68	Grass, mainly green, short.
		Feb., 1934	.16	.16	.15	2.05	.02	.23	9.3	33.6	4.00	Grass, green.
		June, 1934	.082	.27	.03	.70	.02	.12	4.2	36.7	1.93	Grass, mainly brown.
		Aug., 1934	.05	.21	.09	.26	trace	.02	3.1	34.9	1.27	Grass, mainly brown, leafy.
		May, 1935	.085	.18	.09	.78	.02	.33	4.5	35.9	1.93	Grass, mainly green, short.
		Aug., 1935	.057	.31	.10	.28	.04	.07	3.7	34.7	1.60	Grass, brown, short.

## AREA 3 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Brooklyn.....	Impendhle.....	Dec., 1933	.14	.30	.18	1.63	.03	.38	8.3	35.2	3.22	Grass, green.
		Mar., 1934	.11	.32	.13	1.30	.02	.26	7.3	37.6	2.55	Grass, mainly green.
		June, 1934	.13	.36	.17	1.74	.15	.48	9.7	36.4	3.64	Grass, leafy.
		Sept., 1934	.19	.38	.25	1.96	.03	.52	15.5	30.3	4.30	Grass, green, leafy.
		June, 1935	.053	.26	.10	.38	trace	.09	2.9	37.6	2.01	Grass, brown, short.
		Sept., 1935	.068	.37	.06	.35	.06	.14	3.7	35.4	2.09	Grass, brown, short.
		Jan., 1934	.14	.26	.15	1.28	.02	.28	8.8	39.5	2.87	Grass, mainly green, leafy.
Inhuzani.....	Impendhle.....	April, 1934	.087	.32	.12	.83	.03	.16	5.4	34.6	2.11	Grass, mainly green, leafy.
		July, 1934	.05	.29	.12	.27	.01	.14	2.8	34.8	1.38	Grass, mainly brown, leafy.
		Oct., 1934	.25	.31	.14	1.52	.08	.37	13.5	27.8	3.40	Grass, green, leafy.
		April, 1935	.084	.25	.12	.70	.07	.18	5.1	31.5	2.34	Grass, mainly brown, short.
		July, 1935	.062	.33	.16	.36	.18	.19	4.4	32.8	2.26	Grass, brown, short.
		Oct., 1935	.10	.20	.07	.86	.02	.18	6.5	35.7	2.26	Grass, mainly green, short.
		Nov., 1933	.07	.22	.13	.54	.01	.15	4.7	33.9	2.27	Grass, mainly brown.
Edgerton.....	Umzimkulu....	Mar., 1934	.12	.33	.16	.99	.02	.18	5.8	35.9	2.54	Grass, mainly green, short.
		July, 1934	.066	.31	.11	.51	trace	.16	3.1	33.5	1.78	Grass, mainly brown, leafy.
		June, 1935	.056	.28	.10	.51	.01	.14	3.2	39.7	1.75	Grass, mainly brown.
		Sept., 1935	.053	.18	.04	.25	.04	.07	2.8	38.9	1.29	Grass, brown.
		Dec., 1933	.13	.23	.16	1.30	.04	.37	8.7	35.9	2.82	Grass, mainly green, short.
		April, 1934	.074	.26	.15	.78	.02	.18	6.5	35.4	2.13	Grass, mainly green, short.
		Aug., 1934	.05	.22	.10	.17	trace	.03	3.2	35.1	1.21	Grass, mainly brown, leafy.
Middleton.....	Umzimkulu....	Feb., 1935	.12	.39	.27	2.04	.08	.28	8.1	34.8	4.32	Grass, mainly green, leafy and bush; mostly grass.
		Mar., 1935	.087	.20	.09	1.12	.04	.24	7.2	36.7	2.51	Grass, mainly green, leafy.
		May, 1935	.11	.31	.13	.81	.04	.20	4.5	36.1	2.13	Grass,
		Aug., 1935	.084	.25	.08	.27	trace	.09	3.3	42.8	1.22	Grass, brown.
		Jan., 1935	.20	.41	.21	2.56	.38	1.10	9.8	34.5	5.10	Grass, green, leafy.
		April, 1935	.17	.29	.12	1.29	.17	.18	4.9	36.6	2.98	Grass, mainly green.
		July, 1935	.10	.32	.15	.52	.03	.09	4.9	37.4	1.98	Grass, brown, leafy.
Pata's Location..	Umzimkulu....	Nov., 1933	.12	.18	.12	1.04	.02	.29	8.8	36.7	3.24	Grass, green.
		Feb., 1934	.08	.29	.13	.85	.04	.16	5.9	41.7	1.92	Grass, green.
		May, 1934	.062	.38	.15	.54	.02	.17	4.1	35.8	1.87	Grass, leafy.
		Aug., 1934	.038	.36	.14	.18	trace	.02	2.6	40.1	1.41	Grass, brown.
		Nov., 1934	.078	.30	.11	.81	trace	.16	5.1	38.1	1.97	Grass, mainly green, leafy.
		Feb., 1935	.06	.42	.19	.38	trace	.07	4.3	35.7	1.93	Grass, green, long.
		May, 1935	.074	.41	.15	.34	.02	.08	3.5	35.2	1.93	Grass, long.
Rasmien's Location	Umzimkulu....	Aug., 1935	.074	.42	.11	.20	trace	.07	2.0	32.2	1.45	Grass, brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 3 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Mrubukazi Location No. 10	Umzimkulu....	Dec., 1933	.12	.22	.10	1.19	.08	.25	8.0	36.0	2.68	Grass, mainly green, short.	
		Mar., 1934	.096	.24	.13	.93	.07	.24	6.8	39.8	2.38	Grass, mainly green.	
		June, 1934	.052	.22	.06	.41	.03	.14	.14	6.8	36.6	1.63	Grass, mainly brown.
		Sept., 1934	.048	.25	.07	.48	.03	.06	.4.8	8.5	37.8	1.51	Grass, mainly brown.
		Dec., 1934	.09	.22	.05	.95	.04	.19	.09	8.5	34.8	2.34	Grass, green, leafy.
		Mar., 1935	.07	.15	.05	.46	.01	.09	.09	6.5	38.9	1.44	Grass, mainly green.
		June, 1935	.088	.22	.07	.35	trace	.20	.20	4.4	40.3	1.70	Grass, mainly brown.
		Sept., 1935	.053	.21	.05	.25	.03	.10	.10	4.8	38.5	1.57	Grass, brown, leafy.
		Jan., 1934	.13	.28	.17	1.10	.07	.29	.29	9.8	37.8	2.94	Grass, mainly green.
May, 1934	.14	.29	.20	.75	.04	.24	.24	4.2	38.3	2.32	Grass, leafy.		
July, 1934	.043	.25	.14	.16	.01	.03	.01	2.6	36.4	1.28	Grass, mainly brown, leafy.		
Oct., 1934	.12	.32	.18	.76	.05	.42	.05	6.5	36.9	2.38	Grass, mainly green, leafy.		
Jan., 1935	.096	.26	.19	1.27	.09	.71	.09	6.6	36.6	2.68	Grass, green, leafy.		
April, 1935	.14	.24	.16	1.01	.06	.28	.06	5.3	36.3	2.31	Grass, mainly green.		
July, 19.5	.072	.37	.15	.40	.06	.26	.06	2.5	38.3	1.93	Grass, mainly brown, leafy.		
Nov., 1935	.16	.40	.18	1.34	.07	.32	.07	11.4	33.9	3.59	Grass, green, leafy.		
Tshanibzwe's Location	Umzimkulu....	Nov., 1933	.17	.32	.14	1.46	.01	.30	13.5	31.8	3.27	Grass, green, short.	
		Feb., 1934	.08	.28	.15	1.14	.03	.23	6.0	35.6	2.35	Grass, green, leafy.	
		May, 1934	.043	.27	.14	.43	.02	.12	.3.9	35.4	1.69	Grass, short.	
		Aug., 1934	.043	.27	.12	.20	.01	.04	.3.9	35.8	1.33	Grass, mainly brown, leafy.	
		Oct., 19.4	.087	.24	.13	.60	.02	.20	.5.4	32.4	1.83	Grass, leafy.	
		Feb., 1935	.13	.31	.19	.93	.03	.20	.9.6	9.6	31.4	2.56	Grass, green, short.
		May, 1935	.084	.23	.13	.88	.02	.16	.16	5.9	38.2	1.84	Grass, mainly green, short.
		Dec., 1933	.16	.65	.24	2.11	.06	.72	.06	11.4	30.7	6.42	Grass, mainly green, and bush.
		Mar., 1934	.10	.30	.19	.96	.03	.19	.7.5	7.5	35.1	2.29	Grass, mainly green.
July, 1934	.043	.22	.09	.18	trace	.08	3.9	32.5	1.23	Grass, mainly brown, leafy.			
Nov., 1934	.19	.25	.12	1.36	.08	.28	.08	15.7	34.2	3.10	Grass, green, leafy.		
Dec., 1934	.12	.33	.17	1.46	.10	.35	.10	10.3	29.5	3.22	Grass, green, short.		
April, 1935	.11	.28	.16	.98	.07	.15	.07	8.2	29.4	2.47	Grass, mainly green, short.		
Bally-Rush.....	Umzimkulu....	Jan., 1934	.093	.29	.17	.88	.02	.29	5.1	40.3	2.05	Grass.	
		April, 1934	.07	.41	.14	.75	.02	.29	4.9	35.8	2.35	Grass, leafy.	
		June, 1934	.04	.22	.12	.37	trace	.12	4.0	35.3	1.58	Grass, mainly brown, leafy.	
		Sept., 1934	.067	.22	.22	.43	trace	.10	4.7	34.2	1.48	Grass, mainly brown, leafy.	
		Mar., 1935	.097	.22	.16	.92	trace	.19	7.0	33.4	2.47	Grass, green, short.	
		June, 1935	.044	.21	.13	.65	trace	.09	5.2	32.8	2.10	Grass, mainly green, short.	
Koppieskraal.....	Mt. Currie.....	Nov., 1933	.14	.26	.10	1.02	.06	.21	5.2	34.6	2.64	Grass.	
		Feb., 1934	.17	.37	.24	1.93	.02	.33	7.9	32.3	4.39	Grass, mainly green, short.	
		Aug., 1934	.05	.44	.12	.18	trace	.02	2.3	34.5	1.77	Grass, mainly brown, leafy.	
		Nov., 1934	.19	.28	.14	1.51	trace	.35	13.1	30.3	2.91	Grass, green, short.	
		Mar., 1935	.10	.45	.12	.59	.02	.13	4.8	33.8	2.27	Grass, mainly green, leafy.	
		June, 1935	.06	.31	.11	.22	trace	.07	3.2	39.0	1.59	Grass, brown, leafy.	



