

AREA 10 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|--------------------------------|----------------|-------------|------|------|-----|------|-------|-----|----------------|--------------|--------------|--|
| Vrienden No. 1066 (Messina) | Zoutpansberg.. | Nov., 1933 | .11 | .54 | .22 | 1.18 | .04 | .25 | 6.0 | 39.7 | 3.22 | Grass, long. |
| | | Feb., 1934 | .19 | .73 | .22 | 2.43 | .05 | .43 | 6.9 | 39.2 | 5.54 | Grass, mainly green. |
| | | May, 1934 | .19 | .46 | .15 | .95 | .02 | .14 | 4.1 | 34.9 | 2.78 | Grass, mainly brown, long, and bush; mostly grass. |
| | | Aug., 1934 | .20 | .37 | .17 | 1.05 | .03 | .11 | 4.2 | 37.5 | 2.91 | Grass, brown, long, and bush; mostly grass. |
| | | Nov., 1934 | .11 | .32 | .15 | .95 | .07 | .13 | 5.1 | 36.2 | 2.50 | Grass, brown, long, and bush. |
| | | Feb., 1935 | .11 | .59 | .13 | 1.01 | .04 | .27 | 7.4 | 34.3 | 3.13 | Grass and bush; mostly grass. |
| | | May, 1935 | .13 | .47 | .10 | .73 | .02 | .04 | 4.9 | 33.7 | 2.60 | Grass, mainly brown, and bush. |
| | | Aug., 1935 | .11 | .53 | .10 | .53 | .03 | .10 | 4.3 | 36.5 | 2.33 | Grass, brown, and bush; mostly grass. |
| Cromer No. 847 (Messina) | Zoutpansberg.. | Dec., 1933 | .20 | .73 | .25 | 1.98 | .04 | .37 | 9.9 | 36.4 | 5.54 | Grass, mainly brown, and bush; mostly grass. |
| | | Mar., 1934 | .20 | 1.05 | .32 | 1.69 | .23 | .36 | 8.0 | 33.2 | 5.84 | Grass, mainly green, and bush; mostly grass. |
| | | June, 1934 | .12 | 1.02 | .27 | 1.00 | .15 | .25 | 5.9 | 38.0 | 4.96 | Grass, mainly brown, long, and bush. |
| | | Sept., 1934 | .074 | .54 | .22 | 1.18 | .20 | .32 | 6.6 | 38.8 | 3.60 | Grass, brown, long, and bush. |
| | | Dec., 1934 | .14 | .50 | .13 | 1.46 | .17 | .34 | 9.8 | 36.3 | 3.81 | Grass, mainly green, long, and bush; mostly grass. |
| | | Mar., 1935 | .13 | .66 | .42 | 1.11 | .51 | .62 | 9.5 | 31.5 | 4.75 | Grass, mainly green, and bush. |
| | | June, 1935 | .11 | .58 | .24 | .74 | .02 | .27 | 5.3 | 38.8 | 3.30 | Grass, brown, long. |
| | | Sept., 1935 | .072 | .40 | .26 | .79 | .30 | .42 | 6.4 | 39.6 | 3.23 | Grass, mainly brown, and bush; mostly grass. |
| Rosentawitch (Messina) | Zoutpansberg.. | Nov., 1933 | .13 | .20 | .08 | .24 | trace | .06 | 6.7 | 36.1 | 2.52 | Grass, brown, and bush; mostly grass. |
| | | Feb., 1934 | .11 | .34 | .22 | 2.17 | .03 | .54 | 4.6 | 37.4 | 4.25 | Grass, mainly green. |
| | | June, 1934 | .20 | .74 | .19 | 1.65 | .06 | .40 | 4.7 | 37.8 | 5.14 | Grass, brown, and bush; mostly grass. |
| | | Sept., 1934 | .11 | .94 | .14 | 1.23 | .04 | .23 | 5.5 | 36.7 | 4.46 | Grass, brown, and bush; mostly grass. |
| | | Jan., 1935 | .14 | 1.08 | .20 | 1.01 | .02 | .19 | 7.5 | 33.4 | 4.53 | Grass, brown, short, and bush. |
| Dover No. 819 (Messina) | Zoutpansberg.. | Dec., 1933 | — | .54 | .31 | 3.35 | .20 | — | 9.9 | 34.2 | 7.20 | Grass, green. |
| | | Mar., 1934 | .13 | .39 | .25 | 2.38 | .26 | .63 | 8.2 | 35.3 | 6.00 | Grass, mainly green. |
| | | May, 1934 | .11 | .59 | .26 | 1.52 | .07 | .30 | 4.8 | 37.5 | 3.86 | Grass, mainly brown. |
| | | May, 1935 | .12 | 1.55 | .45 | 1.10 | .18 | .25 | 10.3 | — | 6.74 | Bush |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 10 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|-----------------------------|----------------|-------------|------|------|-----|------|-----|-----|----------------|--------------|--------------|--|
| Te Velde (Messina) | Zoutpansberg.. | Jan., 1934 | .15 | .35 | .17 | 2.21 | .04 | .37 | 7.5 | 38.3 | 5.40 | Grass, mainly green. Grass, leafy, and bush; mostly grass. Grass, brown, long, and bush; mostly grass. Grass, mainly brown, and bush. |
| | | April, 1934 | .13 | .44 | .23 | 1.91 | .10 | .43 | 4.9 | 36.2 | 4.49 | |
| | | Oct., 1934 | .12 | .62 | .19 | — | .06 | .36 | 3.8 | 31.4 | 3.45 | |
| | | April, 1935 | .11 | 1.45 | .19 | .96 | .06 | .44 | 9.2 | 31.0 | 5.34 | |
| Joan No. 1142, (Messina) | Zoutpansberg.. | Nov., 1933 | .13 | .37 | .14 | .95 | .18 | .39 | 7.9 | 38.0 | 3.11 | Grass, brown, and bush; mostly grass. |
| | | Feb., 1934 | .068 | .33 | .23 | .96 | .26 | .38 | 6.4 | 35.7 | 2.88 | Grass, mainly brown. |
| | | May, 1934 | .061 | .42 | .13 | .69 | .01 | .20 | 5.2 | 35.1 | 2.12 | Grass, mainly brown. |
| Ziska No. 1209 (Messina) | Zoutpansberg.. | Dec., 1933 | .12 | .81 | .13 | 1.55 | .02 | .26 | 7.5 | 38.7 | 4.46 | Grass and bush; mostly grass. Grass and bush. Grass, mainly brown, and bush; mostly bush. |
| | | Mar., 1934 | .17 | 1.00 | .30 | 1.71 | .10 | .51 | 6.9 | 39.4 | 6.15 | |
| | | June, 1934 | .19 | .91 | .34 | 1.02 | .28 | .51 | 9.5 | 29.1 | 5.66 | |
| Hogeveld No. 1289 (Messina) | Zoutpansberg.. | Jan., 1934 | .23 | .74 | .42 | 2.58 | .18 | .77 | 11.0 | 34.8 | 7.38 | Grass, mainly green, and bush; mostly grass. |
| | | April, 1934 | .099 | 1.82 | .32 | 1.18 | .08 | .24 | 9.2 | 31.7 | 6.46 | Grass and bush; mostly bush. |

AREA II.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|-----------------------|---------------------|-------------|------|-----|-----|------|-------|------|----------------|---------------|--------------|---|---------------|
| Hollandsdrift No. 113 | Pietersburg | Jan., 1934 | .17 | .36 | .21 | 1.89 | .12 | .35 | 9.0 | 31.6 | 4.65 | Grass, mainly green. | |
| | | April, 1934 | .11 | .31 | .12 | .64 | .02 | .12 | 3.9 | 34.4 | 1.84 | Grass, mainly brown, leafy. | |
| | | July, 1934 | .046 | .25 | .11 | .20 | trace | .02 | .27 | 2.5 | 36.0 | 1.27 | Grass, brown. |
| | | Mar., 1935 | .16 | .29 | .17 | 1.47 | trace | .27 | .94 | 32.3 | 2.99 | Grass, green, leafy. | |
| | | Sept., 1935 | .098 | .30 | .12 | .66 | .11 | .38 | 3.0 | 37.2 | 2.16 | Grass, brown, leafy. | |
| Bultfontein No. 1637 | Pietersburg | Nov., 1933 | .10 | .36 | .15 | 1.22 | .08 | .16 | 6.3 | 39.5 | 3.02 | Grass. | |
| | | Feb., 1934 | .096 | .24 | .11 | 1.17 | .02 | .21 | 5.4 | 38.4 | 2.75 | Grass, mainly green. | |
| | | May, 1934 | .092 | .52 | .19 | 1.29 | .03 | .22 | 4.9 | 38.5 | 3.93 | Grass, mainly brown, and bush ; mostly grass. | |
| | | Aug., 1934 | .045 | .20 | .08 | .64 | trace | .05 | 2.3 | 42.2 | 1.49 | Grass, brown, long. | |
| | | April, 1935 | .097 | .22 | .10 | 1.07 | trace | .65 | 5.7 | 35.5 | 2.13 | Grass, mainly brown, long | |
| Chloe | Pietersburg | July, 1935 | .052 | .25 | .10 | .59 | .03 | .12 | 2.7 | 42.8 | 2.93 | Grass, brown. | |
| | | Dec., 1933 | .17 | .21 | .16 | 2.01 | .08 | .60 | — | 42.5 | 4.21 | Grass, long. | |
| | | June, 1934 | .14 | .35 | .20 | .82 | .13 | .58 | 4.7 | 40.5 | 2.82 | Grass, brown, long. | |
| | | Sept., 1934 | .028 | .19 | .05 | .13 | .04 | .05 | 3.2 | 38.2 | 2.62 | Grass, brown, long. | |