## AREA 3 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Strathveva.....	Mt. Currie.....	Dec., 1933	.13	.37	.16	1.25	trace	.18	7.5	31.8	2.84	Grass, mainly green, short.	
		Mar., 1934	.11	.36	.17	.88	.01	.14	5.9	33.3	2.40	Grass, mainly green, short.	
		June, 1934	.047	.37	.12	.52	.01	.11	.33.2	3.1	33.2	2.03	Grass, mainly brown, leafy.
		Dec., 1934	.14	.36	.14	1.30	.03	.23	.8.4	8.4	31.1	2.87	Grass, green, short.
		April, 1935	.087	.49	.16	.47	.16	.16	.07	5.0	30.0	2.58	Grass, mainly green, leafy.
July, 1935	.056	.40	.11	.18		trace	.07	2.2	35.0	1.71	Grass, brown, leafy.		
Kokstad Com-monage	Mt. Currie.....	Jan., 1934	.15	.29	.12	1.38	.02	.22	—	38.3	2.69	Grass, mainly green, short.	
		April, 1934	.088	.26	.12	.99	.02	.22	4.3	35.4	2.26	Grass, mainly green, leafy.	
		July, 1934	.038	.36	.10	.17	trace	.04	.04	2.5	34.6	1.38	Grass, mainly brown, leafy.
		Oct., 1934	.08	.26	.07	.36	trace	.10	.4.7	4.7	33.1	1.54	Grass, mainly brown, leafy.
		Jan., 1935	.12	.33	.16	1.22	.02	.22	.8.0	8.0	32.9	2.70	Grass, green, short.
		Feb., 1935	.11	.29	.12	.78	.05	.25	.05	5.2	32.7	2.07	Grass, mainly green, leafy.
		May, 1935	.078	.32	.08	.23	.02	.07	.05	3.5	36.2	1.39	Grass, brown, leafy.
		Aug., 1935	.11	.32	.09	.15	trace	.05	.05	3.0	33.5	1.40	Grass, brown, leafy.
		Oct., 1935	.074	.24	.07	.32	trace	.08	.08	4.0	33.2	1.74	Grass, brown, leafy.
		Nov., 1933	.082	.34	.11	.34	.11	.34	.01	.10	3.4	37.4	2.11
Drummond Elliot	Matatiele.....	Feb., 1934	.18	.30	.14	1.08	.02	.16	7.6	35.1	2.71	Grass.	
		May, 1934	.095	.43	.09	.43	.02	.10	4.2	35.9	1.69	Grass, long.	
		Aug., 1934	.04	.35	.14	.22	trace	.02	.02	2.6	39.9	1.50	Grass, brown, leafy.
		Nov., 1934	.20	.28	.11	2.00	trace	.56	.05	10.9	33.8	4.06	Grass, green, leafy.
		Feb., 1935	.15	.24	.08	.78	.01	.10	.4.5	4.5	32.8	1.89	Grass, mainly green.
		May, 1935	.14	.29	.08	.33	.02	.04	.04	2.7	34.3	1.47	Grass, mainly brown, leafy.
		Dec., 1933	.22	.26	.17	1.98	.16	.19	.19	8.0	38.7	4.11	Grass, green.
		Mar., 1934	.23	.23	.16	1.62	.16	.05	.05	6.5	37.6	3.75	Grass, green.
		June, 1934	.11	.29	.09	.43	.01	.18	.01	4.5	36.4	1.60	Grass, brown, leafy.
		Sept., 1934	.065	.28	.07	.18	trace	.04	.04	3.8	33.6	1.30	Grass, brown, leafy.
Try Again.....	Matatiele.....	Dec., 1934	.19	.29	.13	1.39	.28	.32	7.8	36.5	3.32	Grass, green, leafy.	
		Mar., 1935	.17	.34	.09	.61	.02	.09	.09	5.3	34.9	2.08	Grass, mainly green, leafy.
		June, 1935	.10	.24	.11	.43	.02	.05	.05	3.9	40.7	1.62	Grass, mainly brown.
		Sept., 1935	.057	.22	.05	.35	.02	.02	.02	4.4	31.4	1.39	Grass.
		Jan., 1934	.17	.24	.11	1.83	.04	.04	.13	7.6	38.0	3.58	Grass, mainly green.
		April, 1934	.15	.31	.13	1.52	.07	.07	.77	10.1	26.4	3.91	Grass, mainly green.
		July, 1934	.11	.26	.10	.25	trace	.02	.02	3.1	33.5	1.64	Grass, brown, leafy.
		Oct., 1934	.076	.18	.05	.22	trace	.03	.03	4.5	34.7	1.34	Grass, leafy.
		Jan., 1935	.14	.24	.08	.85	.02	.12	.12	7.1	37.3	2.01	Grass, green.
		April, 1935	.13	.25	.08	.54	.02	.08	.08	4.7	36.4	1.67	Grass, long.
Oct., 1935	.05	.19	.06	.34	trace	.04	.04	3.0	39.0	1.11	Grass, mainly brown.		
Maartenhefeldt...	Matatiele.....	Nov., 1933	.10	.26	.09	.69	.01	.13	5.7	34.9	1.96	Grass, leafy.	
		Feb., 1934	.14	.30	.12	1.14	.24	.25	7.3	32.9	2.45	Grass, mainly green.	
		Aug., 1934	.055	.36	.13	.19	trace	.11	.11	6.4	35.6	1.49	Grass, brown, leafy.
		Mar., 1935	.11	.36	.16	.56	trace	.01	.01	6.4	33.0	1.94	Grass, mainly green, leafy.
		Aug., 1935	.07	.36	.13	.31	.01	.04	.04	3.3	32.7	1.57	Grass, brown, leafy.
Setaba Weilla.....	Matatiele.....	Nov., 1933	.10	.26	.09	.69	.01	.13	5.7	34.9	1.96	Grass, leafy.	
		Feb., 1934	.14	.30	.12	1.14	.24	.25	7.3	32.9	2.45	Grass, mainly green.	
		Aug., 1934	.055	.36	.13	.19	trace	.11	.11	6.4	35.6	1.49	Grass, brown, leafy.
		Mar., 1935	.11	.36	.16	.56	trace	.01	.01	6.4	33.0	1.94	Grass, mainly green, leafy.
		Aug., 1935	.07	.36	.13	.31	.01	.04	.04	3.3	32.7	1.57	Grass, brown, leafy.

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 3 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Cross Roads.....	Matatiele.....	Dec., 1933	.18	.19	.10	1.29	.03	.22	11.6	39.7	2.71	Grass, green, leafy.	
		Mar., 1934	.14	.33	.10	.75	.02	.12	6.0	37.4	2.21	Grass, mainly green, leafy.	
		June, 1934	.062	.41	.09	.27	trace	.06	.27	2.7	33.4	1.68	Grass, mainly brown, leafy.
		Sept., 1934	.053	.33	.09	.12	trace	.04	.27	2.7	34.5	1.31	Grass, brown, leafy.
		Mar., 1935	.13	.34	.09	.72	trace	.14	.57	35.0	1.93	Grass, green, leafy.	
		July, 1935	.084	.32	.08	.32	.01	.05	.31	33.7	1.43	Grass, brown, leafy.	
		Oct., 1935	.12	.32	.12	.72	.02	.11	6.5	32.0	2.09	Grass, leafy.	
		Jan., 1934	.28	.26	.13	1.54	.06	.28	10.8	37.8	3.38	Grass, green, leafy.	
		April, 1934	.10	.47	.16	.66	.03	.16	5.5	31.6	2.16	Grass, mainly green, leafy.	
		Aug., 1934	.046	.36	—	—	trace	.03	4.1	35.1	1.32	Grass, mainly brown, leafy.	
Merino Walk.....	Matatiele.....	Nov., 1934	.16	.35	.14	1.37	trace	.34	8.2	34.1	2.95	Grass, green.	
		April, 1935	.096	.40	.13	.74	.03	.13	5.4	31.3	1.99	Grass, mainly green, leafy.	
		Sept., 1935	.07	.38	.06	.47	.03	.09	4.0	35.6	1.77	Grass, brown, leafy.	
		Nov., 1933	.16	.38	.15	1.72	trace	.64	8.4	37.5	4.43	Grass.	
		Feb., 1934	.18	.39	.16	.81	.03	.50	5.4	37.4	2.40	Grass, mainly green.	
		June, 1934	.054	.31	.13	.28	.01	.09	2.6	33.8	1.57	Grass, mainly brown, leafy.	
		Sept., 1934	.055	.33	.14	.24	.01	.07	4.1	35.4	1.37	Grass, mainly brown, leafy.	
		Dec., 1934	.07	.29	.13	.70	trace	.22	5.3	34.4	1.90	Grass, mainly green.	
		Mar., 1935	.14	.31	.20	.92	.03	.11	5.6	37.0	2.38	Grass, green.	
		June, 1935	.057	.51	.21	.48	trace	.13	3.7	34.2	2.34	Grass, mainly green, long.	
Mt. Ayliff Com-mouage	Mt. Ayliff.....	Nov., 1935	.05	.33	.16	.37	trace	.07	3.2	37.9	1.78	Grass, mainly brown, leafy.	
		Dec., 1933	.13	.29	.20	1.18	.03	.30	10.7	30.9	3.09	Grass, mainly green.	
		Mar., 1934	.10	.38	.14	.72	.02	.18	6.1	33.4	2.21	Grass, mainly green.	
		April, 1934	.08	.34	.14	.72	.02	.16	5.4	32.8	2.09	Grass, leafy.	
		Jan., 1935	.065	.23	.12	.69	.04	.17	5.0	33.5	1.71	Grass, mainly green.	
		April, 1935	.06	.49	.22	.39	trace	.16	4.1	32.9	2.14	Grass, green, long.	
		Aug., 1935	.083	.44	.20	.30	trace	.09	2.4	34.0	2.03	Grass, leafy.	
		Jan., 1934	.12	.18	.13	1.65	trace	.19	7.7	36.4	3.20	Grass, mainly green.	
		May, 1934	.046	.33	.14	.34	.01	.10	3.3	33.8	1.56	Grass, mainly green, long.	
		July, 1934	.035	.29	.11	.16	trace	.02	2.8	33.7	1.27	Grass, brown, leafy.	
Ngwegweni Loca-tion	Mt. Ayliff.....	Aug., 1934	.047	.26	.13	.26	trace	.04	3.7	31.6	1.31	Grass, brown, leafy.	
		Oct., 1934	.089	.16	.22	.80	.02	.10	5.3	35.6	1.84	Grass, mainly green.	
		Feb., 1935	.13	.32	.18	.96	.08	.15	6.4	35.9	2.42	Grass, green.	
		May, 1935	.055	.58	.30	.32	trace	.07	3.1	35.8	2.20	Grass, mainly green.	
		Aug., 1935	.077	.46	.23	.18	.01	.07	1.8	34.4	1.65	Grass, brown, leafy.	
		Oct., 1935	.08	.38	.24	.54	.01	.12	4.1	36.4	2.19	Grass, leafy.	
		Nov., 1933	.14	.31	.13	1.04	.06	.27	10.5	31.7	3.18	Grass, mainly green.	
		May, 1934	.055	.39	.13	.51	trace	.19	4.0	37.3	1.70	Grass, leafy.	
		Nov., 1934	.14	.30	.13	1.59	trace	.41	9.2	34.5	3.03	Grass, green, leafy.	
		Feb., 1935	.13	.37	.18	1.44	trace	.11	7.9	33.1	3.10	Grass, green, leafy.	
Labuveni Loca-tion	Mt. Frere.....	May, 1935	.074	.45	.14	.39	.01	.09	3.7	31.3	1.80	Grass, leafy.	
		Aug., 1935	.047	.28	.06	.18	.02	.05	2.3	36.4	1.02	Grass, brown, leafy.	

## AREA 3 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Dlodela.....	Mt. Frere.....	Dec., 1933	.12	.34	.13	1.24	.05	.32	8.1	33.7	2.58	Grass, mainly green, short.	
		Mar., 1934	.097	.31	.14	.82	.02	.20	7.6	33.3	2.12	Grass, mainly green, short.	
		June, 1934	.045	.34	.10	.32	.01	.05	.32	3.0	34.5	1.45	Grass, mainly brown, leafy.
		Dec., 1934	.12	.30	.11	1.13	.03	.23	7.2	32.9	2.36	Grass, green, leafy.	
		Mar., 1935	.083	.22	.10	.74	.01	.17	6.8	33.8	2.39	Grass, green, short.	
		June, 1935	.05	.36	.11	.22	trace	.09	.22	33.8	1.57	Grass, brown, short.	
		Sept., 1935	.047	.28	.04	.18	.03	.08	3.0	37.4	1.27	Grass, brown, leafy.	
		Jan., 1934	.11	.31	.14	1.26	.01	.20	6.5	33.4	2.68	Grass, mainly green, short.	
		April, 1934	.098	.23	.13	.88	.02	.18	6.9	37.8	2.21	Grass, mainly green, short.	
Mt. Frere Com-montage	Mt. Frere.....	Oct., 1934	.05	.24	.08	.18	.01	.04	4.1	31.3	1.32	Grass, leafy.	
		Jan., 1935	.10	.44	.13	.95	.16	.36	6.1	35.1	2.53	Grass, green, leafy.	
		April, 1935	.083	.31	.11	.63	.01	.11	3.3	34.8	1.46	Grass, leafy.	
		July, 1935	.068	.25	.07	.19	trace	.08	3.2	37.1	1.66	Grass, brown, short.	
		Oct., 1935	.04	.23	.04	.07	.02	.01	2.6	40.2	0.89	Grass, brown, leafy.	
		Nov., 1933	.09	.21	.08	.59	.01	.22	5.8	34.5	2.06	Grass, brown.	
		Feb., 1934	.13	.24	.18	1.65	.03	.31	7.8	32.3	3.05	Grass, green.	
		May, 1934	.046	.39	.13	1.05	.03	.22	3.6	35.6	2.08	Grass, leafy.	
		Aug., 1934	.06	.32	.12	.27	trace	.06	3.4	36.4	1.42	Grass, mainly brown, leafy.	
Ezilandene Location	Mt. Fletcher...	Nov., 1934	.084	.22	.08	.94	.02	.19	33.1	1.81	1.42	Grass, mainly green, leafy.	
		Feb., 1935	.074	.28	.10	.87	trace	.14	5.2	34.2	1.87	Grass, mainly green, leafy.	
		May, 1935	.078	.30	.08	.43	trace	.08	3.5	34.7	1.42	Grass, leafy.	
		Aug., 1935	.074	.24	.09	.33	.03	.12	2.8	35.6	1.50	Grass, mainly brown, leafy.	
		Dec., 1933	.13	.29	.15	1.57	trace	.29	9.3	33.2	3.53	Grass, mainly green, short.	
		Mar., 1934	.08	.24	.10	.91	.01	.23	6.4	36.6	2.09	Grass, green, short.	
		June, 1934	.046	.34	.10	.52	.04	.15	3.2	34.0	1.87	Grass, mainly brown, leafy.	
		Sept., 1934	.07	.42	.10	.36	trace	.07	3.7	35.1	1.20	Grass, mainly brown, leafy.	
		Oct., 1934	.05	.21	.06	.34	trace	.07	3.7	37.2	1.21	Grass, leafy.	
Mfanta Location..	Mt. Fletcher...	Dec., 1934	—	.29	.12	1.28	trace	—	7.8	34.6	2.59	Grass, green, leafy.	
		Mar., 1935	.077	.26	.10	.61	trace	.09	5.6	34.0	1.66	Grass, green, leafy.	
		June, 1935	.052	.24	.08	.29	trace	.10	3.0	36.1	1.42	Grass, mainly brown, leafy.	
		Jan., 1934	.10	.27	.12	1.21	.08	.24	7.4	35.1	2.81	Grass, mainly green.	
		April, 1934	.093	.27	.10	.79	trace	.16	6.2	33.9	1.74	Grass, mainly green, leafy.	
		July, 1934	.032	.32	.08	.49	trace	.11	3.3	35.5	1.57	Grass, mainly brown, leafy.	
		Jan., 1935	—	.30	.11	1.31	.03	—	7.4	34.9	2.61	Grass, green, leafy.	
		April, 1935	.066	.30	.10	.74	.02	.10	5.0	33.2	1.88	Grass, mainly green, leafy.	
		July, 1935	.092	.23	.08	.34	.02	.13	3.3	38.7	1.43	Grass, mainly brown, leafy.	