| | | Mar., 1935 | .08 | .23 | .11 | 1.14 | .03 | .19 | 6.3 | 36.9 | 2.34 | Grass, mainly green, long. | |
| Mountain View | Pietersburg | June, 1935 | .087 | .21 | .10 | .98 | .02 | .22 | 4.6 | 34.8 | 2.16 | Grass, mainly brown. | |
| | | Oct., 1935 | .038 | .19 | .06 | .22 | .04 | .02 | 3.2 | 41.4 | 1.25 | Grass, brown, long. | |
| | | Jan., 1934 | .29 | .57 | .25 | 3.60 | .13 | .58 | 14.6 | 29.3 | 7.92 | Grass, green, leafy. | |
| | | July, 1934 | .16 | .46 | .22 | 1.78 | .10 | .55 | 7.4 | 33.6 | 4.37 | Grass, mainly brown, leafy. | |
| | | Oct., 1934 | .056 | .26 | .13 | .49 | .05 | .17 | 3.5 | 35.6 | 1.78 | Grass, brown, long. | |
| Kalkfontein No. 123 | Pietersburg | May, 1935 | .15 | .48 | .29 | 2.11 | .27 | .80 | 7.0 | 34.1 | 5.07 | Grass. | |
| | | Aug., 1935 | .067 | .27 | .16 | .47 | .03 | .20 | 3.1 | 38.1 | 2.46 | Grass, brown. | |
| | | Nov., 1933 | .15 | .29 | .16 | 1.45 | .46 | .52 | 8.7 | 31.3 | 4.06 | Grass. | |
| | | Feb., 1934 | .14 | .34 | .18 | 1.76 | .34 | .98 | 6.7 | 33.7 | 4.89 | Grass, mainly green. | |
| | | May, 1934 | .11 | .36 | .20 | .87 | .28 | .63 | 4.4 | 33.9 | 3.32 | Grass. | |
| Panplaats No. 1959 | Pietersburg | Aug., 1934 | .057 | .39 | .16 | .64 | .06 | .16 | 3.3 | 35.3 | 2.28 | Grass, brown. | |
| | | Oct., 1934 | .054 | .28 | .13 | .29 | .08 | .12 | 2.7 | 36.8 | 1.82 | Grass, brown. | |
| | | Dec., 1934 | .17 | .34 | .14 | 2.25 | .39 | .93 | 8.8 | 32.5 | 5.55 | Grass, mainly green, leafy. | |
| | | Mar., 1935 | .21 | .34 | .19 | 1.82 | .30 | .63 | 7.3 | 32.8 | 4.50 | Grass, green, leafy. | |
| | | June, 1935 | .10 | .41 | .16 | .51 | .17 | .31 | 3.4 | 35.7 | 3.38 | Grass, brown, short. | |
| Panplaats No. 1959 | Pietersburg | Dec., 1933 | .20 | .82 | .42 | 3.75 | .20 | .78 | 14.0 | 32.3 | 8.38 | Grass, green, and bush. | |
| | | Mar., 1934 | .13 | .57 | .22 | 1.46 | .07 | .37 | 9.0 | 40.3 | 4.16 | Grass and bush ; mostly grass. | |
| | | June, 1934 | .049 | .30 | .09 | .75 | .09 | .29 | 4.4 | 35.4 | 2.25 | Grass, brown. | |
| | | Sept., 1934 | .025 | .17 | .07 | .31 | .03 | .08 | 3.9 | 38.1 | 2.43 | Grass, brown. | |
| | | April, 1935 | .11 | .17 | .12 | 1.11 | .05 | .16 | 7.2 | 36.0 | 2.27 | Grass, green, long. | |
| July, 1935 | .068 | .30 | .18 | .83 | .05 | .27 | 5.6 | 36.9 | 5.32 | Grass, brown. | | | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 11 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|---------------------|-----------------|-------------|------|------|-----|------|------|------|----------------|---------------------------------------|--------------|--|
| Potsdam..... | Pietersburg.... | Jan., 1934 | .23 | .69 | .32 | 3.60 | .19 | .81 | 13.6 | 27.2 | 7.92 | Grass, green. |
| | | April, 1934 | .13 | .31 | .19 | 1.94 | .14 | .62 | 7.5 | 37.1 | 4.44 | Grass, mainly green. |
| | | July, 1934 | .047 | .26 | .15 | 1.43 | .04 | .53 | 4.5 | 42.1 | 2.97 | Grass, brown. |
| | | Nov., 1934 | .067 | .33 | .14 | .67 | .13 | .33 | 4.3 | 38.1 | 2.59 | Grass, brown, leafy. |
| | | Feb., 1935 | .15 | .40 | .27 | 2.40 | .04 | .81 | 11.4 | 35.5 | 5.68 | Grass, green. |
| May, 1935 | .17 | .27 | .13 | .90 | .12 | .26 | 5.5 | 33.5 | 2.54 | Grass, mainly green. | | |
| Kleinfontein..... | Pietersburg.... | Nov., 1933 | .16 | .32 | .17 | 2.85 | .38 | .68 | 10.0 | 37.0 | 5.37 | Grass, green. |
| | | Feb., 1934 | .12 | .38 | .26 | 1.74 | .56 | .96 | 8.1 | 35.8 | 4.91 | Grass, mainly green. |
| | | Sept., 1934 | .11 | .25 | .08 | .49 | .03 | .20 | 3.8 | 40.1 | 1.56 | Grass, brown. |
| | | Mar., 1935 | .13 | .31 | .17 | 1.35 | .05 | .51 | 5.9 | 38.2 | 2.92 | Grass, green, long. |
| Voorspoed No. 57 | Pietersburg.... | Mar., 1934 | .13 | .33 | .12 | 1.09 | .04 | .31 | 5.8 | 37.9 | 2.67 | Grass, mainly green. |
| Vygeboomskep... | Pietersburg.... | Aug., 1934 | .062 | .28 | .17 | .20 | .18 | .18 | 3.4 | 39.4 | 1.49 | Grass, brown, leafy. |
| | | Nov., 1934 | .062 | .24 | .08 | .33 | .02 | .13 | 4.7 | 40.9 | 1.38 | Grass, brown, long. |
| | | April, 1935 | .13 | .33 | .19 | 1.47 | .24 | .71 | 6.5 | 36.9 | 3.59 | Grass, green, long. |
| | | June, 1935 | .07 | .33 | .12 | .30 | .02 | .10 | 3.1 | 41.6 | 1.66 | Grass, brown. |
| | | Nov., 1933 | .16 | .50 | .24 | 1.79 | .05 | .43 | 12.5 | 32.0 | 4.51 | Grass, mainly green, and bush. |
| Feb., 1934 | .088 | .87 | .27 | 1.14 | .03 | .40 | 7.3 | 32.8 | 4.54 | Grass, green, and bush; mostly grass. | | |
| Blaauwkrans No. 598 | Pietersburg.... | May, 1934 | .041 | .65 | .23 | .61 | .01 | .14 | 4.4 | 34.3 | 2.65 | Grass, mainly brown, leafy. |
| | | Oct., 1934 | .26 | .43 | .37 | 2.59 | .12 | .39 | 16.6 | 21.2 | 7.70 | Grass, green, short and bush. |
| | | Mar., 1935 | .11 | .63 | .15 | 1.17 | .03 | .23 | 8.3 | 33.1 | 3.35 | Grass, mainly green, leafy, and bush. |
| | | Sept., 1935 | .098 | .65 | .27 | 1.12 | .05 | .23 | 9.5 | 25.0 | 3.91 | Grass, brown, and bush; mostly bush. |
| | | Dec., 1933 | .16 | .63 | .32 | 2.06 | .06 | .39 | 11.7 | 31.7 | 5.24 | Grass, green. |
| De Beers..... | Pietersburg.... | Mar., 1934 | .092 | .86 | — | 1.39 | .02 | .27 | 7.6 | 27.6 | 4.50 | Grass, mainly green, and bush. |
| | | June, 1934 | .067 | 1.38 | .25 | .80 | .02 | .19 | 7.7 | 29.7 | 5.31 | Grass, brown, leafy, and bush. |
| | | Sept., 1934 | .061 | .86 | .22 | .69 | .12 | .21 | 6.5 | 37.2 | 3.46 | Grass, brown, and bush; mostly grass. |
| | | Dec., 1934 | .099 | .99 | .28 | 2.00 | .03 | .50 | 11.0 | 32.8 | 5.48 | Grass, green, short, and bush; mostly grass. |
| | | July, 1935 | .066 | .84 | .21 | 1.01 | .05 | .09 | 6.5 | 32.1 | 3.91 | Grass, brown, leafy, and bush. |
| Inkoms..... | Pietersburg.... | Jan., 1934 | .17 | .42 | .18 | 1.83 | .06 | .33 | 8.6 | 34.2 | 4.11 | Grass, mainly green. |
| | | April, 1934 | .11 | 1.30 | .54 | 2.11 | .12 | .81 | 9.8 | 25.5 | 8.10 | Grass, mainly green, and bush; mostly grass. |
| | | Aug., 1934 | .075 | 2.04 | .60 | .94 | .03 | .09 | 7.7 | 36.6 | 7.30 | Bush. |
| | | Nov., 1934 | .38 | .64 | .36 | 4.24 | .25 | .66 | 18.8 | 24.0 | 9.06 | Grass, green, short. |
| | | Feb., 1935 | .20 | — | — | — | .68 | .50 | 15.4 | 29.3 | 6.96 | Grass, green, leafy, and bush. |
| May, 1935 | .13 | .89 | .40 | 1.65 | .18 | .32 | 9.5 | 31.3 | 5.40 | Grass. | | |
| Aug., 1935 | .15 | .62 | .25 | 1.31 | .05 | .10 | 12.1 | 30.2 | 4.05 | Grass, brown, and bush. | | |

AREA II (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|-----------------------|---------------------|-------------|------|------|-----|------|-------|-----|----------------|--------------|--------------|---------------------------------------|----------------------|