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 4.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Wheatlands.....	Port Shepstone	Dec., 1933	.13	.20	.17	1.65	.35	.68	6.0	38.5	4.00	Grass, mainly green.	
		Mar., 1934	.12	.27	.11	1.07	.31	.47	7.1	39.3	3.37	Grass, mainly green, short.	
		June, 1934	.06	.23	.08	.54	.15	.34	.40	5.1	39.9	1.99	Grass, mainly green.
		Aug., 1934	.087	.23	.13	.91	.24	.40	.8.3	37.6	2.80	Grass, mainly green.	
		Feb., 1935	.066	.20	.12	.98	.19	.35	.5.1	39.6	2.32	Grass, green, long.	
		Aug., 1935	.052	.22	.10	.80	.25	.58	3.5	39.8	2.79	Grass, mainly brown.	
		Jan., 1934	.13	.25	.15	1.31	.18	.52	13.5	38.8	3.33	Grass, mainly green.	
		April, 1934	.08	.22	.13	.73	.16	.38	5.1	40.8	2.36	Grass, short.	
Briarglen.....	Port Shepstone	Oct., 1934	.083	.33	.22	.93	.16	.40	6.8	34.9	3.03	Grass, green.	
		Mar., 1935	.084	.20	.13	.99	.24	.94	5.2	41.3	2.94	Grass, mainly green.	
		June, 1935	.12	.25	.11	.84	.07	.05	5.1	39.5	2.60	Grass, leafy.	
		Sept., 1935	.06	.17	.11	.79	.21	.62	3.9	39.5	2.70	Grass.	
		Nov., 1933	.14	.19	.14	1.41	.23	.40	12.6	35.0	3.16	Grass, green, leafy.	
		Feb., 1934	.09	.21	.13	1.11	.18	.40	6.1	37.1	2.57	Grass, green, leafy.	
		May, 1934	.077	.23	.15	.75	.09	.35	6.7	35.8	2.10	Grass, mainly green, leafy.	
		Aug., 1934	.13	.27	.14	1.01	.16	.31	8.1	35.3	2.61	Grass, mainly green.	
Fountain Hill....	Port Shepstone	Nov., 1934	.16	.28	.17	1.33	.21	.49	11.4	31.5	3.35	Grass, green, leafy.	
		Feb., 1935	.11	.21	.12	1.20	.10	.22	7.7	34.0	2.31	Grass, green, leafy.	
		May, 1935	.12	.30	.16	.89	.15	.27	6.7	34.6	2.49	Grass, green, leafy.	
		Aug., 1935	.058	.28	.13	.90	.23	.40	7.2	33.9	2.71	Grass, green, leafy.	
		Dec., 1933	.13	.24	.20	1.57	.19	.55	10.3	34.4	3.47	Grass, mainly green, leafy.	
		Mar., 1934	.093	.32	.22	.61	.07	.32	6.3	38.4	2.10	Grass, mainly green.	
		June, 1934	.09	.30	.17	.98	.26	.40	7.8	33.5	2.75	Grass, green, leafy.	
		Sept., 1934	.14	.19	.20	1.08	.38	.75	12.6	36.4	4.06	Grass, green, leafy.	
Fredheim.....	Port Shepstone	Dec., 1934	—	.24	.19	1.02	.19	—	9.6	32.7	2.62	Grass, green, leafy.	
		Mar., 1935	.086	.32	.16	.75	.10	.26	6.5	33.5	2.09	Grass, green, leafy.	
		June, 1935	.11	.41	.19	1.15	.17	.52	9.8	31.4	3.58	Grass, green, leafy.	
		Sept., 1935	.21	.32	.19	2.12	.25	.93	16.5	30.6	7.04	Grass, green, short.	
		Jan., 1934	.13	.22	.17	1.29	.24	.44	8.7	34.1	3.16	Grass, mainly green.	
		April, 1934	.10	.26	.16	.93	.11	.31	7.3	36.8	2.52	Grass, mainly green, leafy.	
		July, 1934	.083	.27	.17	—	.28	.52	6.8	35.8	2.84	Grass, mainly green, leafy.	
		Oct., 1934	.11	.23	.21	1.40	.47	.41	11.2	33.2	3.70	Grass, green, leafy.	
Ocean View.....	Port Shepstone	Jan., 1935	.13	.23	.19	1.63	.40	.60	9.7	36.4	3.93	Grass, green, leafy.	
		April, 1935	.12	.26	.17	1.23	.28	.57	12.3	35.7	3.31	Grass, green, leafy.	
		July, 1935	.15	.30	.25	1.09	.42	.70	11.2	31.9	4.13	Grass, green, leafy.	
		Oct., 1935	.12	.23	.17	1.20	.39	.67	9.1	33.1	4.17	Grass, green, short.	
		Nov., 1933	.23	.31	.15	2.04	.32	.86	12.4	34.8	4.85	Grass, green, short.	
		May, 1934	.068	.21	.10	.68	.15	.43	5.5	43.1	2.46	Grass, mainly green.	
		Sept., 1934	.096	.30	.11	.83	.38	.43	8.7	36.3	2.40	Grass, green.	
		April, 1935	.063	.18	.14	1.11	.31	.60	6.7	38.7	2.94	Grass, mainly green.	
Southbroom.....	Port Shepstone	July, 1935	.063	.21	.16	.47	.18	.16	3.7	37.0	2.31	Grass.	
		Oct., 1935	.053	.17	.11	.63	.15	.39	4.3	39.2	2.29	Grass, mainly green.	

## AREA 4 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Kenterton.....	Umzinto.....	Nov., 1933	.16	.26	.14	1.45	.33	.74	12.9	33.0	3.84	Grass, green, leafy.
		Feb., 1934	.095	.14	.08	1.05	.07	.19	7.2	41.4	2.07	Grass, mainly green.
		May, 1934	.055	.14	.05	.37	.04	.09	.37	41.3	1.27	Grass.
		Aug., 1934	.036	.16	.05	.22	.01	.04	.31	43.3	0.89	Grass, mainly brown.
		Nov., 1934	.14	.22	.12	1.47	.13	.57	12.0	32.8	3.25	Grass, green.
April, 1935	.16	.28	.32	2.39	.11	.45	.45	6.8	37.8	4.94	Grass.	
Melbourne.....	Umzinto.....	Dec., 1933	.092	.19	.15	2.21	.09	.35	7.5	36.6	2.53	Grass, mainly green.
		Mar., 1934	.062	.12	.07	.62	.05	.17	3.4	44.1	1.31	Grass, green, long.
		June, 1934	.14	.26	.08	1.32	.11	.33	5.9	38.1	3.00	Grass, mainly green.
		Dec., 1934	.23	.20	.11	1.77	.17	.32	13.4	37.5	3.78	Grass, green.
		May, 1935	.08	.27	.12	1.03	.14	.52	4.9	39.9	2.73	Grass, mainly green.
Sutherland.....	Umzinto.....	Jan., 1934	.09	.24	.13	1.06	.08	.28	6.5	37.9	2.66	Grass, mainly green.
		July, 1934	.10	.15	.07	.42	.11	.22	4.9	38.5	1.76	Grass.
		Oct., 1934	.13	.16	.08	.85	.11	.33	7.8	36.8	2.47	Grass, mainly green.
		June, 1935	.057	.23	.18	.88	.10	.36	5.1	37.4	2.25	Grass, mainly green.
Park Rynnie.....	Umzinto.....	Nov., 1933	.087	.19	.13	.82	.23	.40	8.0	38.4	2.65	Grass, green, leafy.
		Feb., 1934	.19	.25	.09	1.41	.14	.44	7.9	39.0	3.45	Grass, mainly green.
		May, 1934	.14	.24	.08	.86	.13	.35	6.0	40.3	2.38	Grass, mainly green.
		April, 1935	.056	.18	.15	.35	.17	.16	3.9	35.7	1.70	Grass, leafy.
		July, 1935	.048	.16	.13	.22	.16	.25	3.6	35.2	1.46	Grass, leafy.
Oct., 1935	.05	.18	.17	.29	.17	.22	4.8	41.5	1.90	Grass, leafy.		
Monte Vedio.....	Umzinto.....	Dec., 1933	.10	.17	.09	.99	.10	.24	6.6	38.9	2.64	Grass, mainly green, short.
		Mar., 1934	.10	.16	.11	1.37	.11	.34	8.1	36.2	2.89	Grass, mainly green, short.
		June, 1934	.09	.25	.12	.90	.08	.41	38.4	2.29	Grass.	
		Sept., 1934	.15	.21	.08	.56	.08	.16	6.8	37.3	1.84	Grass, mainly green.
		May, 1935	.08	.20	.18	.42	.15	.26	4.3	38.8	1.82	Grass, mainly green.
Aug., 1935	.057	.19	.16	.40	.14	.24	4.0	36.9	1.91	Grass, mainly green, leafy.		
Imbelebele.....	Umzinto.....	Jan., 1934	.14	.18	.15	1.49	.09	.44	8.9	39.6	3.27	Grass, mainly green.
		April, 1934	.14	.33	.11	1.15	.13	.40	7.3	39.3	2.88	Grass, mainly green.
		July, 1934	.10	.16	.07	.44	.03	.08	5.9	37.2	1.53	Grass, mainly green, short.
		Oct., 1934	.14	.21	.07	.86	.13	.27	6.3	38.0	2.17	Grass, mainly green.
		June, 1935	.06	.18	.16	.35	.11	.31	5.0	36.1	1.83	Grass, leafy.
Sept., 1935	.053	.18	.16	.27	.23	.44	4.5	34.6	2.20	Grass, leafy.		
Roovaaal.....	Alfred.....	Nov., 1933	.093	.22	.17	.55	.09	.22	8.9	33.7	2.07	Grass.
		June, 1934	.052	.26	.16	.46	.02	.13	4.3	32.5	1.60	Grass, mainly brown, leafy.
		Sept., 1934	.05	.17	.12	.25	.02	.11	4.0	37.7	1.21	Grass, mainly brown, leafy.
		Jan., 1935	.088	.28	.19	.90	.07	.25	7.6	33.6	2.21	Grass, green, leafy.
		Mar., 1935	.086	.29	.17	.58	.11	.17	6.0	32.6	2.20	Grass, green, leafy.
June, 1935	.067	.23	.13	.38	trace	.10	4.4	33.6	1.66	Grass, mainly brown, short.		
Aug., 1935	.06	.25	.09	.36	.05	.09	3.3	34.8	2.34	Grass, mainly brown, short.		
Oct., 1935	.09	.21	.11	.76	.03	.19	7.9	35.1	2.21	Grass, mainly green, short.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 4 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
The Pastures.....	Alfred.....	Feb., 1934	.087	.26	.15	.90	.21	.24	7.8	35.8	2.61	Grass, mainly green.
		July, 1934	.045	.32	.15	.29	.09	.31	3.1	33.0	1.63	Grass, mainly brown, leafy.
		Nov., 1934	.055	.21	.09	.42	.04	.12	5.5	36.3	1.59	Grass, mainly brown, leafy.
		Feb., 1935	.092	.27	.18	.82	.14	.17	7.5	34.0	2.35	Grass, green, leafy.
		July, 1935	.067	.26	.13	.29	.04	.14	4.2	38.1	1.52	Grass, leafy.
Cliffvale.....	Alfred.....	May, 1934	.065	.38	.27	.51	.03	.30	3.9	35.2	2.06	Grass, leafy.
		Oct., 1934	.065	.17	.11	.33	.07	.22	4.1	37.1	1.30	Grass, mainly brown, leafy.
		April, 1935	.084	.28	.17	.58	.07	.17	5.9	33.2	1.82	Grass, green, leafy.
Cibini Location...	Tabankulu.....	Jan., 1934	—	.27	.12	1.41	.02	—	8.2	33.1	3.38	Grass.
		April, 1934	.08	.27	.12	.77	.02	.14	5.3	31.4	1.97	Grass, mainly brown, short.
		July, 1934	.044	.34	.12	.18	.01	.04	3.2	33.3	1.48	Grass, brown, leafy.
		Oct., 1934	.052	.21	.06	.34	.01	.04	3.6	36.4	1.07	Grass, brown.
		Dec., 1934	.10	.33	.08	.92	.07	.15	7.0	33.6	2.32	Grass, mainly green, leafy.
April, 1935	.11	.30	.11	.62	trace	.10	4.5	31.3	1.84	Grass, mainly green, leafy.		
Cacadu Location..	Tabankulu.....	Feb., 1934	.072	.33	.17	1.31	.03	.29	5.8	39.1	3.08	Grass, mainly green.
		May, 1934	.10	.56	.20	.72	.03	.22	4.6	32.9	2.73	Grass, mainly green, leafy.
		Aug., 1934	.046	.24	.12	.36	trace	.12	3.1	36.3	1.38	Grass, mainly brown, leafy.
		Feb., 1935	.06	.24	.13	.59	trace	.09	4.2	32.6	1.89	Grass, mainly green, leafy.
Ngcolo Location..	Tabankulu.....	April, 1934	.088	.33	.15	.79	.02	.22	5.1	34.6	2.20	Grass, mainly green, leafy.
		June, 1934	.055	.44	.19	.19	.03	.12	3.7	33.2	1.76	Grass, brown, leafy.
		Sept., 1934	.054	.34	.20	.34	.02	.07	6.1	33.8	1.34	Grass, mainly brown, leafy.
		Jan., 1935	.067	.28	.13	.66	.04	.16	4.8	35.3	1.75	Grass, mainly green, leafy.
		Mar., 1935	.074	.38	.17	.70	.07	.23	5.5	35.7	1.99	Grass, mainly green, leafy.
		June, 1935	.089	.25	.16	.44	trace	.18	4.5	34.3	2.08	Grass, short.
Ngwenyana Location	Tabankulu.....	Mar., 1934	.13	.32	.15	1.01	.02	.24	6.5	37.3	2.37	Grass, mainly green.
		Jan., 1935	.14	.29	.21	1.42	trace	.34	8.0	34.7	2.92	Grass, green, leafy.
		April, 1935	.12	.25	.06	.65	.02	.13	4.2	34.6	1.73	Grass, leafy.
		July, 1935	.09	.38	.10	.23	.02	.08	2.4	36.7	1.42	Grass, brown, leafy.
Oct., 1935	.07	.25	.10	.51	.02	.14	4.5	41.2	1.67	Grass, mainly green.		
Lundine Location	Tabankulu.....	May, 1934	.15	.40	.10	.72	.04	.22	5.5	36.1	2.24	Grass, mainly green.
		Dec., 1934	.15	.31	.16	1.30	.05	.39	8.7	36.0	2.65	Grass, mainly green, leafy.
		Mar., 1935	.088	.21	.10	.79	.04	.24	5.3	35.8	2.05	Grass, green, leafy.
		June, 1935	.055	.19	.06	.29	trace	.12	2.7	40.2	1.60	Grass, mainly brown, short.
		Sept., 1935	.09	.27	.05	.63	.03	.09	4.5	36.6	1.75	Grass, brown, leafy.
Nyokweni Location	Tabankulu.....	Feb., 1935	.05	.23	.10	.34	.02	.09	4.7	35.9	1.27	Grass, leafy.
		May, 1935	.074	.33	.11	.39	.03	.07	5.0	39.5	1.54	Grass.
		Aug., 1935	.044	.26	.11	.13	.01	.05	2.0	37.1	1.07	Grass, brown, leafy.

## AREA 4 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Amanikwe Location	Bizana .....	Jan., 1935	.053	.18	.15	.33	.12	.17	4.1	32.9	1.66	Grass, mainly green, leafy.	
		April, 1935	.06	.21	.12	.36	.04	.10	4.1	34.6	1.64	Grass, leafy.	
		July, 1935	.056	.22	.08	.24	.06	.12	.08	3.1	36.1	1.37	Grass, mainly brown, leafy.
		Oct., 1935	.062	.20	.08	.26	.10	.08	.08	4.3	37.1	1.45	Grass, mainly brown, leafy.
Izimini Location..	Bizana .....	Feb., 1935	.07	.21	.13	.44	.16	.25	5.3	35.6	1.75	Grass, green.	
		May, 1935	.14	.22	.16	.58	.10	.21	4.0	37.8	1.99	Grass, mainly brown.	
		Sept., 1935	.035	.13	.05	.21	.04	.11	3.3	36.5	0.97	Grass, brown.	
Isekelo Location..	Bizana .....	Mar., 1935	.13	.25	.14	.82	.09	.22	5.4	35.6	2.45	Grass, mainly green.	
		June, 1935	.074	.25	.11	.43	.02	.46	3.8	39.1	2.83	Grass, mainly brown, leafy.	
		Aug., 1935	.05	.25	.13	.22	.04	.08	2.9	37.0	1.70	Grass, brown, leafy.	
		Jan., 1934	.093	.20	.11	.89	.06	.20	7.4	34.9	2.33	Grass,	
Ntshangasi Location	Flagstaff.....	April, 1934	.086	.24	.12	.81	.07	.09	6.6	35.7	2.07	Grass.	
		Nov., 1934	.08	.18	.09	.87	.19	.25	7.1	34.0	2.19	Grass.	
		Mar., 1935	.087	.20	.08	.77	.04	.19	5.8	37.4	1.79	Grass, mainly green, leafy	
		July, 1935	.077	.20	.11	.42	.03	.17	3.6	37.8	1.44	Grass, mainly brown, short.	
		Sept., 1935	.065	.27	.04	.42	.03	.30	5.5	36.3	1.56	Grass, short.	
		Oct., 1935	.12	.36	.17	1.08	.12	.35	5.9	35.8	2.48	Grass, green, leafy.	
		Feb., 1934	—	.26	.21	.89	.13	—	7.2	36.5	2.66	Grass, mainly green.	
		May, 1934	.036	.21	.12	.29	.10	.17	4.2	37.0	1.48	Grass, mainly brown, leafy.	
Qasa Location....	Flagstaff.....	April, 1935	.055	.23	.12	.29	.03	.07	4.2	35.8	1.40	Grass, mainly green, leafy.	
		June, 1935	.065	.23	.10	.38	.02	.16	3.5	37.9	1.78	Grass, leafy.	
		Mar., 1934	.10	.22	.13	.99	.11	.24	7.3	38.1	2.35	Grass.	
		Aug., 1934	.04	.18	.04	.12	.01	.02	2.7	37.0	1.13	Grass, mainly brown, leafy.	
Ntlenzi Location..	Flagstaff.....	May, 1935	.049	.23	.08	.35	.03	.09	4.2	34.6	1.88	Grass, mainly brown, leafy.	
		Nov., 1934	.092	.16	.09	.72	.06	.20	5.3	35.1	1.83	Grass, mainly green.	
		April, 1935	.065	.27	.12	.68	trace	.06	4.8	34.7	1.85	Grass, mainly green.	
		July, 1935	.05	.20	.06	.24	.03	.09	3.1	36.7	1.30	Grass, mainly brown, leafy.	
Sipageni Location	Flagstaff.....	Oct., 1935	.092	.33	.14	.75	.11	.20	7.7	34.8	2.67	Grass, mainly green, leafy.	
		Feb., 1935	.15	.28	.19	1.92	.36	.18	6.3	38.6	4.36	Grass, green, leafy.	
		May, 1935	.089	.32	.33	.48	.05	.16	5.2	38.4	2.09	Grass, green, leafy.	
		June, 1935	.08	.32	.12	.22	trace	.09	2.6	37.5	1.45	Grass.	
Tekweni Location	Flagstaff.....	Aug., 1935	.10	.18	.16	.68	.06	.21	3.9	38.3	1.68	Grass, mainly brown.	
		Mar., 1935	.056	.24	.14	.71	.02	.17	5.3	40.4	1.74	Grass, green, long.	
		Sept., 1935	.072	.29	.13	.28	.13	.14	6.3	34.7	2.72	Grass, leafy.	

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 4 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Zalu Location...	Lusikisiki.....	Nov., 1933	.19	.29	.16	1.68	.56	.78	11.2	37.6	4.85	Grass.	
		Nov., 1934	.05	.23	.12	.27	.03	.06	4.0	37.1	1.32	Grass, mainly brown.	
		Nov., 1934	.068	.26	.10	.36	.09	.22	.42	4.2	35.4	1.78	Grass, long.
		Feb., 1935	.095	.35	.16	.96	.13	.67	7.0	7.0	34.1	2.57	Grass, green, leafy and bush; mostly grass.
		May, 1935	.13	.33	.18	.81	.51	.50	8.5	8.5	35.2	3.28	Grass, green, leafy.
Nyosana Location	Lusikisiki.....	Aug., 1935	.065	.26	.11	.30	.28	.36	4.5	38.7	1.62	Grass, mainly green.	
		May, 1934	.065	.35	.17	.54	.41	.76	5.0	35.9	2.75	Grass, mainly green.	
		Aug., 1934	.056	.17	.09	.39	.04	.13	5.1	41.6	1.22	Grass, mainly green.	
		Dec., 1934	.087	.18	.13	1.45	.26	.68	8.4	35.3	3.67	Grass, mainly green.	
		Mar., 1935	.12	.45	.20	.60	.19	.26	7.3	36.3	2.68	Grass, green, long and bush; mostly grass.	
Zalu Heights Location	Lusikisiki.....	June, 1935	.07	.22	.17	.47	.19	.27	5.4	38.6	2.19	Grass, mainly green.	
		Sept., 1935	.083	.22	.12	.64	.14	.38	5.8	32.6	1.97	Grass, mainly green.	
		June, 1934	.17	.45	.27	.67	.76	1.15	7.6	7.6	34.6	4.56	Grass, mainly green, leafy.
		Sept., 1934	.10	.20	.15	.68	.55	.55	7.7	37.4	2.68	Grass, mainly green.	
		Jan., 1935	.058	.18	.14	.61	.13	.32	5.1	34.8	1.70	Grass, mainly green, long.	
Lusikisiki Com-monage	Lusikisiki.....	May, 1935	.065	.27	.16	.62	.15	.18	5.2	39.6	2.08	Grass, mainly green, leafy.	
		July, 1935	.13	.73	.27	.45	.26	.29	7.4	34.5	3.31	Grass, mainly green and bush.	
		Oct., 1935	.11	.22	.13	.73	.24	.37	7.0	36.9	2.28	Grass, green, leafy.	
		Nov., 1933	.11	.25	.14	1.04	.14	.39	8.2	34.6	3.45	Grass, mainly green, short.	
		May, 1934	.05	.31	.20	.49	.03	.21	4.4	33.3	2.08	Grass, short.	
Mzinthlava Location	Lusikisiki.....	April, 1935	.09	.23	.11	.41	.02	.07	4.5	30.2	1.85	Grass, short.	
		July, 1935	.046	.19	.11	.28	.05	.11	2.8	36.9	1.60	Grass, mainly brown, short.	
		Sept., 1935	.044	.17	.11	.27	.03	.10	3.2	36.1	1.55	Grass, mainly brown, short.	
		June, 1934	.03	.19	.14	.29	.03	.10	2.9	34.4	1.55	Grass, mainly brown, short.	
		Mar., 1935	.06	.19	.16	.46	.13	.30	4.4	41.3	1.76	Grass, mainly green.	
Lambasi Location	Lusikisiki.....	May, 1935	.11	.31	.18	.81	.19	.44	7.9	35.4	2.50	Grass, green.	
		Jan., 1935	.076	.20	.17	.70	.05	.29	5.5	33.9	2.01	Grass, green, short.	
		June, 1935	.052	.20	.10	.28	trace	.28	3.7	32.7	1.87	Grass, mainly brown, short.	
		Aug., 1935	.047	.27	.11	.30	.03	.10	3.5	33.8	1.96	Grass, short.	
		Mar., 1934	.096	.21	.19	.75	.31	.39	6.6	38.8	2.64	Grass, mainly green.	
Ngquza Hill Location	Lusikisiki.....	May, 1934	.043	.19	.17	.42	.11	.31	3.7	39.3	1.66	Grass, long.	
		Sept., 1934	.063	.14	.12	.60	.14	.34	4.9	41.6	1.70	Grass, long.	
		Nov., 1934	.078	.24	.14	.62	.25	.75	4.2	37.2	2.20	Grass, long.	
		July, 1935	.095	.18	.15	.68	.14	.43	4.8	39.7	1.90	Grass.	
		Nov., 1935	.052	.17	.15	.52	.26	.60	5.2	39.8	2.35	Grass, mainly green.	
Mhlumba Location	Lusikisiki.....	May, 1934	.12	.56	.26	1.18	.38	.73	8.7	37.8	4.18	Grass, mainly green, leafy and bush; mostly grass.	
		Jan., 1935	.076	.18	.10	.96	.08	.37	4.7	37.7	2.17	Grass, mainly green.	