| Modderfontein No. 221 | Pietersburg | Nov., 1933 | .095 | .20 | .13 | .88 | .47 | .37 | 8.8 | 36.0 | 3.08 | Grass. | |
| | | Feb., 1934 | .13 | .28 | .14 | 1.16 | .31 | .45 | 7.3 | 35.5 | 3.17 | Grass, mainly green. | |
| | | May, 1934 | .17 | .35 | .12 | .65 | 5.0 | .15 | .05 | 3.7 | 35.6 | 2.47 | Grass, mainly brown. |
| | | Aug., 1934 | .063 | .28 | .10 | .25 | .03 | .04 | .03 | 3.7 | 36.7 | 1.32 | Grass, brown. |
| Droogeloop No. 848 | Pietersburg | Dec., 1933 | .31 | .26 | .23 | 2.65 | .32 | .69 | 13.7 | 33.2 | 5.72 | Grass, green. | |
| | | Mar., 1934 | .099 | .37 | .15 | .75 | .14 | .38 | 7.2 | 34.8 | 3.37 | Grass. | |
| | | June, 1934 | .13 | .35 | .09 | .30 | .06 | .07 | .34 | 3.4 | 35.7 | 1.80 | Grass, brown. |
| Geluk | Pietersburg | Jan., 1934 | .11 | .26 | .14 | 1.73 | .18 | .35 | 6.8 | 39.6 | 3.34 | Grass, mainly green. | |
| | | April, 1934 | .093 | .28 | .10 | 1.21 | .33 | .25 | .55 | 5.5 | 33.6 | 2.44 | Grass, mainly green. |
| | | July, 1934 | .039 | .32 | .12 | .45 | .04 | .12 | 3.0 | 3.0 | 34.3 | 1.46 | Grass, brown, leafy. |
| Danzig No. 1074. | Pietersburg | Nov., 1933 | .15 | .50 | .22 | 1.84 | .20 | .47 | 14.0 | 26.7 | 4.93 | Grass, green, short. | |
| | | Mar., 1934 | .097 | .36 | .23 | 1.51 | .13 | .47 | 6.4 | 33.5 | 3.46 | Grass, mainly green, long. | |
| | | Aug., 1934 | .042 | .47 | .19 | — | .01 | .06 | 3.8 | 3.8 | 35.4 | 2.76 | Grass, brown. |
| Westheim No. 983 | Pietersburg | Nov., 1934 | .11 | 2.06 | .32 | .68 | .06 | .09 | 9.4 | 26.1 | 7.16 | Bush. | |
| | | Jan., 1935 | .12 | .49 | .29 | 2.38 | .04 | .46 | 10.4 | 29.7 | 4.94 | Grass, mainly green, short, and bush. | |
| | | Feb., 1935 | .16 | .38 | .28 | 3.40 | .33 | .93 | 13.6 | 13.6 | 32.2 | 6.60 | Grass, green, leafy. |
| Krantzkop | Pietersburg | May, 1935 | .08 | .45 | .12 | .84 | .02 | .15 | 6.4 | 36.6 | 2.76 | Grass, mainly brown. | |
| | | Dec., 1933 | .23 | .35 | .31 | 4.15 | .15 | .50 | 14.4 | 28.8 | 8.08 | Grass, green, leafy. | |
| | | Sept., 1934 | .035 | .24 | .06 | .27 | trace | .03 | .44 | 4.0 | 36.8 | 1.37 | Grass, brown. |
| Welgevonden No. 1510 | Pietersburg | Dec., 1934 | .17 | .73 | .27 | 2.70 | .07 | .54 | 12.5 | 28.3 | 6.74 | Grass, green, leafy, and bush. | |
| | | Mar., 1935 | .16 | .43 | .25 | 2.15 | .03 | .59 | 11.4 | 35.6 | 4.52 | Grass, green, leafy. | |
| | | June, 1935 | .091 | .44 | .15 | .94 | .01 | .23 | 5.4 | 36.9 | 2.70 | Grass, brown. | |
| Goedehoop No. 785 | Pietersburg | Sept., 1935 | .055 | 1.73 | .32 | .52 | .04 | .20 | 6.7 | 31.6 | 5.96 | Bush. | |
| | | Jan., 1934 | .17 | .31 | .20 | 2.35 | .46 | .30 | 10.6 | 36.7 | 4.92 | Grass, mainly green. | |
| | | July, 1934 | .047 | .66 | .20 | .92 | .02 | .16 | 9.4 | 38.6 | 3.22 | Grass, brown, and bush. | |
| Goedehoop No. 785 | Pietersburg | Oct., 1934 | .05 | .68 | .12 | .11 | .01 | .01 | 4.4 | 38.5 | 2.64 | Grass, brown, and bush; mostly grass. | |
| | | April, 1935 | .097 | .49 | .23 | 2.18 | .06 | .64 | 7.4 | 34.2 | 4.82 | Grass. | |
| | | July, 1935 | .13 | .93 | .26 | 1.36 | .08 | .30 | 10.6 | 27.6 | 6.18 | Grass, brown, and bush; mostly bush. | |
| Welgevonden No. 1510 | Pietersburg | Jan., 1934 | .16 | .24 | .20 | 1.54 | .46 | .45 | 9.1 | 35.3 | — | Grass, mainly green. | |
| | | April, 1934 | .12 | .26 | .18 | .70 | .11 | .24 | 5.4 | 40.3 | 1.97 | Grass. | |
| | | July, 1934 | .082 | .28 | .14 | .38 | .10 | .23 | 3.1 | 37.5 | 1.74 | Grass, mainly brown. | |
| | | Oct., 1934 | .065 | .26 | .09 | .29 | .03 | .11 | 3.9 | 38.5 | 1.35 | Grass, mainly brown. | |
| Goedehoop No. 785 | Pietersburg | Feb., 1934 | .16 | .26 | .20 | 1.66 | .50 | .53 | 8.3 | 39.3 | 4.20 | Grass, mainly green. | |
| | | May, 1934 | .071 | .52 | .13 | .64 | .06 | .22 | 3.5 | 36.9 | 1.86 | Grass, mainly green. | |
| | | Aug., 1934 | .06 | .27 | .11 | .23 | .01 | .07 | 2.7 | 40.4 | 1.27 | Grass, brown, long. | |
| | | Nov., 1934 | .093 | .35 | .14 | .83 | .15 | .28 | 8.0 | 35.8 | 2.60 | Grass, mainly green, long. | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 11 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|----------------------------|-----------------------|-------------|------|------|-----|------|-------|------|----------------|-----------------------------|--------------|-----------------------------|
| Doornhoek 1677 | Pietersburg | Mar., 1934 | .079 | .24 | .12 | 1.49 | .32 | .62 | 4.9 | 37.6 | 3.45 | Grass, mainly green. |
| | | June, 1934 | .093 | .28 | .09 | .52 | .04 | .17 | 3.6 | 36.2 | 1.76 | Grass, mainly brown. |
| | | Sept., 1934 | .13 | .25 | .10 | .23 | .03 | .04 | 1.9 | 43.4 | 1.54 | Grass, brown, long. |
| Doornboom 1579 | Pietersburg | May, 1934 | .19 | .34 | .14 | 1.33 | .06 | .29 | 6.9 | 32.7 | 3.29 | Grass, leafy. |
| | | Aug., 1934 | .093 | .34 | .11 | .51 | .01 | .08 | 3.5 | 39.0 | 1.89 | Grass, mainly brown, leafy. |
| | | Nov., 1934 | .18 | .24 | .15 | 2.36 | .06 | .49 | 14.8 | 32.4 | 4.26 | Grass, green, leafy. |
| Brooklands | Pietersburg | Nov., 1933 | .17 | .37 | .14 | 2.30 | .05 | .40 | 10.2 | 32.0 | 5.04 | Grass. |
| | | Feb., 1934 | .096 | .24 | .11 | 1.11 | .01 | .23 | 6.0 | 37.0 | 2.73 | Grass, mainly green. |
| | | May, 1934 | .064 | .30 | .12 | .56 | trace | .11 | 2.6 | 37.3 | — | Grass, mainly brown, leafy. |
| | | Aug., 1934 | .029 | .30 | .08 | .17 | trace | .03 | 2.3 | 43.5 | 1.24 | Grass, brown. |
| | | Dec., 1934 | .14 | .20 | .22 | 1.52 | trace | .34 | 7.0 | 34.9 | 3.04 | Grass, green, long. |
| April, 1935 | .11 | .35 | .17 | 1.19 | .03 | .28 | 6.1 | 33.9 | 2.71 | Grass, mainly green, leafy. | | |
| Roodepoort No. 88 | Pietersburg | Dec., 1933 | .15 | .30 | .24 | 2.16 | .05 | .34 | 10.8 | 31.8 | 4.42 | Grass, mainly green. |
| | | Mar., 1934 | .22 | .31 | .20 | .86 | .04 | .15 | 4.6 | 35.8 | 2.67 | Grass, mainly green. |
| | | June, 1934 | .05 | .19 | .11 | .29 | .01 | .07 | 3.4 | 35.4 | 1.28 | Grass, mainly brown. |
| | | Sept., 1934 | .067 | .26 | .23 | .39 | .02 | .09 | 4.4 | 34.3 | 1.82 | Grass, mainly brown. |
| | | Feb., 1935 | .16 | .35 | .23 | .94 | .10 | .44 | 9.6 | 31.9 | 4.20 | Grass, mainly green, leafy. |
| | | May, 1935 | .085 | .30 | .14 | 1.07 | .04 | .22 | 4.9 | 33.2 | 2.60 | Grass, mainly brown. |
| | | Aug., 1935 | .072 | .34 | .13 | .54 | .01 | .29 | 3.2 | 36.9 | 1.94 | Grass, brown, leafy. |
| | | Aug., 1935 | .091 | .30 | .17 | 1.88 | .03 | .47 | 6.3 | 35.9 | 4.14 | Grass, mainly green, short. |
| Sandfontein, P.O. Boons | Rustenburg | June, 1934 | .043 | .35 | .10 | .29 | trace | .06 | 3.2 | 35.1 | 1.77 | Grass, brown, leafy. |
| | | Sept., 1934 | — | .30 | .12 | .21 | trace | — | 3.0 | 35.3 | 1.72 | Grass, brown, leafy. |