AREA 4 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Kanywayo Location	Lusikisiki.....	April, 1934	.082	.25	.14	.77	.23	.44	5.2	34.8	2.23	Grass.
		July, 1934	.057	.19	.12	.52	.08	.25	3.5	39.8	1.73	Grass, mainly brown, short.
		Oct., 1934	.073	.17	.12	.62	.17	.70	5.1	36.9	2.03	Grass, mainly green, long.
		Sept., 1935	.08	.17	.10	1.13	.20	.89	5.9	40.0	3.14	Grass, mainly green.
		May, 1934	.077	.41	.19	.59	.30	.47	5.7	38.9	3.10	Grass, mainly green.
Views Farm No. 9	Port St. Johns.	Aug., 1934	.18	.31	.21	1.53	.18	.67	8.9	33.4	3.93	Grass, mainly green.
		Dec., 1934	.18	.30	.14	1.88	.38	1.00	11.1	35.8	4.48	Grass, green.
		April, 1935	.23	.32	.16	1.85	.41	.59	10.0	33.9	4.86	Grass.
		July, 1935	.22	.30	.23	2.59	.32	1.33	9.2	33.6	6.08	Grass, mainly green.
		Oct., 1935	.28	.31	.24	2.50	.43	1.58	10.7	36.7	6.83	Grass, green, leafy.
Fairview.....	Port St. Johns.	June, 1934	.11	.25	.13	.49	.18	.34	3.7	36.9	2.01	Grass, mainly brown.
		Oct., 1934	.19	.22	.16	.87	.46	.54	6.5	32.3	—	Grass, mainly green.
		Nov., 1934	.17	.22	.14	.83	.29	.56	6.5	35.9	3.16	Grass.
		Mar., 1935	.12	.15	.08	.59	.10	.20	3.5	39.4	1.77	Grass, mainly green, long.
		May, 1935	.19	.57	.33	1.22	.26	.31	8.3	36.7	4.37	Grass, mainly green and bush ; mostly grass.
No. 11.....	Port St. Johns.	Aug., 1935	.11	.22	.20	.60	.20	.31	3.8	38.6	2.16	Grass, mainly brown, leafy.
		Mar., 1935	.22	.32	.23	1.02	.34	.66	9.2	33.6	4.48	Grass, green, leafy.
		June, 1935	.11	.20	.16	.85	.10	.46	4.1	41.4	2.55	Grass, mainly green, long.
		Sept., 1935	.11	.25	.23	.81	.18	.37	5.6	38.7	2.58	Grass, mainly brown.
		Mar., 1934	.058	.27	.11	.73	.02	.22	4.9	35.2	2.06	Grass, short.
Silverton.....	Umtata.....	June, 1934	.04	.28	.10	.33	.04	.11	3.2	35.8	1.62	Grass, mainly brown, leafy.
		Sept., 1934	.042	.23	.07	.29	.03	.11	4.1	35.3	1.44	Grass, mainly brown, leafy.
		Dec., 1934	.083	.24	.09	.73	.03	.13	5.0	36.2	1.70	Grass, leafy.
		Mar., 1935	.052	.19	.09	.49	.01	.07	2.9	35.4	1.35	Grass, mainly brown, leafy.
		June, 1935	.052	.25	.09	.33	.02	.13	3.4	37.0	1.54	Grass, mainly brown, leafy.
Waterfall.....	Umtata.....	April, 1934	.07	.21	.09	.68	.02	.17	4.9	33.5	1.94	Grass, leafy.
		July, 1934	.048	.27	.08	.31	.01	.07	2.4	34.1	1.47	Grass, brown, leafy.
		Oct., 1934	.073	.21	.10	.49	trace	.12	4.3	33.5	1.73	Grass, mainly brown, short.
		Jan., 1935	.06	.24	.08	.76	.02	.14	3.8	32.7	1.76	Grass, short.
		April, 1935	.085	.30	.10	.60	trace	.11	4.9	31.7	2.26	Grass, mainly brown, short.
Glendon.....	Umtata.....	June, 1934	.056	.35	.11	.68	.01	.20	5.3	32.0	1.92	Grass, mainly brown, leafy.
		Aug., 1934	.047	.37	—	.26	trace	.07	5.1	36.8	1.53	Grass, brown, leafy.
		Nov., 1934	.056	.26	.09	.72	.04	.20	4.6	37.7	1.82	Grass, leafy.
		Feb., 1935	.055	.23	.09	.63	.04	.29	3.7	34.7	1.80	Grass, leafy.
		May, 1935	.078	.28	.09	.43	.02	.08	3.5	37.4	1.46	Grass, leafy.
Aug., 1935	.059	.25	.08	.22	.03	.08	2.9	41.5	0.93	Grass, brown, leafy.		

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 5.

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Silver Streams...	Glen Grey.....	Dec., 1933	.13	.37	.15	1.22	.03	.24	10.4	33.2	3.30	Grass, green, leafy.	
		Mar., 1934	.20	.31	.22	2.05	.04	.32	8.6	34.1	4.07	Grass, mainly green.	
		June, 1934	.05	.38	.08	.42	trace	.09	.05	3.9	33.0	1.68	Grass, brown, leafy.
		Sept., 1934	.045	.38	.11	.14	trace	.05	.05	3.2	34.0	1.49	Grass, brown, leafy.
		Dec., 1934	.12	.28	.06	.89	.02	.18	.08	6.6	33.6	1.93	Grass, mainly green, leafy.
		Mar., 1935	.092	.27	.06	.47	trace	.08	.08	5.0	33.3	1.54	Grass, leafy.
		June, 1935	.11	.25	.09	.54	trace	.07	.07	3.9	39.5	1.66	Grass, mainly brown.
		Sept., 1935	.086	.27	.05	.36	.01	.04	.04	3.2	34.9	1.52	Grass, brown, leafy.
		Matyantyva.....	Glen Grey.....	Jan., 1934	.24	.26	.16	2.29	.04	.42	13.0	32.3	4.55
April, 1934	.11	.23		.08	.85	.03	.19	.54	5.4	36.4	1.87	Grass, mainly green.	
July, 1934	.08	.33		.09	.37	.01	.11	.11	4.1	34.1	1.68	Grass, brown, leafy.	
Oct., 1934	.054	.35		.06	.12	.01	.01	.01	3.3	35.3	1.08	Grass, brown, short.	
Jan., 1935	.074	.25		.05	.35	.03	.13	.13	4.2	31.2	1.45	Grass, leafy.	
April, 1935	.15	.29		.09	.65	.01	.11	.11	6.6	36.5	1.88	Grass, mainly green.	
July, 1935	.12	.25		.07	.33	.02	.08	.08	3.0	36.1	1.30	Grass, brown, leafy.	
Oct., 1935	.11	.26		.08	.61	.01	.09	.09	4.3	32.4	1.38	Grass, brown, leafy.	
Wolfham.....	Glen Grey.....	Feb., 1934		.23	.31	.17	2.60	.06	.47	11.2	34.1	5.40	Grass, green.
May, 1934		.064	.28	.11	.66	.01	.17	.17	4.9	35.7	1.80	Grass, mainly green.	
Aug., 1934		.042	.30	.08	.17	trace	.02	.02	2.8	37.0	1.26	Grass, mainly brown.	
Nov., 1934		.058	.24	.06	.33	trace	.05	.05	3.7	36.9	1.42	Grass, brown, leafy.	
Feb., 1935		.072	.27	.07	.72	trace	.17	.17	3.8	35.2	1.81	Grass, leafy.	
May, 1935		.12	.28	.09	.69	.03	.09	.09	6.3	35.6	1.95	Grass, mainly green.	
Aug., 1935		.076	.29	.09	.35	.01	.10	.10	3.7	33.7	1.52	Grass, brown, leafy.	
Thornvale.....		Queenstown....	Nov., 1933	.20	.52	.24	2.57	.14	.55	9.0	29.4	5.07	Grass, green & bush; mostly grass.
Feb., 1934			.16	.31	.20	2.12	.11	.46	.46	7.5	34.4	4.33	Grass, mainly green.
May, 1934	.19		.46	.32	2.53	.06	.74	.74	9.1	34.4	5.62	Grass, mainly green and bush; mostly grass.	
Aug., 1934	.09		.45	.16	.84	.01	.18	.18	5.5	40.7	2.44	Grass, mainly brown and bush; mostly grass.	
Nov., 1934	.08		.41	.12	.95	.03	.18	.18	5.5	40.2	2.53	Grass, mainly brown and bush.	
Feb., 1935	.19		.34	.17	1.95	.04	.50	.50	9.7	33.4	4.25	Grass, green, leafy.	
May, 1935	.14		.34	.17	1.49	.03	.35	.35	7.5	34.3	3.32	Grass, green, leafy.	
Aug., 1935	.11		.42	.18	.90	.07	.24	.24	6.1	39.8	2.58	Grass, mainly brown.	
Oakleigh.....	Queenstown....		Dec., 1933	.16	.45	.25	2.01	.05	.49	9.0	32.4	4.63	Grass, mainly green and bush; mostly grass.
Mar., 1934		.16	.26	.13	1.68	.06	.40	.40	7.4	36.2	3.84	Grass, mainly green.	
June, 1934		.08	.19	.14	.94	.05	.33	.33	4.0	34.3	2.35	Grass, mainly brown, long.	
Sept., 1934		.10	.29	.36	.93	.04	.29	.29	5.5	38.4	2.25	Grass, mainly brown, short and bush; mostly grass.	
Dec., 1934		.16	.23	.15	1.62	.04	.56	.56	8.4	34.0	3.72	Grass, green, leafy.	
Mar., 1935		.16	.28	.14	1.50	.08	.38	.38	7.6	30.8	3.49	Grass, green.	
June, 1935		.15	.32	.15	1.14	.03	.27	.27	5.1	38.2	3.04	Grass.	
Sept., 1935		.17	.34	.09	1.55	.10	.39	.39	9.3	35.5	3.47	Grass, mainly green, short.	

## AREA 5 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.	
Vlakfontein.....	Queenstown....	Jan., 1934	.17	.37	.38	2.29	.03	.43	9.6	34.8	8.34	Grass, mainly green and bush.	
		April, 1934	.23	.52	.34	2.41	.07	.43	10.1	34.8	5.37	Grass, mainly green and bush; mostly grass.	
		July, 1934	.11	.42	.14	.80	.03	.14	.14	5.2	36.0	2.46	Grass, mainly brown and bush; mostly grass.
		Oct., 1934	.11	.30	.20	1.17	.04	.31	.31	7.0	32.4	2.32	Grass, mainly green and bush; mostly grass.
		Jan., 1935	.15	.34	.18	1.47	.04	.53	.53	8.4	36.9	3.42	Grass, green, leafy.
		April, 1935	.10	.53	.17	1.17	.10	.24	.24	7.2	31.0	4.05	Grass, green.
Hopewell.....	Queenstown....	July, 1935	.15	.49	.20	1.03	.02	.21	6.9	35.0	2.93	Grass, mainly brown and bush.	
		Oct., 1935	.13	.71	.19	1.36	.15	.33	.33	8.4	32.3	4.17	Grass, green, short and bush; mostly grass.
		Dec., 1933	.35	—	—	—	—	.43	.43	16.3	30.1	—	Grass, green, short.
		July, 1934	.13	.31	.10	.46	.01	.03	.03	5.9	34.2	1.82	Grass, brown.
		April, 1935	.22	.47	.18	1.60	.04	.30	.30	11.4	28.5	3.99	Grass, green, short.
		Aug., 1935	.09	.31	.13	.61	.02	.14	.14	5.0	31.5	1.94	Grass, brown, short.
Quebequebe.....	Queenstown....	June, 1934	.17	.40	.10	—	.02	.18	5.0	39.2	2.19	Grass, mainly brown.	
		Oct., 1934	.26	.46	.18	2.00	.05	.58	.58	11.6	27.7	4.53	Grass, mainly green, leafy.
		June, 1935	.21	.27	.19	1.32	.15	.46	.46	7.3	35.7	3.58	Grass.
		Sept., 1935	.19	.52	.14	1.56	.03	.41	.41	10.6	31.5	3.71	Grass, leafy.
		Mar., 1934	.088	.38	.11	1.32	.01	.28	.28	4.9	40.2	2.79	Grass, mainly green.
		Aug., 1934	.067	.22	.08	.32	.01	.02	.02	4.2	36.3	1.33	Grass, mainly brown.
Ixworth.....	Queenstown....	Nov., 1934	.14	.33	.11	1.05	.02	.29	7.6	32.3	2.60	Grass.	
		Feb., 1935	.11	.30	.12	1.21	.03	.32	.32	6.1	36.6	2.67	Grass, mainly green.
		July, 1935	.075	.23	.07	.34	.01	.07	.07	4.4	37.6	1.10	Grass, brown.
		Oct., 1935	.17	.46	.20	.98	.03	.20	.20	8.6	30.0	2.46	Grass, mainly green, short.
		Nov., 1933	.12	.31	.08	.79	.02	.17	.17	6.6	33.3	2.25	Grass, mainly green, leafy.
		Feb., 1934	.088	.40	.11	.76	.03	.20	.20	5.9	31.8	2.55	Grass, mainly green, short.
Dunskeyi.....	Cathcart.....	May, 1934	.077	.41	.15	.82	.02	.21	4.8	29.9	2.37	Grass, leafy.	
		Aug., 1934	.045	.33	.09	.26	.01	.08	4.0	31.2	1.48	Grass, mainly brown, leafy.	
		Dec., 1934	.085	.39	.08	.92	.03	.15	.15	6.0	30.7	2.23	Grass, green, leafy.
		Mar., 1935	.13	.45	.09	.94	.03	.14	.14	5.7	29.6	2.38	Grass, green, short.
		June, 1935	.054	.33	.09	.30	.02	.10	.10	3.4	33.1	1.60	Grass, mainly brown, leafy.
		Sept., 1935	.078	.35	.07	.38	.02	.09	.09	4.1	33.1	1.63	Grass, short.
Ailsa.....	Cathcart.....	Dec., 1933	.16	.29	.12	1.33	.02	.33	9.4	33.3	2.87	Grass, mainly green, short.	
		Mar., 1934	.095	.37	.13	.85	.01	.22	7.1	27.5	2.47	Grass, short.	
		June, 1934	.092	.31	.08	.45	.01	.15	.15	4.2	31.8	1.68	Grass, mainly brown, leafy.
		Sept., 1934	.06	.32	.07	.36	.01	.08	.08	6.0	32.4	1.74	Grass, mainly brown, leafy.
		Jan., 1935	.07	.39	.09	.75	.02	.25	.25	5.7	30.8	2.08	Grass, green, short.
		April, 1935	.08	.35	.11	.51	.03	.10	.10	6.0	30.7	3.39	Grass, green, short.
Ailsa.....	Cathcart.....	July, 1935	.072	.39	.11	.27	.03	.08	2.8	32.6	1.53	Grass, mainly brown, leafy.	
		Oct., 1935	.12	.36	.14	1.32	.02	.27	9.3	28.8	2.81	Grass, green, 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.
The Plains.....	Cathcart.....	Jan., 1934	.13	.29	.09	1.23	.03	.14	7.6	35.1	3.03	Grass, mainly green.
		April, 1934	.08	.37	.10	.58	.02	.13	5.6	34.9	1.89	Grass.
		July, 1934	.064	.35	.11	.33	.03	.23	3.3	36.0	1.78	Grass, mainly brown, leafy.
		Oct., 1934	.078	.33	.08	.46	.03	.15	4.5	32.5	1.54	Grass, leafy.
		Feb., 1935	.12	.45	.12	1.15	.04	.22	7.6	30.4	2.78	Grass, green, short.
		May, 1935	.086	.44	.09	.62	.02	.16	4.6	30.6	2.07	Grass, mainly green, short.
		Aug., 1935	.088	.33	.08	.48	.03	.11	3.6	38.7	1.72	Grass, mainly brown, leafy.
		Nov., 1933	.30	.54	.16	2.61	.06	.56	18.7	25.5	6.18	Grass, green, short.
Alexandria.....	Sterkstroom....	Aug., 1934	.21	.44	.12	.33	trace	.02	5.1	35.3	2.02	Grass, brown, leafy.
		Nov., 1934	.13	.47	.07	.71	trace	.08	5.1	31.8	2.39	Grass, leafy.
		April, 1935	.10	.33	.12	.78	.04	.16	6.6	32.3	2.23	Grass, green, leafy.
		July, 1935	.068	.33	.11	.24	trace	.07	3.5	39.7	1.50	Grass, brown, leafy.
		Oct., 1935	.093	.33	.09	.68	trace	.09	5.5	34.6	2.00	Grass, mainly green, leafy.
		Dec., 1933	.31	.51	.24	2.76	.07	.74	19.1	24.9	7.45	Grass, green.
		April, 1934	.20	.57	.22	1.24	.04	.35	8.2	30.9	3.99	Grass, leafy.
		June, 1934	.26	.58	.14	.49	.03	.32	4.5	32.1	2.65	Grass, brown, leafy.
Blenheim.....	Sterkstroom....	Sept., 1934	.12	.28	.18	.46	.01	.11	4.6	38.0	1.96	Grass, mainly brown, leafy.
		Dec., 1934	.24	.35	.13	1.67	.05	.20	7.8	31.8	3.37	Grass, green, leafy.
		Mar., 1935	.20	.46	.12	.93	.05	.16	6.0	27.3	2.83	Grass, green, leafy.
		June, 1935	.19	.44	.15	.75	.02	.12	4.4	32.9	2.62	Grass, brown, short.
		Sept., 1935	.07	.24	.05	.37	.01	.09	5.5	31.7	1.48	Grass, brown, leafy.
		April, 1934	—	.21	.16	.88	.03	—	3.7	30.0	2.11	Grass, leafy.
		July, 1934	.12	.30	.09	.30	.01	.03	2.7	35.6	1.56	Grass, brown, leafy.
		Oct., 1934	.18	.37	.10	.58	.03	.35	5.8	34.3	2.10	Grass, mainly brown, leafy.
Bell View.....	Sterkstroom....	Jan., 1935	.20	.37	.12	1.06	.19	.29	6.4	35.2	2.99	Grass, mainly green, leafy.
		Nov., 1933	.15	.34	.11	1.41	.07	.31	9.9	32.2	3.39	Grass, mainly green.
		Feb., 1934	.15	.28	.12	1.50	.08	.35	8.7	31.9	3.36	Grass, mainly green, short.
		May, 1934	.11	.31	.10	1.18	.08	.34	7.8	33.0	3.00	Grass, mainly green, short.
		Aug., 1934	.06	.26	.09	.33	.01	.07	4.5	34.1	1.41	Grass, brown, leafy.
		Nov., 1934	.10	.30	.12	1.37	.05	.38	8.2	33.8	3.10	Grass, mainly green, leafy.
		Feb., 1935	.10	.28	.09	.86	.09	.25	5.7	30.4	2.25	Grass, mainly green, leafy.
		May, 1935	.14	.39	.12	.95	.11	.19	7.3	33.9	2.48	Grass, mainly green, short.
Riverina.....	Stutterheim....	Aug., 1935	.06	.31	.12	.25	.05	.09	3.1	36.1	1.69	Grass, brown, leafy.
		Dec., 1933	.11	.30	.12	1.20	.05	.18	8.1	36.3	2.87	Grass, mainly green.
		Mar., 1934	.09	.24	.10	.92	.04	.17	6.8	35.1	2.23	Grass, mainly green, leafy.
		June, 1934	.05	—	.08	.36	.01	.08	5.1	32.9	1.58	Grass, mainly brown, short.
		Sept., 1934	.058	.34	.10	.36	.03	.11	4.6	32.0	1.64	Grass, mainly brown, leafy.
		Dec., 1934	.11	.39	.10	1.16	.11	.21	8.1	33.3	2.82	Grass, mainly green, leafy.
		Mar., 1935	.08	.34	.11	.78	.02	.17	5.3	35.8	2.06	Grass, mainly green, leafy.
		July, 1935	.044	.33	.05	.28	.02	.11	3.4	32.3	2.03	Grass, mainly green, leafy.
Clevedon.....	Stutterheim....	Sept., 1935	.053	.29	.08	.30	.02	.12	3.8	33.6	1.53	Grass, leafy.