| | | Mar., 1935 | .11 | .27 | .12 | 1.68 | trace | .45 | 6.0 | 38.7 | 2.72 | Grass, mainly green. |
| | | Sept., 1935 | .044 | .23 | .10 | .25 | .06 | .17 | 4.1 | 36.2 | 1.78 | Grass, brown, short. |
| Diepkloof | Zwarttruggens | Jan., 1934 | .070 | .22 | .20 | .81 | .02 | .20 | 5.1 | 39.9 | 2.47 | Grass, mainly brown, short. |
| | | April, 1934 | .077 | .25 | .20 | 1.01 | .02 | .24 | 8.0 | 27.3 | 2.74 | Grass, mainly green, short. |
| | | July, 1934 | .083 | .25 | .12 | .70 | .02 | .15 | 3.2 | 31.7 | 2.00 | Grass, mainly brown. |
| | | Oct., 1934 | .093 | .14 | .08 | .62 | trace | — | 6.7 | 27.7 | 2.31 | Grass, mainly green, short. |
| | | April, 1935 | .082 | .25 | .16 | .69 | .07 | .42 | 6.3 | 31.5 | 2.99 | Grass, short. |
| | | July, 1935 | .066 | .24 | .12 | .36 | .01 | .13 | 5.5 | 37.0 | 1.82 | Grass, brown, short. |
| Wagenboomkop | Zwarttruggens | Jan., 1934 | .14 | .26 | .26 | 1.34 | .03 | .30 | — | 32.1 | 3.66 | Grass, short. |
| | | April, 1934 | .11 | .20 | .19 | 1.09 | .02 | .36 | 7.6 | 28.0 | 2.99 | Grass, mainly green, short. |
| | | July, 1934 | .04 | .20 | .14 | .30 | trace | .05 | 5.1 | 36.1 | 1.32 | Grass, mainly brown. |
| | | Oct., 1934 | .05 | .27 | .13 | .39 | .02 | .09 | 4.4 | 35.2 | 1.67 | Grass, mainly green, short. |
| | | April, 1935 | .08 | .30 | .25 | .51 | .08 | .21 | 5.9 | 34.8 | 2.49 | Grass. |
| July, 1935 | .07 | .29 | .19 | .95 | .05 | .15 | 4.4 | 37.3 | 2.67 | Grass, brown. | | |

AREA II (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|----------------------------------|-----------------|-------------|------|-----|-----|------|-------|------|----------------|--------------|--------------|---|--|
| Kwaggashoek, P.O. Mabaalstad | Rustenburg.... | Jan., 1934 | .14 | .26 | .20 | 1.95 | .03 | .36 | 10.4 | 34.6 | 3.98 | Grass, short. | |
| | | April, 1934 | .057 | .22 | .15 | .75 | .01 | — | 6.8 | 39.8 | 2.21 | Grass, mainly green, short. | |
| | | July, 1934 | .065 | .32 | .16 | .35 | trace | .06 | .6 | 3.8 | 35.5 | 1.75 | Grass, mainly brown. |
| | | Oct., 1934 | .22 | .44 | .26 | .73 | .08 | — | .6 | 6.2 | — | 2.35 | Grass, green, short, and bush; mostly grass. |
| Driefontein No. 90 | Marico..... | April, 1935 | .079 | .26 | .15 | .71 | trace | .30 | 6.3 | 33.1 | 2.85 | Grass, short. | |
| | | July, 1935 | .063 | .24 | .12 | .41 | .01 | .12 | 4.5 | 40.5 | 1.76 | Grass, brown, short. | |
| Kleinfontein No. 76 | Marico..... | April, 1935 | .064 | .28 | .18 | .89 | .07 | .15 | 5.4 | 30.9 | 2.46 | Grass, green, long. | |
| | | July, 1935 | .093 | .37 | .15 | .73 | .04 | .17 | 4.5 | 40.0 | 2.27 | Grass, brown, leafy. | |
| | | Nov., 1935 | .056 | .25 | .11 | .86 | trace | .17 | 6.1 | 32.9 | 2.18 | Grass, mainly green. | |
| Klaarsboom No. 67, P.O. Vaalkop | Marico..... | May, 1935 | .10 | .28 | .19 | 1.02 | .04 | .24 | 4.2 | 32.1 | 2.75 | Grass. | |
| | | Aug., 1935 | .086 | .35 | .19 | 1.03 | trace | .14 | 2.9 | 39.3 | 2.71 | Grass, brown, leafy. | |
| Klippan No. 194, P.O. Slurry | Marico..... | June, 1935 | .10 | .32 | .16 | .85 | trace | .10 | 4.1 | 40.2 | 2.31 | Grass, brown, leafy. | |
| | | Oct., 1935 | .045 | .24 | .12 | .24 | .01 | .04 | 3.9 | 37.5 | 1.45 | Grass, brown. | |
| | | April, 1935 | .063 | .46 | .14 | .91 | .02 | .17 | .5 | 5.1 | 35.3 | 3.61 | Grass, mainly green, long. |
| | | July, 1935 | .068 | .55 | .25 | .99 | .02 | .19 | 6.1 | 36.0 | 3.08 | 3.08 | Grass, brown, leafy. |
| Tweefontein No. 64, P.O. Zeerust | Marico..... | Oct., 1935 | .059 | .49 | .10 | .44 | trace | .05 | 4.1 | 36.4 | 2.22 | Grass, brown, leafy. | |
| | | Mar., 1936 | .09 | .34 | .25 | 1.42 | trace | — | 5.4 | 39.9 | 3.48 | Grass, green, leafy. | |
| Gougekregen..... | Marico..... | May, 1935 | .072 | .47 | .20 | .52 | trace | .11 | 3.9 | 35.6 | 2.05 | Grass, mainly brown, leafy. | |
| | | Aug., 1935 | .070 | .58 | .26 | .28 | .01 | .17 | 3.4 | 38.7 | 2.47 | Grass, brown, leafy. | |
| | | Nov., 1935 | .076 | .35 | .25 | 1.29 | trace | .22 | 7.6 | 33.6 | 2.94 | Grass, mainly green, leafy. | |
| Middelbult, P.O. Girdan | Lichtenburg.... | June, 1935 | .070 | .30 | .15 | .55 | trace | .15 | 3.2 | 36.5 | 1.75 | Grass, brown. | |
| | | Sept., 1935 | .056 | .47 | .21 | .47 | trace | .16 | 4.3 | 38.4 | 2.92 | Grass, brown, leafy. | |
| Withan..... | Lichtenburg.... | Feb., 1936 | .12 | .40 | .32 | 3.79 | trace | .37 | 11.9 | 33.5 | 7.74 | Grass, green. | |
| | | April, 1935 | .20 | .50 | .23 | 2.12 | .04 | .61 | 10.8 | 29.8 | 4.79 | Grass, mainly green, short. | |
| | | Aug., 1935 | .066 | .44 | .28 | .97 | .07 | .07 | 6.0 | 32.8 | 3.27 | Grass, brown, leafy. | |
| Makoespan, P.O. Bakers | Lichtenburg.... | Feb., 1936 | .17 | .27 | .13 | 2.04 | trace | .47 | 11.5 | 35.1 | 4.31 | Grass, mainly green, and bush mostly grass. | |
| | | May, 1935 | .15 | .58 | .16 | 1.13 | .07 | .23 | 5.1 | 31.9 | 3.12 | Grass, mainly brown, leafy. | |
| Makoespan, P.O. Bakers | Lichtenburg.... | Jan., 1936 | .18 | .59 | .12 | 1.66 | trace | .47 | 5.8 | 28.9 | 4.27 | Grass, mainly green, leafy. | |
| | | June, 1935 | .053 | .30 | .10 | .45 | trace | .078 | 3.3 | 36.0 | 1.60 | Grass, brown, leafy. | |
| | | Sept., 1935 | .053 | .27 | .11 | .48 | trace | .13 | 5.7 | 34.0 | 1.90 | Grass, brown. | |
| Makoespan, P.O. Bakers | Lichtenburg.... | Mar., 1936 | .18 | .34 | .16 | 1.65 | trace | .29 | 11.0 | 35.3 | 3.57 | Grass, green, leafy. | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 11 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|--------------------------------------|----------------|----------------------------|----------------|------|-----|------|-------|------|----------------|----------------------|--------------|---|
| Zandfontein No. 589, P.O. Wevetdene | Rustenburg.... | Nov., 1933 | .18 | .49 | .26 | 2.79 | .08 | .50 | 11.7 | 25.6 | 5.92 | Grass and bush; mostly grass. |
| | | Feb., 1934 | .074 | .22 | .15 | 1.62 | .02 | .35 | 7.9 | 36.9 | 3.38 | Grass, mainly green. |
| | | May, 1934 | .049 | .29 | .14 | 1.00 | .03 | .13 | 3.8 | 40.6 | 2.38 | Grass. |
| | | Aug., 1934 | .065 | .34 | — | .72 | trace | .16 | 4.6 | 37.3 | 2.15 | Grass, mainly brown, short. |
| | | Nov., 1934 | .097 | .30 | .16 | 1.88 | .13 | .57 | 9.9 | 30.8 | 4.03 | Grass, mainly green, leafy. |
| | | April, 1935 | .087 | .40 | .12 | .90 | .17 | .26 | 4.6 | 32.5 | 2.93 | Grass, leafy. |
| | | June, 1935 | .079 | .46 | .18 | 1.12 | trace | .28 | 5.0 | 34.0 | 3.08 | Grass, mainly brown, leafy. |
| | | Sept., 1935 | .051 | .30 | .14 | .49 | .03 | .17 | 4.1 | 33.5 | 2.07 | Grass, brown, short. |
| | | Dec., 1933 | .22 | .68 | .57 | 1.96 | .04 | .55 | 11.2 | 30.0 | 7.00 | Grass, short. |