AREA 5 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Champagne .....	Stutterheim.....	Jan., 1934	.15	.25	.11	1.38	.21	.38	8.3	34.9	3.44	Grass, mainly green.
		April, 1934	.074	.46	.11	.72	.04	.22	6.5	35.3	2.68	Grass, leafy.
		July, 1934	.052	.19	.09	.31	.01	.08	4.4	38.0	1.58	Grass, mainly brown, short.
		Oct., 1934	.07	.24	.09	.41	.05	.13	5.0	31.3	1.52	Grass, mainly brown, leafy.
		Jan., 1935	.13	.26	.11	.94	.18	.28	6.7	30.6	2.69	Grass, green, short.
		April, 1935	.088	.34	.11	.80	.08	.12	5.5	32.7	2.07	Grass, mainly green, leafy.
		June, 1935	.06	.25	.08	.42	.02	.10	4.0	37.3	1.54	Grass, mainly brown, short.
		Oct., 1935	.095	.29	.09	.72	.06	.12	6.7	35.1	2.27	Grass, green, leafy.
		Dec., 1933	.26	.79	.30	3.54	.23	.82	16.3	23.6	8.42	Grass, mainly green.
		Feb., 1934	.10	—	—	—	—	.26	—	32.8	—	Grass, mainly green, short.
Redlands .....	Stutterheim.....	May, 1934	.065	.24	.09	.46	.02	.09	4.8	36.7	2.04	Grass, mainly brown, leafy.
		Aug., 1934	.15	.30	.15	.84	.11	.23	5.4	34.7	2.60	Grass, mainly brown, short.
		Nov., 1934	.18	.17	.11	1.73	.26	.73	10.4	31.5	3.87	Grass, mainly green, short.
		Feb., 1935	.092	.26	.09	.84	.06	.07	5.9	28.9	2.88	Grass, mainly green, short.
		May, 1935	.10	.26	.10	.51	.04	.12	5.5	34.5	1.91	Grass, leafy.
		Aug., 1935	.047	.37	.11	.30	.01	.05	3.6	39.7	1.88	Grass, mainly brown, leafy.
		Dec., 1933	—	.26	.12	1.92	.18	—	8.1	33.6	4.07	Grass.
		April, 1934	.09	.21	.09	.61	.03	.18	5.2	33.9	2.00	Grass, short.
		June, 1934	.09	.31	.10	.82	.04	.29	6.6	33.2	2.38	Grass, mainly brown, short and bush; mostly grass.
		Sept., 1934	.13	.22	.16	1.35	.28	.76	8.3	31.4	2.90	Grass, short.
Wetherrun .....	Stutterheim.....	Dec., 1934	.11	.28	.10	1.62	.15	.65	10.2	33.9	3.73	Grass, mainly green, short.
		Mar., 1935	.15	.22	.10	1.10	.11	.29	7.1	31.9	2.74	Grass, green, leafy.
		June, 1935	.062	.30	.08	.31	trace	.09	4.0	32.8	1.56	Grass, mainly green, leafy.
		Sept., 1935	.07	.25	.09	.61	.09	.34	5.0	31.8	2.05	Grass, green, short.
		Jan., 1934	.10	.71	.26	1.16	.06	.26	4.9	35.9	2.90	Grass, short.
		Mar., 1934	.07	.26	.10	.71	.02	.15	5.1	32.3	2.01	Grass, short.
		July, 1934	.05	.23	.10	.36	.01	.10	4.0	35.1	1.81	Grass, mainly brown, short.
		Oct., 1934	.15	.19	.14	1.16	.14	.39	8.8	—	2.86	Grass, short.
		Jan., 1935	.068	.26	.10	.91	.03	.27	5.3	34.0	2.41	Grass, mainly green, short.
		April, 1935	.20	.26	.11	.53	.19	.38	8.2	30.6	3.63	Grass, mainly green, leafy.
Kei Slopes .....	Kongha.....	July, 1935	.063	.25	.08	.46	.02	.15	4.3	35.5	1.59	Grass, mainly brown, short.
		Oct., 1935	.14	.21	.10	.84	.13	.23	6.7	33.3	2.50	Grass, leafy.
		Nov., 1933	.052	.24	.19	—	.21	.20	3.1	43.7	1.63	Grass, mainly brown, short.
		June, 1934	.034	.23	.09	.31	.04	.12	3.1	37.8	1.35	Grass, mainly brown.
		Aug., 1934	.10	.23	—	.51	.06	.07	5.7	36.4	1.81	Grass.
		April, 1935	.058	.26	.09	.33	.05	.08	4.4	33.7	1.72	Grass, leafy.
		Mar., 1934	.10	.38	.10	.90	.12	.24	5.8	40.9	2.30	Grass, long.
		July, 1934	.063	.29	.10	.52	.08	.22	4.4	37.6	1.86	Grass, mainly brown.
		Nov., 1934	.25	.27	.09	1.93	.17	.37	11.7	36.0	4.14	Grass, leafy.
		June, 1935	.036	.33	.09	.28	.03	.13	3.5	38.2	1.68	Grass, mainly brown.

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.
Onverwacht.....	Kongha.....	April, 1934	.083	.27	.10	.90	.04	.14	5.6	35.8	1.92	Grass, mainly brown.
		Aug., 1934	.052	.21	.08	.24	.07	.14	4.0	39.6	1.21	Grass, mainly green, leafy.
		Nov., 1934	.08	.23	.08	.52	.02	.15	5.7	32.9	1.72	Grass, green.
		Feb., 1935	.09	.27	.06	.94	.11	.29	5.0	35.8	2.83	Grass, mainly green.
		May, 1935	.082	.28	.07	.81	.07	.24	5.9	29.3	2.05	Grass, mainly green.
Austin No. 250....	Kongha.....	Nov., 1933	.11	.63	.22	1.07	.20	.42	9.8	27.8	3.86	Grass and bush; mostly grass.
		Feb., 1934	.16	.80	.24	1.79	.09	.46	10.6	31.6	5.28	Grass, mainly green and bush; mostly grass.
		May, 1934	.086	.26	.11	.81	.18	.33	6.9	34.8	2.39	Grass, leafy.
		July, 1935	.11	.53	.20	.59	.13	.30	7.8	33.1	2.60	Grass and bush; mostly grass.
Oct., 1935			.078	.44	.22	.62	.06	.21	7.3	34.0	2.79	Grass, mainly green and bush; mostly grass.
Glenkei.....	Kongha.....	Dec., 1933	.22	.39	.14	1.76	.30	.31	11.6	32.4	4.52	Grass, mainly green.
		Mar., 1934	.11	1.19	.26	.98	.12	.33	8.1	32.3	4.85	Grass, green and bush.
		June, 1934	.072	.32	.11	.52	.13	.18	6.4	35.1	2.02	Grass, mainly green.
		Aug., 1934	.16	.61	.17	.84	.13	.21	9.9	28.2	3.51	Grass, short and bush; mostly grass.
		Nov., 1934	.13	.50	.17	1.12	.19	.33	10.4	34.7	3.29	Grass, green, leafy and bush; mostly grass.
		Jan., 1935	.068	.41	.12	.90	.11	.33	6.3	33.2	2.58	Grass, green, leafy.
		Mar., 1935	.11	.44	.20	1.02	.25	.34	8.4	32.6	3.64	Grass and bush; mostly grass.
		June, 1935	.16	.88	.25	1.21	.09	.27	11.5	29.1	4.54	Grass, green, leafy and bush; mostly grass.
		Sept., 1935	.11	1.09	.28	.92	.07	.45	9.2	30.7	4.85	Grass, leafy and bush.
Belladonna.....	Kongha.....	Jan., 1934	.10	.39	.11	.90	.21	.34	7.2	33.5	2.77	Grass, mainly green.
		April, 1934	.14	.44	.18	1.23	.17	.32	9.5	31.7	3.26	Grass, mainly green and bush; mostly grass.
		July, 1934	.055	.69	.19	.51	.05	.21	3.5	27.9	2.83	Grass, mainly brown and bush; mostly grass.
		Oct., 1934	.12	.61	.23	.72	.15	.19	9.0	25.5	2.99	Grass, short and bush; mostly grass.
		Dec., 1934	.10	.45	.14	.95	.18	.35	8.1	30.5	3.06	Grass, green, leafy and bush; mostly grass.
		Feb., 1935	.078	.75	.25	1.35	.15	.45	6.7	31.2	4.27	Grass, mainly green, leafy and bush; mostly grass.
		April, 1935	.092	.46	.16	1.03	.13	.26	6.6	34.3	2.94	Grass, leafy.
		May, 1935	.13	.82	.20	1.10	.17	.28	10.3	38.6	3.94	Grass, leafy and bush; mostly grass.
		Aug., 1935	.14	.49	.25	.39	.20	.21	7.0	30.7	2.73	Grass, mainly green, leafy and bush; mostly grass.

## AREA 5 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.
Castledondale....	Komgha.....	Nov., 1933	.11	.19	.09	.90	.14	.22	7.4	37.9	2.28	Grass.
		June, 1934	.042	.38	.09	.36	.03	.09	3.1	37.1	1.69	Grass.
		Mar., 1935	.004	.25	.09	.52	.04	.15	4.3	37.2	1.81	Grass, leafy.
Gonubie Park....	East London...	Nov., 1933	.12	.32	.13	1.34	.25	.38	9.5	36.9	3.63	Grass, and bush; mostly grass.
		Feb., 1934	.20	.41	.19	2.09	.40	1.04	14.3	34.0	5.79	Grass, mainly green, short.
		May, 1934	.085	.19	.13	1.05	.13	.28	4.7	36.6	2.54	Grass, leafy.
		Aug., 1934	.10	.28	.17	.77	.18	.28	6.4	37.5	2.94	Grass, short.
		Nov., 1934	.086	.20	.18	.88	.19	.49	5.4	36.0	2.67	Grass, mainly green, leafy.
		Feb., 1935	.06	.16	.09	.52	.14	.06	3.2	34.3	2.03	Grass, short.
		May, 1935	.10	.33	.15	.89	.38	.28	7.5	37.5	3.40	Grass, mainly green, leafy.
		Aug., 1935	.13	.24	.16	.54	.20	.31	5.2	37.5	2.41	Grass, leafy.
Rocklands.....	East London...	Dec., 1933	.12	.29	.15	1.40	.21	.44	8.8	33.2	3.84	Grass, mainly green, short.
		Mar., 1934	.24	.35	.13	1.54	.35	.68	10.8	32.5	4.26	Grass, mainly green.
		June, 1934	.085	.27	.14	.76	.43	.74	6.4	31.0	3.67	Grass, short.
		Sept., 1934	.10	.28	.11	1.05	.72	.96	9.9	32.0	3.92	Grass, mainly green, short.
		Jan., 1935	.12	.24	.16	1.13	.13	.41	6.5	34.3	2.90	Grass, mainly green, leafy.
		Mar., 1935	.075	.19	.13	.44	.17	.40	4.7	37.3	2.13	Grass, mainly green short.
		June, 1935	.16	.16	.10	.62	.12	.40	7.6	32.3	2.69	Grass, mainly green, short.
		Sept., 1935	.10	.20	.06	.83	.17	.41	6.9	38.7	2.52	Grass, mainly green, leafy.
		Jan., 1934	.10	.56	.20	1.45	.39	.65	9.4	32.0	4.37	Grass, mainly green and bush; mostly grass.
		April, 1934	.16	.27	.14	1.30	.22	.50	8.0	37.4	3.50	Grass, mainly green, leafy.
The Waterfall....	East London...	July, 1934	.075	.20	.11	.68	.15	.45	7.1	38.0	2.17	Grass, leafy.
		Oct., 1934	.062	.25	.12	.65	.10	.25	5.3	33.8	2.05	Grass, mainly green, leafy.
		Jan., 1935	.085	.19	.11	1.02	.14	.45	5.4	36.3	2.59	Grass, short.
		April, 1935	.066	.24	.11	.58	.09	.28	4.8	34.2	1.93	Grass, leafy.
		July, 1935	.07	.23	.11	.44	.06	.20	4.1	38.4	1.75	Grass, leafy.
		Oct., 1935	.074	.18	.13	.59	.16	.39	5.1	38.7	2.55	Grass, mainly green, leafy.
		May, 1934	.086	.29	.14	.56	.08	.23	4.6	36.9	1.91	Grass.
		Aug., 1934	.06	.28	.15	.14	.14	.11	3.2	39.0	1.48	Grass, mainly brown.
		Nov., 1934	.08	.27	.10	.37	.05	.09	4.3	38.0	1.76	Grass, mainly brown.
		Feb., 1935	.12	.25	.15	.89	.15	.43	6.3	33.1	2.50	Grass, mainly green.
Foray Farm.....	Butterworth....	May, 1935	.11	.33	.13	.38	.04	.06	3.7	36.0	1.70	Grass.
		Aug., 1935	.08	.24	.15	.26	.25	.27	3.4	36.0	2.00	Grass, mainly brown.
		Oct., 1935	.06	.27	.14	.29	.03	.03	2.9	40.5	1.66	Grass, brown.
		Feb., 1934	.11	.24	.08	.85	.15	.43	7.6	43.2	2.96	Grass, mainly green.
		June, 1934	.07	.26	.08	.62	.28	.52	5.5	39.3	2.53	Grass.
		Dec., 1934	.17	.28	.10	1.48	.12	.46	10.8	33.9	3.26	Grass, green.
Mhlambe.....	Butterworth....	Mar., 1935	.052	.28	.09	.24	.02	.05	2.7	35.9	1.31	Grass, long.
		June, 1935	.12	.37	.15	1.11	.07	.27	6.5	32.7	2.79	Grass, mainly green.
		Sept., 1935	.035	.19	.06	.13	.03	.09	2.4	40.0	1.05	Grass, brown.

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.	
Fortune.....	Butterworth.....	April, 1934	.086	.22	.11	.91	.08	.37	5.5	39.6	2.36	Grass, mainly green.	
		July, 1934	.07	.25	.09	.31	.15	.27	3.2	37.4	1.66	Grass, mainly brown.	
		Oct., 1934	.058	.20	.05	.22	.04	.06	.38	35.9	1.40	Grass.	
		Jan., 1935	.11	.23	.12	.96	.07	.34	.64	36.3	2.22	Grass, mainly green.	
		April, 1935	.11	.23	.10	.60	.24	.39	.39	4.5	34.8	2.10	Grass, mainly green.
		July, 1935	.12	.32	.12	.49	.06	.18	.44	4.4	34.2	2.04	Grass, leafy.
		Nov., 1933	.12	.32	.10	.71	.20	.18	.54	5.4	32.9	2.43	Grass, mainly brown.
Reed Valley.....	Alexandria.....	Feb., 1934	.14	.30	.10	.67	.11	.23	6.2	32.5	2.19	Grass, short.	
		May, 1934	.10	.18	.07	.62	.12	.73	4.4	34.6	1.84	Grass, mainly brown, short.	
		Aug., 1934	.16	.29	—	.65	.08	.20	6.9	33.5	2.23	Grass, short.	
		Nov., 1934	.16	.48	.12	1.46	.17	.44	8.7	32.2	3.86	Grass, mainly green.	
		Feb., 1935	.08	.26	.06	.39	.07	.11	4.4	4.4	34.8	1.77	Grass, mainly brown.
		May, 1935	.074	.33	.10	.45	.15	.18	3.4	34.6	2.28	Grass, short and bush; mostly grass.	
		Aug., 1935	.14	.34	.12	1.08	.59	.55	8.6	34.7	3.56	Grass, mainly green, short.	
		Dec., 1933	.066	.18	.07	.62	.12	.15	3.7	36.2	1.97	Grass, mainly brown, short.	
		Mar., 1934	.066	.22	.07	.89	.11	.22	5.5	36.5	2.42	Grass, short.	
		June, 1934	.04	.24	.06	.42	.09	.10	3.5	33.7	1.67	Grass, mainly green, short.	
Thorn Valley.....	Alexandria.....	Sept., 1934	.05	.22	.08	.59	.13	.21	4.7	33.3	1.79	Grass, short.	
		Dec., 1934	.06	.22	.08	.87	.22	.38	5.1	34.9	2.48	Grass, mainly green, leafy.	
		Mar., 1935	.044	.23	.06	.29	.09	.10	3.4	33.4	1.50	Grass, mainly brown, leafy.	
		June, 1935	.07	.27	.10	.46	.03	.13	4.9	36.0	1.95	Grass, mainly green, short.	
		Sept., 1935	.085	.49	.08	.55	.09	.19	5.2	31.7	2.67	Grass, mainly green, short.	
		Jan., 1934	.24	.24	.08	1.42	.09	.46	8.5	37.2	3.43	Grass, mainly green.	
		April, 1934	.26	.28	.13	1.86	.42	.73	8.4	31.1	4.76	Grass, mainly green.	
		July, 1934	.32	.24	.12	1.19	.21	.33	12.4	29.2	3.41	Grass, mainly green, short.	
		Oct., 1934	.39	.38	.15	1.82	.56	.53	9.3	29.9	4.82	Grass, green.	
		April, 1935	.23	.41	.13	1.69	.41	.39	12.2	28.7	4.63	Grass, mainly green, leafy.	
Kruisfontein.....	Alexandria.....	July, 1935	.29	.33	.13	1.68	.35	.52	11.4	31.0	5.74	Grass, mainly green, short.	
		Oct., 1935	.28	.93	.20	2.71	.41	1.07	12.8	31.3	8.16	Grass, green and bush; mostly grass.	
		Nov., 1933	.13	.79	.23	1.47	.41	.39	9.1	32.1	6.24	Bush.	
		Feb., 1934	.23	1.12	.39	2.45	.62	.52	9.7	24.8	8.72	Grass, mainly green and bush; mostly bush.	
		May, 1934	.30	.57	.27	1.85	.16	.52	7.2	35.1	4.98	Grass and bush; mostly grass.	
		Aug., 1934	.14	1.22	—	1.38	.28	.35	8.5	30.3	5.78	Grass, mainly brown and bush.	
		Mar., 1935	.048	.22	.07	.37	.06	.14	3.7	35.3	1.50	Grass.	
		Dec., 1933	.07	.22	.09	.68	.03	.08	4.6	32.5	2.01	Grass, short.	
		Mar., 1934	.056	.21	.08	.74	.02	.18	4.4	33.6	1.75	Grass, short.	
		June, 1934	.042	.21	.07	.35	.02	.09	3.7	34.6	1.47	Grass, mainly brown, short and bush; mostly grass.	
Mayfield.....	Albany.....	Sept., 1934	.06	.25	.10	.49	.06	.12	4.2	37.5	1.87	Grass, mainly brown, short and bush; mostly grass.	



## AREA 5 (continued).

Farm.	District.	Date.	P.	Ca.	Mg.	K.	Na.	Cl.	Crude Protein.	Crude Fibre.	Soluble Ash.	Description of Sample.		
Sydney's Hope...	Albany.....	Jan., 1934	.075	.34	.12	.89	.19	.26	—	37.6	3.88	Grass, green, short and bush. Grass, short and bush; mostly grass.		
		April, 1934	.087	.52	.11	.74	.09	.19	.19	6.7	35.5		2.54	
		July, 1934	.046	.28	.06	.41	.01	.09	.09	3.9	34.5	1.54	Grass, mainly brown, short. Grass, mainly green, short. Bush.	
		Oct., 1934	.082	.29	.10	.57	.12	.22	.22	5.3	35.2	2.23		
		April, 1935	.14	.85	.77	2.35	1.25	.88	11.3	20.6	9.78			
Mountain Home..	Kingwilliams-town	Nov., 1933	.11	.26	.09	.75	.06	.12	5.0	34.5	2.28	Grass. Grass, mainly green.		
		Feb., 1934	.24	.22	.09	1.52	.36	.17	.17	10.5	32.4		3.91	
		May, 1934	.17	.38	.15	.85	.19	.42	.42	.42	5.2	35.5	2.66	Grass, leafy. Grass, mainly brown.
		Aug., 1934	.13	.31	.14	.87	.24	.33	.33	5.6	35.5	2.71		
		Nov., 1934	.17	.37	.14	1.33	.42	.64	.64	10.8	33.5	4.05	Grass, mainly green. Grass, mainly green.	
		Jan., 1935	.18	.32	.17	1.39	.35	.73	.73	8.7	33.2	4.08		
		Mar., 1935	.15	.27	.07	.54	.11	.15	.15	4.0	35.0	1.94	Grass, mainly green. Grass, leafy.	
		July, 1935	.13	.26	.08	.53	.08	.19	.19	4.7	37.1	1.85		
				Oct., 1935	.08	.26	.24	.62	.03	.09	4.9	36.0	2.25	Grass, mainly brown.
		Fort Cox.....	Kingwilliams-town	Dec., 1933	.11	.24	.24	1.37	.16	.40	7.2	34.8	3.27	Grass, mainly green. Grass, mainly green.
Mar., 1934	.13			.50	.15	1.23	.11	.29	.29	7.6	35.8	3.28		
June, 1934	.13			.42	.14	1.04	.20	.39	.39	7.0	34.5	3.24	Grass and bush; mostly grass. Grass and bush; mostly grass.	
Sept., 1934	.11			.36	.35	.60	.07	.12	.12	6.6	35.9	2.29		
Nov., 1934	.17			.24	.28	1.42	.17	.48	.48	8.3	33.5	3.44	Grass, mainly green. Grass, green and bush; mostly grass.	
Feb., 1935	.14			.33	.23	.99	.33	.35	.35	7.7	32.7	3.28		
				April, 1935	.18	.51	.19	.89	.32	.39	9.4	33.4	3.44	Grass, mainly green, leafy. Grass, mainly green and bush; mostly grass.
May, 1935	.18			.33	.37	1.22	.25	.19	.19	10.5	34.2	3.52		
				Aug., 1935	.12	.76	.40	.74	.30	.30	9.9	26.4	3.94	Grass, mainly green and bush; mostly grass.
Mngqesha.....	Kingwilliams-town			Jan., 1934	.098	.31	.14	1.25	.15	.54	7.0	34.2	2.93	Grass, mainly green. Grass, mainly green.
		April, 1934	.13	.39	.17	.92	.20	.41	.41	7.2	34.8	2.97		
		July, 1934	.15	.33	.08	.54	.13	.21	.21	4.4	35.5	2.16	Grass, mainly brown, leafy. Grass.	
		Oct., 1934	.077	.22	.11	.49	.05	.11	.11	5.0	34.3	1.89		
		June, 1935	.12	.33	.10	.66	.08	.23	.23	4.4	37.8	2.34	Grass, mainly green. Grass, mainly green.	
		Sept., 1935	.11	.28	.10	.82	.10	.43	.43	6.7	37.1	2.42		
Bekruipkop.....	Kingwilliams-town	Nov., 1933	.053	.48	.10	.63	.06	.32	4.5	40.0	2.49	Grass, mainly brown. Grass, mainly green.		
		Feb., 1934	.093	.29	.09	.83	.12	.24	.24	5.3	34.4		2.63	
		May, 1934	.073	.20	.15	.77	.07	.36	.36	5.7	33.9	2.22	Grass, leafy. Grass, mainly brown, leafy.	
		Aug., 1934	.068	.22	.10	.45	.05	.12	.12	4.1	34.5	1.68		
				April, 1935	.11	.64	.11	.91	.11	.26	7.8	35.7	2.22	Grass, mainly green.

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.
Welcome Wood..	Kingwilliams-town	Dec., 1933	.08	.22	.13	.95	.08	.39	5.7	36.4	2.64	Grass, mainly green.
		Mar., 1934	.10	.21	.09	.73	.12	.22	5.9	36.2	2.06	Grass, mainly green.
		June, 1934	.087	.19	.11	.71	.13	.25	4.3	35.7	2.08	Grass, mainly brown, leafy.
		Sept., 1934	.056	.21	.11	.54	.06	.16	4.8	35.7	1.85	Grass.
		Mar., 1935	.08	.28	.17	1.14	.17	.41	5.7	33.9	2.45	Grass, mainly green.
Cornfield.....	Kingwilliams-town	Jan., 1934	.12	.18	.10	1.34	.17	.51	8.2	37.4	3.19	Grass, mainly green.
		April, 1934	.08	.24	.10	.86	.11	.38	7.4	34.3	2.38	Grass, mainly green, short.
		July, 1934	.12	.23	.12	.81	.12	.36	4.5	35.9	2.35	Grass, mainly brown, leafy.
		Oct., 1934	.07	.17	.09	.64	.07	.13	4.9	35.0	1.73	Grass.
		Feb., 1935	.067	.50	.20	.95	.12	.37	5.1	33.2	3.28	Grass, mainly brown and bush; mostly grass.
		May, 1935	.092	.40	.17	.92	.16	.41	6.9	32.3	3.07	Grass, mainly green, short.
Thornpark.....	Kingwilliams-town	Jan., 1934	.15	.24	.12	2.00	.20	.62	10.2	36.4	4.07	Grass, mainly green.
		July, 1934	.077	.34	.10	.61	.08	.19	4.5	39.6	2.08	Grass, mainly brown.
		Mar., 1935	.20	.40	.12	1.23	.31	.39	6.7	32.0	3.63	Grass, green, leafy.
Kingsdale.....	Kingwilliams-town	Feb., 1934	.21	.18	.09	1.86	.32	.71	6.4	39.4	4.44	Grass, mainly green.
		June, 1935	.084	.32	.13	.63	.08	.20	5.5	35.1	2.17	Grass, leafy.
Allandale.....	Victoria East..	Nov., 1933	.32	.36	.19	2.83	.27	.88	13.4	32.7	6.42	Grass, green.
		Aug., 1934	.068	.29	—	.50	.05	.14	5.8	35.6	1.81	Grass, mainly brown.
Blackwoods.....	Victoria East..	Mar., 1934	.11	.32	.11	1.20	.04	.29	6.3	39.1	2.75	Grass, mainly green.
		June, 1934	.09	.40	.10	.54	.04	.14	4.1	34.3	2.03	Grass, mainly brown.
Binfield Park....	Victoria East..	Jan., 1934	.11	.20	.16	.98	.01	.33	6.7	36.8	2.70	Grass, mainly green.
		Nov., 1934	.078	.31	.11	.71	.02	.16	5.5	34.2	2.03	Grass, leafy.
Rietfontein.....	Fort Beaufort..	Feb., 1934	.18	1.06	.33	1.70	.17	.69	9.7	28.3	6.60	Grass and bush.
		May, 1934	.17	.51	.20	2.04	.42	.68	8.3	32.7	5.47	Grass, mainly green and bush; mostly grass.
		Aug., 1934	.13	.71	—	1.14	.28	.53	6.8	29.9	4.24	Grass, leafy and bush; mostly grass.
		Dec., 1934	.15	.44	.21	1.83	.25	.83	7.8	38.0	4.71	Grass, mainly green.
		Mar., 1935	.19	.33	.16	1.02	.33	.15	6.3	36.4	3.19	Grass, leafy.
		June, 1935	.16	.42	.21	1.30	.17	.41	11.2	31.1	5.33	Grass, mainly green.
		Sept., 1935	.13	.41	.13	1.06	.13	.26	7.9	35.3	3.14	Grass, leafy.