| | | Leeuwkoppies, P.O. Northam | Rustenburg.... | | | | | | | | | |
| Kromdraai No. 692, P.O. Derby | Rustenburg.... | Jan., 1934 | .23 | .42 | .50 | 3.61 | trace | .61 | 13.8 | 34.0 | 8.06 | Grass, mainly green. |
| | | April, 1934 | .12 | .28 | .18 | 2.06 | .09 | .48 | 6.2 | 36.5 | 3.44 | Grass. |
| | | July, 1934 | .077 | .49 | .27 | 1.38 | .02 | .53 | 6.1 | 36.4 | 3.64 | Grass, brown, leafy. |
| | | Oct., 1934 | .068 | .33 | .25 | 1.16 | .09 | .45 | 6.0 | 36.2 | 3.03 | Grass, brown, leafy.. |
| | | Mar., 1935 | .28 | .36 | .34 | 2.20 | .38 | .82 | 7.2 | 39.3 | 5.10 | Grass, mainly green, long. |
| | | July, 1935 | .05 | .53 | .22 | 1.40 | .04 | .36 | 4.9 | 39.1 | 3.90 | Grass, mainly brown. |
| | | Mar., 1934 | .18 | .35 | .21 | 2.16 | .09 | .64 | 8.7 | 36.6 | 4.57 | Grass, mainly green. |
| June, 1934 | .17 | .47 | .22 | 1.18 | .16 | .32 | 6.8 | 37.4 | 3.57 | Grass, mainly brown. | | |
| Grootkuil, P.O. Northam | Rustenburg.... | Sept., 1934 | .09 | .91 | .40 | 1.66 | .04 | .04 | 5.0 | 36.8 | — | Grass, brown. |
| | | Feb., 1935 | .18 | .56 | .30 | 3.08 | .56 | 1.19 | 13.4 | 30.6 | 7.33 | Grass, mainly green, leafy. |
| | | May, 1935 | .12 | .40 | .21 | 1.43 | .13 | .42 | 6.7 | 29.6 | 3.94 | Grass, mainly brown, leafy. |
| | | Aug., 1935 | .22 | .35 | .15 | 1.35 | trace | .08 | 3.3 | 41.5 | 3.44 | Grass, brown, leafy. |
| | | Oct., 1935 | .08 | .24 | .08 | .50 | .02 | .06 | 5.2 | 37.6 | 2.40 | Grass, brown, leafy. |
| | | Nov., 1933 | .10 | .28 | .17 | .76 | .02 | .20 | 7.8 | 34.6 | 2.79 | Grass, mainly green. |
| Buffelspoort, No. 668, P.O. Marikana | Rustenburg.... | Feb., 1934 | .13 | .33 | .11 | 1.85 | .02 | .12 | 8.7 | 34.2 | 3.66 | Grass, mainly green, short. |
| | | May, 1934 | .05 | .51 | .18 | .79 | .02 | .10 | 4.4 | 32.3 | 3.13 | Grass, mainly brown, short, and bush; mostly grass. |
| | | Aug., 1934 | .056 | .22 | .13 | .63 | trace | .10 | 3.9 | 33.2 | 1.83 | Grass, mainly brown, short. |
| | | Nov., 1934 | .074 | .37 | .15 | 1.54 | trace | .36 | 6.8 | 34.4 | 3.61 | Grass, leafy. |
| | | Feb., 1935 | .077 | .29 | .11 | 1.06 | .03 | .26 | 5.8 | 32.2 | 3.46 | Grass, short. |
| | | May, 1935 | .062 | .36 | .20 | .59 | .02 | .15 | 5.6 | 26.6 | 3.06 | Grass, brown, short. |
| Kafferskraal No. 915, P.O. Marikana | Rustenburg.... | Aug., 1935 | .075 | .42 | .15 | .46 | .26 | .13 | 3.6 | 37.7 | 3.03 | Grass, brown, short. |
| | | Feb., 1934 | .11 | .30 | .32 | 2.07 | .03 | .40 | 7.4 | 37.1 | 4.28 | Grass, mainly green. |
| | | May, 1934 | .063 | .29 | .24 | .58 | .01 | .23 | 4.3 | 32.1 | 2.82 | Grass, mainly brown, short. |
| | | Aug., 1934 | .037 | .20 | .17 | .30 | trace | .05 | 3.4 | 39.0 | 1.54 | Grass, brown, leafy. |
| | | Nov., 1934 | .10 | .45 | .18 | 1.30 | .26 | .62 | 8.9 | 29.3 | 4.02 | Grass, mainly green, short. |
| | | Feb., 1935 | .12 | .30 | .31 | 1.64 | .03 | .32 | 8.8 | 33.5 | 3.94 | Grass, mainly green, short. |
| | | May, 1935 | .057 | .28 | .19 | .60 | .03 | .15 | 3.8 | 37.5 | 2.31 | Grass, short. |
| | | Aug., 1935 | .067 | .31 | .19 | .38 | .14 | .04 | 2.8 | 33.1 | 2.32 | Grass, mainly brown, short. |

AREA II (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|---------------------------------------|-----------------|-------------|------|-----|-------|------|-------|------|----------------|----------------------|--------------|-----------------------------|
| Spruitfontein No. 349, P.O. Mari-kana | Rustenburg.... | Feb., 1934 | .12 | .26 | .18 | 2.08 | .02 | .36 | 6.5 | 33.7 | 3.70 | Grass, mainly green, short. |
| | | May, 1934 | .069 | .33 | .13 | .75 | .01 | .15 | 4.2 | 35.1 | 2.42 | Grass, mainly brown, short. |
| | | Aug., 1934 | .050 | .48 | .13 | .67 | trace | .11 | 5.0 | 34.3 | 2.30 | Grass, mainly brown. |
| | | Nov., 1934 | .083 | .52 | .14 | .81 | .02 | .21 | 6.3 | 36.2 | 2.39 | Grass, short. |
| | | Feb., 1935 | .099 | .39 | .22 | 1.09 | .51 | .58 | 6.0 | 32.2 | 4.20 | — |
| | | May, 1935 | .087 | .27 | .13 | .76 | trace | — | 5.0 | 31.1 | 2.64 | Grass, mainly green, short. |
| | | Aug., 1935 | .058 | .44 | .17 | .57 | .02 | .08 | 3.9 | 35.8 | 2.39 | Grass, mainly brown, short. |
| | | Dec., 1933 | .07 | .24 | .12 | .86 | .05 | .19 | 7.2 | 36.3 | 2.40 | Grass, mainly brown, short. |
| Onverwacht No. 666, P.O. Hel-dinia | Magaliesberg... | Mar., 1934 | .11 | .40 | .30 | 1.33 | .04 | .24 | 10.9 | 29.4 | 3.09 | Grass, green, short. |
| | | June, 1934 | .079 | .32 | .18 | .56 | .02 | .15 | 4.0 | 36.0 | 2.36 | Grass. |
| | | Sept., 1934 | .086 | .25 | .16 | .41 | .02 | .19 | 5.6 | 29.9 | 1.88 | Grass, mainly brown, short. |
| | | Mar., 1935 | .092 | .32 | .10 | 1.03 | .04 | .28 | 6.6 | 36.5 | 2.85 | Grass, mainly green, short. |
| | | June, 1935 | .12 | .49 | .22 | .61 | .05 | .18 | 5.4 | 32.9 | 3.65 | Grass, mainly brown, short. |
| | | Dec., 1933 | .15 | .43 | .16 | 2.17 | .04 | .53 | 10.7 | 31.0 | 5.54 | Grass, short. |
| | | Mar., 1934 | .12 | .38 | .20 | 1.72 | .07 | .41 | 8.4 | 32.4 | 4.11 | Grass, mainly green, short. |
| | | June, 1934 | .058 | .40 | .18 | 1.12 | trace | .20 | 6.8 | 32.6 | 3.05 | Grass, short. |
| Cyferfontein, P.O. Cyferbult | Magaliesberg... | Sept., 1934 | .043 | .40 | .40 | .58 | .02 | .03 | 5.2 | 42.5 | 2.68 | Grass, brown. |
| | | Mar., 1935 | .093 | .32 | .11 | 1.01 | .02 | .31 | 5.6 | 32.3 | 3.09 | Grass, mainly green, short. |
| | | June, 1935 | .21 | .46 | .41 | 2.18 | trace | .67 | 10.8 | 30.8 | 5.45 | Grass, short. |
| | | Sept., 1935 | .059 | .45 | .17 | .36 | .15 | .24 | 4.5 | 33.8 | 2.84 | Grass, brown, short. |
| | | Nov., 1933 | .19 | .27 | .11 | 1.87 | .04 | .39 | 13.8 | 37.5 | 3.77 | Grass, green. |
| | | Feb., 1934 | .11 | .22 | .19 | 1.09 | .03 | .25 | 6.1 | 36.3 | 2.52 | Grass, mainly green. |
| | | May, 1934 | .078 | .27 | .11 | .82 | .02 | .21 | 3.7 | 36.4 | 1.54 | Grass, leafy. |
| | | Aug., 1934 | .029 | .24 | .07 | .14 | trace | .01 | 2.8 | 36.7 | 1.16 | Grass, brown, leafy. |
| Vlaaklaagte No. 71, P.O. Blackhill | Witbank..... | May, 1935 | .058 | .22 | .09 | .32 | trace | .07 | 3.2 | 32.8 | 1.42 | Grass, mainly brown, leafy. |
| | | July, 1935 | .051 | .24 | .09 | .28 | .01 | .06 | 2.9 | 35.6 | 1.64 | Grass, brown, short. |
| | | Oct., 1935 | .042 | .19 | .07 | .29 | .01 | .06 | 3.5 | 30.9 | 1.53 | Grass, brown, short. |
| | | Dec., 1933 | .11 | .25 | .11 | 1.49 | .03 | .26 | 8.2 | 41.0 | 3.14 | Grass, mainly green. |
| | | Mar., 1934 | .074 | .29 | .10 | 1.14 | .02 | .18 | 5.0 | 37.7 | 2.68 | Grass. |
| | | June, 1934 | .039 | .28 | .09 | .16 | .01 | .02 | 3.5 | 33.9 | 1.46 | Grass, mainly brown, leafy. |
| | | Sept., 1934 | .043 | .22 | .07 | .15 | .02 | .04 | 3.2 | 34.7 | 1.14 | Grass, brown, leafy. |
| | | Mar., 1935 | .088 | .25 | .07 | .61 | .07 | .13 | 6.3 | 32.3 | 2.11 | Grass, leafy. |
| Klipplaag, P.O. Coalville | Witbank..... | Aug., 1935 | .052 | .35 | .12 | .42 | trace | .09 | 3.5 | 33.1 | 2.43 | Grass, brown, short. |
| | | Jan., 1934 | .099 | .32 | .20 | 1.51 | .03 | .29 | 7.9 | 36.7 | 3.52 | Grass, mainly green. |
| | | April, 1934 | .088 | .34 | .11 | .62 | .02 | .13 | 5.1 | 30.0 | 2.18 | Grass, leafy. |
| | | July, 1934 | .047 | .29 | .07 | .14 | trace | .02 | 2.4 | 34.1 | 1.41 | Grass, brown, leafy. |
| | | Oct., 1934 | .07 | .22 | .06 | .26 | trace | .03 | 3.5 | 34.8 | 1.61 | Grass, brown, leafy. |
| | | Feb., 1935 | .11 | .39 | .11 | .76 | .03 | .18 | 5.6 | 33.3 | 2.49 | Grass, green, leafy. |
| | | April, 1935 | .071 | .34 | .10 | .45 | trace | .26 | 3.6 | 31.7 | 1.88 | Grass, mainly green, leafy. |
| | | June, 1935 | .067 | .33 | .09 | .32 | trace | .05 | 2.9 | 34.5 | 1.83 | Grass, brown, short. |
| Sept., 1935 | .059 | .21 | .06 | .18 | trace | .04 | 3.5 | 34.0 | 1.32 | Grass, brown, short. | | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 11 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|--|----------------|-------------|------|-----|-----|------|-------|-------|----------------|--------------|--------------|-----------------------------|
| Soetmelkfontein No. 322, P.O. Dennieton | Pretoria..... | Dec., 1933 | .23 | .25 | .16 | 2.66 | .08 | .70 | 12.6 | 32.9 | 5.33 | Grass, green. |
| | | April, 1934 | .087 | .32 | .12 | 1.23 | .02 | .29 | 6.5 | 36.7 | 2.52 | Grass, mainly green. |
| | | April, 1935 | .083 | .55 | .25 | 1.00 | .03 | .20 | 3.9 | 34.3 | 3.27 | Grass, mainly brown, short. |
| Rietfontein No. 89 P.O. Bronkhorst- spruit | Pretoria..... | Mar., 1934 | .08 | .22 | .15 | 1.37 | .01 | .15 | 4.2 | 36.6 | 2.58 | Grass, mainly green. |
| | | June, 1934 | .028 | .21 | .11 | .44 | trace | .06 | 2.4 | 38.3 | 1.41 | Grass, mainly brown. |
| | | Sept., 1934 | .051 | .23 | .11 | .40 | .02 | .04 | 4.3 | 32.8 | 1.43 | Grass, mainly brown. |
| Kaalfontein No. 402, P.O. Rayton | Pretoria..... | Feb., 1935 | .090 | .28 | .12 | 1.93 | .08 | .27 | 6.3 | 36.2 | 3.44 | Grass, green, leafy. |
| | | May, 1934 | .055 | .31 | .20 | .78 | .02 | .24 | 3.8 | 36.5 | 2.30 | Grass, mainly brown. |
| | | Sept., 1934 | .042 | .28 | .08 | .07 | trace | .01 | 2.7 | 37.7 | 1.18 | Grass, brown. |
| Garsfontein..... | Pretoria..... | Mar., 1935 | .075 | .30 | .12 | .77 | trace | .06 | 4.6 | 34.7 | 2.00 | Grass, mainly green, leafy. |
| | | Feb., 1934 | .10 | .22 | .18 | 1.66 | .03 | .37 | 6.5 | 37.0 | 3.24 | Grass, mainly green. |
| | | May, 1934 | .043 | .22 | .19 | .81 | .02 | .29 | 2.8 | 39.9 | 2.07 | Grass, mainly brown, long. |
| The Willows..... | Pretoria..... | Aug., 1934 | .049 | .21 | .17 | .15 | trace | .01 | 2.9 | 39.0 | 1.19 | Grass, brown. |
| | | Nov., 1934 | .16 | .28 | .14 | 1.40 | trace | .29 | 9.2 | 34.0 | 3.13 | Grass, green, long. |
| | | Mar., 1935 | .11 | .23 | .13 | 1.35 | trace | .21 | 3.5 | 40.3 | 2.46 | Grass, mainly green, long. |
| Rietfontein..... | Pretoria..... | Aug., 1935 | .039 | .25 | .10 | .30 | trace | .08 | 2.1 | 43.2 | 1.47 | Grass, brown, long. |
| | | Mar., 1934 | .11 | .35 | .49 | 1.52 | .03 | .31 | 10.0 | 34.8 | 4.10 | Grass, mainly green. |
| | | June, 1934 | .036 | .27 | .43 | .40 | .02 | .08 | 2.7 | 44.2 | 2.20 | Grass, mainly brown, long. |
| Kareefontein No. 838 | Waterberg..... | Sept., 1934 | .038 | .24 | .17 | .09 | .02 | trace | 3.5 | 39.8 | 1.32 | Grass, brown, long. |
| | | April, 1935 | .082 | .29 | .18 | .66 | .02 | .09 | 4.1 | 36.7 | 1.97 | Grass, mainly green, long. |
| | | June, 1935 | .053 | .15 | .19 | .55 | trace | .14 | 2.7 | 39.8 | 1.79 | Grass, brown, long. |
| Hartebeestpoort No. 701, P.O. Vaalwater | Waterberg..... | April, 1934 | .076 | .26 | .16 | .92 | .03 | .23 | 4.6 | 36.2 | 2.10 | Grass. |
| | | July, 1934 | .035 | .24 | .35 | .41 | trace | .10 | 2.1 | 40.4 | 1.96 | Grass, mainly brown, long. |
| | | Oct., 1934 | .055 | .19 | .21 | .64 | .02 | .08 | 3.7 | 34.8 | 2.13 | Grass, mainly brown, leafy. |
| Hartebeestpoort No. 701, P.O. Vaalwater | Waterberg..... | May, 1935 | .077 | .25 | .15 | .44 | trace | .12 | 3.8 | 37.7 | 1.66 | Grass, mainly brown, leafy. |
| | | July, 1935 | .052 | .22 | .14 | .27 | trace | .08 | 2.6 | 39.7 | 1.57 | Grass, brown, leafy. |
| | | Nov., 1933 | .23 | .26 | .22 | 3.39 | .08 | .52 | 15.6 | 30.7 | 6.68 | Grass, green. |
| Hartebeestpoort No. 701, P.O. Vaalwater | Waterberg..... | April, 1935 | .061 | .27 | .13 | .78 | .06 | .31 | 3.6 | 34.7 | 1.82 | Grass, mainly green. |
| | | July, 1935 | .055 | .27 | .13 | .43 | .02 | .12 | 3.3 | 34.5 | 1.61 | Grass, brown, leafy. |
| | | Dec., 1933 | .22 | .31 | .19 | 2.48 | .09 | .33 | 10.1 | 33.0 | 5.24 | Grass, green. |
| Hartebeestpoort No. 701, P.O. Vaalwater | Waterberg..... | May, 1935 | .05 | .23 | .13 | .48 | .03 | .09 | 3.8 | 33.1 | 1.68 | Grass, leafy. |
| | | Aug., 1935 | .038 | .21 | .13 | .40 | trace | .13 | 3.0 | 40.2 | 1.44 | Grass, brown, short. |
| | | Nov., 1935 | .14 | .28 | .32 | 2.51 | .05 | .61 | 15.1 | 30.7 | 5.08 | Grass, green, leafy. |

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|---|----------------|-------------|------|------|------|------|-------|------|----------------|---------------------------------------|--------------|---------------------------------------|
| Gemsbokfontein No. 883, P.O. Vaalwater | Waterberg..... | Mar., 1935 | .063 | .17 | .13 | .98 | .05 | .16 | 4.5 | 39.7 | 1.95 | Grass, mainly green, leafy. |
| | | June, 1935 | .085 | .24 | .16 | .42 | trace | .13 | 2.8 | 40.0 | 1.45 | Grass, brown, leafy. |
| | | Sept., 1935 | .050 | .27 | .13 | .38 | .03 | .13 | 3.7 | 40.3 | 2.80 | Grass, brown, short. |
| Oranjefontein, P.O. Monte Christo | Waterberg..... | April, 1935 | .10 | .84 | .33 | 2.36 | .03 | .33 | 9.4 | 34.8 | 6.07 | Grass, mainly green, and shrub. |
| | | July, 1935 | .068 | 1.16 | .64 | .93 | .01 | .03 | 15.4 | 30.5 | 5.68 | Bush. |
| | | Oct., 1935 | .053 | .91 | .58 | .79 | .02 | .02 | 8.7 | 33.6 | 4.47 | Grass, brown, and bush. |
| | | Jan., 1936 | .13 | .67 | .27 | 1.88 | trace | .17 | 14.7 | 32.4 | 5.24 | Grass, leafy, and bush; mostly grass. |
| Penton Villa No. 1223, P.O. Ons Hoop, via Vaalwater | Waterberg..... | May, 1935 | .07 | .31 | .23 | 1.13 | .08 | .21 | 7.0 | 34.6 | 2.89 | Grass and bush; mostly grass. |
| | | Aug., 1935 | .09 | 1.12 | .31 | 1.64 | trace | .36 | 10.0 | 33.1 | 5.40 | Grass, brown, and bush. |
| | | Nov., 1935 | .076 | 2.08 | 1.05 | .95 | .03 | .04 | 11.8 | 26.9 | 7.98 | Bush. |
| | | Feb., 1936 | .27 | .93 | .55 | 3.62 | .16 | .57 | 14.8 | 33.2 | 10.00 | Grass, green, and bush. |
| Dedam No. 444, P.O. Vaalwater | Waterberg..... | June, 1935 | .20 | .31 | .21 | 1.44 | trace | .25 | 16.3 | 28.4 | 5.60 | Grass, green, and bush; mostly bush. |
| | | Sept., 1935 | .087 | .97 | .38 | 1.15 | .04 | .17 | 9.3 | 35.5 | 6.03 | Grass, brown, and bush; mostly bush. |
| | | Dec., 1935 | .14 | 1.34 | .37 | 1.76 | .03 | .09 | 10.5 | 28.5 | 7.75 | Bush. |
| Scheerpoort No.60 | Brits..... | Mar., 1936 | .28 | .94 | .44 | 3.70 | .05 | .36 | 16.2 | 32.5 | 9.85 | Grass, green, and bush; mostly bush. |
| | | Dec., 1933 | .33 | .37 | .46 | 3.01 | .41 | .65 | 16.2 | 34.7 | 6.61 | Grass, green. |
| | | April, 1934 | .088 | .33 | .13 | 1.95 | .03 | .24 | 6.0 | 36.6 | 3.52 | Grass, mainly green. |
| | | July, 1934 | .070 | .34 | .13 | .72 | trace | .08 | 4.5 | 36.9 | 2.12 | Grass, brown. |
| Sandfontein No.54 | Brits..... | Oct., 1934 | .062 | .35 | .14 | .49 | .03 | .08 | 4.4 | 39.6 | 1.66 | Grass, brown. |
| | | April, 1935 | .099 | .29 | .17 | .83 | trace | .16 | 5.3 | 38.0 | 2.42 | Grass, mainly green. |
| | | Jan., 1934 | .15 | .31 | .18 | 1.47 | .02 | .12 | 9.2 | 41.5 | 2.98 | Grass, mainly green. |
| | | May, 1934 | .072 | .42 | .16 | 1.04 | .01 | .26 | 4.9 | 37.6 | 2.62 | Grass, mainly brown. |
| De Kroon No. 33 | Brits..... | Aug., 1934 | .025 | .30 | .18 | .19 | trace | .03 | 3.0 | 32.0 | 1.53 | Grass, brown. |
| | | Feb., 1935 | .074 | .25 | .13 | .70 | .05 | .11 | 5.6 | 36.4 | 1.98 | Grass, mainly green, leafy. |
| | | May, 1935 | .076 | .39 | .14 | 1.48 | trace | .24 | 4.7 | 34.7 | 3.01 | Grass. |
| | | Sept., 1935 | .044 | .26 | .15 | .39 | .02 | .11 | 3.6 | 38.2 | 1.91 | Grass, mainly brown. |
| | | Mar., 1934 | .11 | .35 | .15 | 1.29 | trace | .31 | 7.0 | 38.0 | 3.05 | Grass, mainly green. |
| | | June, 1934 | .053 | .47 | .11 | .38 | .02 | .11 | — | 36.2 | 2.41 | Grass, mainly brown. |
| Witklip No. 704, P.O. Massikier | Brits..... | Sept., 1934 | .043 | .61 | .08 | .28 | .02 | .04 | 3.8 | 36.2 | 1.86 | Grass, brown. |
| | | Mar., 1935 | .062 | .51 | .06 | .40 | trace | .09 | 4.0 | 34.9 | 2.21 | Grass, mainly brown, leafy. |
| | | June, 1935 | .057 | .62 | .12 | .45 | trace | .15 | 2.4 | 34.1 | 2.50 | Grass, brown, leafy. |
| | | Oct., 1935 | .056 | .86 | .17 | .34 | .02 | .05 | 4.6 | 36.6 | 3.47 | Grass, brown, leafy. |
| Nov., 1933 | .16 | .49 | .17 | 2.22 | .08 | .51 | 10.2 | 35.4 | 5.42 | Grass, short, and bush; mostly grass. | | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 12.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Pro-tein. | Crude Fibre. | Solu-ble Ash. | Description of Sample. | |
|----------------------------|---------------|-------------|------|------|-----|------|-------|-----|-----------------|--------------|---------------|---|--|
| Senegal, Maribogo | Mafeking..... | Feb., 1935 | .094 | .29 | .20 | 1.63 | trace | .35 | 6.7 | 39.6 | 3.30 | Grass, mainly green, long. | |
| | | May, 1935 | .054 | .37 | .10 | .77 | .02 | .08 | 6.0 | 35.6 | 2.16 | Grass and bush; mostly grass. | |
| | | Aug., 1935 | .068 | .30 | .13 | .40 | .01 | .18 | 5.1 | 39.4 | 1.60 | Grass, brown. | |
| | | Nov., 1935 | .058 | .38 | .10 | .51 | .07 | .03 | 7.0 | 35.8 | 2.20 | Grass. | |
| Kildare, via Mari- bogo | Mafeking..... | Mar., 1935 | .075 | .29 | .09 | .50 | trace | .07 | 5.2 | 38.1 | 1.66 | Grass. | |
| | | June, 1935 | .083 | .22 | .06 | .32 | trace | .03 | 3.8 | 43.2 | 1.13 | Grass, long. | |
| | | Sept., 1935 | .028 | .46 | .19 | .43 | .08 | .02 | 4.8 | 38.0 | 2.30 | Grass, brown, long, and bush; mostly grass. | |
| Burgundy, via Maribogo | Mafeking..... | April, 1935 | .084 | .73 | .25 | 1.16 | .09 | .12 | 9.5 | 31.7 | 3.87 | Grass, mainly green, and bush; | |
| | | July, 1935 | .038 | .16 | .07 | .23 | trace | .06 | 3.3 | 42.0 | 1.00 | Grass, brown, long. | |
| | | Oct., 1935 | .045 | .29 | .13 | .26 | trace | .01 | 5.4 | 38.1 | 1.51 | Grass. | |
| Kankatjies..... | Taungs..... | Nov., 1933 | .12 | 1.07 | .31 | 1.38 | .03 | .30 | 11.1 | 25.6 | 5.63 | Grass, brown, short and bush; mostly bush. | |
| | | Feb., 1934 | .19 | .60 | .32 | 2.20 | .07 | .41 | 10.2 | 31.6 | 6.78 | Grass, mainly green. | |
| | | May, 1934 | .076 | 1.09 | .38 | 1.31 | trace | .41 | 7.2 | 35.8 | 4.80 | Grass, mainly brown, short and bush; mostly grass. | |
| | | Aug., 1934 | .075 | .98 | .17 | .99 | .05 | .31 | 6.9 | 32.5 | 4.39 | Grass, mainly brown, leafy and bush; mostly grass. | |
| Bowood..... | Taungs..... | Feb., 1935 | .20 | 1.34 | .69 | 2.40 | .14 | .71 | 11.9 | 30.8 | 8.46 | Grass, green, leafy, and bush. | |
| | | May, 1935 | .17 | .96 | .47 | 2.01 | trace | .50 | 9.8 | 32.3 | 6.08 | Grass and bush; mostly bush | |
| | | Dec., 1933 | .15 | .79 | .52 | 1.25 | .03 | .29 | .29 | 11.6 | 26.5 | 5.28 | Grass, mainly brown, and bush. |
| | | Mar., 1934 | .13 | .65 | .38 | 1.74 | .01 | .33 | .33 | 7.3 | 34.2 | 4.57 | Grass, mainly green, and bush; mostly grass. |
| Skietfontein..... | Taungs..... | June, 1934 | .059 | .76 | .32 | 1.00 | trace | .26 | 7.2 | 33.7 | 3.47 | Grass, mainly brown, and bush; mostly grass. | |
| | | Sept., 1934 | .065 | .86 | .27 | 1.28 | .02 | .33 | 7.1 | 35.4 | 4.28 | Grass, leafy, and bush; mostly grass. | |
| | | Mar., 1935 | .096 | .62 | .25 | 1.32 | trace | .24 | .24 | 7.5 | 34.6 | 3.61 | Grass, green. |
| | | June, 1935 | .066 | .72 | .22 | .83 | trace | .14 | .48 | 4.8 | 33.8 | 3.11 | Grass, mainly brown, leafy and bush; mostly grass. |
| Skietfontein..... | Taungs..... | Sept., 1935 | .066 | .62 | .17 | .78 | .03 | .19 | 5.8 | 32.6 | 3.00 | Grass, brown, leafy. | |
| | | Jan., 1934 | .24 | 1.03 | .50 | 2.01 | .05 | .40 | .40 | 14.6 | 27.2 | 7.32 | Grass, green, and bush. |
| | | April, 1934 | .13 | .87 | .46 | 1.56 | trace | .28 | .28 | 9.1 | 35.2 | 5.58 | Grass, mainly green, short, and bush; mostly grass. |
| | | July, 1934 | .067 | .93 | .21 | .87 | .05 | .15 | .15 | 5.7 | 33.7 | 3.96 | Grass, mainly brown, and bush. |
| Skietfontein..... | Taungs..... | Oct., 1934 | .089 | 1.43 | .40 | 1.13 | .02 | .18 | 8.0 | 28.8 | 5.22 | Grass, mainly brown, and bush; mostly bush. | |
| | | April, 1935 | .13 | 1.18 | .37 | 1.30 | .21 | .19 | .19 | 9.1 | 31.8 | 5.40 | Grass and shrub. |
| | | July, 1935 | .092 | 1.03 | .33 | .89 | .19 | .24 | .24 | 6.5 | 34.2 | 4.57 | Grass, mainly brown, leafy, and bush. |
| | | Oct., 1935 | .065 | .57 | .22 | .52 | .02 | .08 | .08 | 5.2 | 35.8 | 3.04 | Grass, mainly green. |

AREA 12 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|------------------|---------------|-------------|------|------|-----|------|-------|-----|----------------|--------------|--------------|-------------------------------|--|
| Lewis..... | Kuruman..... | Nov., 1933 | .049 | .14 | .03 | .15 | .03 | .02 | 3.1 | 35.1 | .95 | Grass, brown. | |
| | | Feb., 1934 | .12 | .28 | .10 | 1.65 | .03 | .27 | 7.7 | 38.2 | 3.26 | Grass, green. | |
| | | Aug., 1934 | .028 | .29 | .07 | .44 | trace | .04 | .27 | 2.7 | 37.6 | 1.35 | Grass, brown, long. |
| | | Nov., 1934 | .042 | .17 | .05 | .33 | trace | .04 | .35 | 3.5 | 39.2 | 1.04 | Grass, mainly brown, long. |
| | | May, 1935 | .069 | .29 | .04 | .31 | trace | .05 | .36 | 3.6 | 40.8 | 1.29 | Grass, mainly brown, long. |
| | | Aug., 1935 | .026 | .18 | .05 | .22 | .01 | .07 | .37 | 3.7 | 39.3 | .98 | Grass, mainly brown, long. |
| | | Dec., 1933 | .043 | .12 | .02 | .11 | trace | .02 | .30 | 3.0 | 42.2 | .78 | Grass, brown. |
| | | Mar., 1934 | .098 | .28 | .11 | 1.45 | .03 | .34 | .37 | 7.8 | 37.6 | 2.73 | Grass, green. |
| Beaumont..... | Kuruman..... | June, 1934 | .051 | .27 | .08 | .49 | trace | .09 | 2.7 | 39.7 | 1.57 | Grass, brown, long. | |
| | | Sept., 1934 | .038 | .24 | .04 | .33 | trace | .07 | 4.2 | 37.4 | 1.32 | Grass, brown, long. | |
| | | Dec., 1934 | .085 | .22 | .06 | .75 | .03 | .10 | .44 | 4.4 | 40.8 | 1.62 | Grass, mainly green, long. |
| | | April, 1935 | .074 | .28 | .06 | .50 | trace | .09 | .44 | 4.4 | 36.5 | 1.45 | Grass, mainly green, long. |
| | | July, 1935 | .044 | .18 | .07 | .29 | trace | .07 | 4.1 | 4.1 | 41.8 | 1.06 | Grass, brown, long. |
| | | Jan., 1934 | .067 | .20 | .07 | .81 | .01 | .06 | 5.7 | 5.7 | 40.2 | 1.97 | Grass. |
| | | April, 1934 | .14 | .33 | .13 | 1.65 | .05 | .36 | 5.2 | 5.2 | 38.5 | 3.44 | Grass, mainly green, long. |
| | | July, 1934 | .11 | .27 | .06 | .94 | .02 | .23 | 2.5 | 38.1 | 2.13 | 2.13 | Grass, brown, long. |
| Naylan..... | Kuruman..... | Oct., 1934 | .068 | .23 | .10 | .88 | .02 | .09 | 3.3 | 39.2 | 1.94 | Grass, brown, long. | |
| | | Jan., 1935 | .11 | .17 | .07 | .71 | .02 | .10 | 3.8 | 37.5 | 1.67 | Grass, mainly green, long. | |
| | | Mar., 1935 | .13 | .27 | .06 | .77 | trace | .11 | 3.7 | 38.0 | 1.91 | Grass, long. | |
| | | June, 1935 | .055 | .21 | .06 | .39 | trace | .11 | 3.8 | 40.2 | 1.22 | Grass, mainly brown, long. | |
| | | Oct., 1935 | .054 | .26 | .08 | .39 | trace | .05 | 4.2 | 4.2 | 38.4 | 1.44 | Grass, brown, long. |
| | | Nov., 1933 | .13 | .79 | .34 | 1.00 | .01 | .13 | 10.5 | 10.5 | 32.7 | 5.50 | Bush. |
| | | Feb., 1934 | .19 | 1.06 | .23 | 2.19 | .06 | .40 | 13.2 | 13.2 | 30.4 | 8.16 | Bush. |
| | | May, 1934 | .088 | 1.09 | .34 | 1.75 | .05 | .25 | 11.0 | 11.0 | 33.5 | 6.08 | Grass, mainly green, and bush |
| De Rust (De Ben) | Kurumann..... | Aug., 1934 | .063 | .60 | .16 | .67 | trace | .07 | 5.7 | 38.1 | 2.63 | Grass, mainly brown, and bush | |
| | | Oct., 1934 | .16 | 1.03 | .23 | 1.32 | .03 | .16 | 10.7 | 10.7 | 30.7 | 5.93 | Grass, mainly brown, and bush ; mostly bush. |
| | | Jan., 1935 | .10 | .99 | .31 | 1.76 | .04 | .26 | 10.9 | 10.9 | 32.6 | 5.40 | Bush. |
| | | April, 1935 | .19 | 1.60 | .44 | 2.06 | .42 | .34 | 12.3 | 12.3 | 26.9 | 8.05 | Bush. |
| | | Aug., 1935 | .037 | .30 | .08 | .44 | .01 | .06 | 3.7 | 3.7 | 39.7 | 1.68 | Grass and bush ; mostly grass. |
| | | Jan., 1934 | .35 | 1.22 | .43 | 2.57 | .05 | .27 | 20.5 | 20.5 | 25.2 | 11.30 | Grass, green, and bush. |
| | | April, 1934 | .16 | 1.56 | .38 | 1.91 | .03 | .13 | 13.1 | 13.1 | 27.7 | 7.64 | Grass and bush ; mostly bush. |
| | | July, 1934 | .045 | .60 | .10 | .33 | .01 | .06 | 5.0 | 5.0 | 37.3 | 2.14 | Grass, mainly brown. |
| Parys..... | Kuruman..... | Nov., 1934 | .056 | .62 | .16 | .56 | trace | .04 | 6.4 | 38.2 | 2.46 | Bush. | |
| | | May, 1935 | .087 | .79 | .15 | 1.10 | .01 | .15 | 7.5 | 7.5 | 38.6 | 3.76 | Grass, mainly green, and bush. |
| | | Sept., 1935 | .077 | .92 | .35 | .84 | .13 | .06 | 9.9 | 9.9 | 31.5 | 4.40 | Grass, brown, and bush ; mostly grass. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 12 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|-----------------|--------------|-------------|------|------|-----|------|-------|-----|----------------|--------------|--------------|--------------------------------|
| Curtis..... | Kuruman..... | Mar., 1934 | .18 | 1.42 | .43 | 1.98 | .03 | .67 | 16.5 | 25.2 | 8.65 | Bush. |
| | | June, 1934 | .087 | 1.47 | .51 | 1.36 | .04 | .15 | 13.7 | 30.5 | 6.30 | Grass, mainly brown, and bush. |
| | | Sept., 1934 | .051 | .57 | .13 | .56 | .01 | .07 | 5.5 | 5.5 | 2.48 | Grass, brown, and bush. |
| | | Dec., 1934 | .14 | .96 | .28 | 2.23 | .08 | .54 | 12.6 | 12.6 | 6.93 | Bush. |
| | | Mar., 1935 | .083 | .93 | .24 | 1.18 | .02 | .19 | 8.3 | 37.5 | 4.50 | Grass, mainly green, and bush; |
| | | Oct., 1935 | .066 | .38 | .07 | .39 | .02 | .03 | 4.7 | 39.1 | 1.80 | Grass, brown. |
| Twyfel..... | Kuruman..... | Jan., 1934 | .03 | .18 | .06 | .24 | .01 | .03 | 3.9 | 44.1 | 1.48 | Grass, brown. |
| | | April, 1934 | .08 | .34 | .17 | 1.29 | .04 | .14 | 5.6 | 36.5 | 2.66 | Grass, mainly green, short. |
| | | Oct., 1934 | .067 | .34 | .11 | .51 | trace | .09 | 4.7 | 40.9 | 1.97 | Grass. |
| | | Jan., 1935 | .037 | .17 | .05 | .45 | trace | .09 | 3.8 | 37.1 | 1.32 | Grass, leafy. |
| | | April, 1935 | .087 | .29 | .12 | .86 | .04 | .13 | 4.7 | 37.0 | 2.14 | Grass, mainly green. |
| | | July, 1935 | .053 | .44 | .12 | .24 | trace | .08 | 3.3 | 41.1 | 1.78 | Grass, mainly brown. |
| Rosendal..... | Kuruman..... | Feb., 1934 | .087 | .29 | .12 | 1.05 | .02 | .08 | 7.2 | 39.6 | 2.65 | Grass, mainly green. |
| | | Aug., 1934 | .047 | .26 | .10 | .45 | trace | .07 | 3.6 | 36.6 | 1.48 | Grass, mainly brown. |
| | | Oct., 1934 | .056 | .27 | .10 | .23 | trace | .04 | 4.5 | 39.1 | 1.76 | Grass, mainly brown, short. |
| | | Feb., 1935 | .13 | .44 | .30 | 1.32 | .03 | .20 | 8.5 | 38.0 | 3.53 | Grass, green. |
| | | June, 1935 | .038 | .21 | .07 | .26 | trace | .05 | 2.9 | 42.3 | 1.12 | Grass, mainly brown. |
| | | Aug., 1935 | .026 | .30 | .08 | .17 | .01 | .07 | 3.0 | 38.5 | 1.31 | Grass, brown. |
| Mooihoek..... | Kuruman..... | Mar., 1934 | .12 | .41 | .34 | 2.61 | .04 | .35 | 8.3 | 40.1 | 5.78 | Grass. |
| | | June, 1934 | .065 | .39 | .15 | .83 | .06 | .17 | 6.1 | 37.0 | 2.53 | Grass, mainly brown, and bush. |
| | | Sept., 1934 | .076 | .25 | .14 | .92 | .02 | .13 | 6.3 | 38.0 | 2.01 | Grass. |
| | | Mar., 1935 | .10 | .39 | .12 | .87 | .06 | .11 | 5.1 | 43.2 | 2.42 | Grass, green, long. |
| | | June, 1935 | .043 | .31 | .08 | .31 | trace | .06 | 2.8 | 36.1 | 1.36 | Grass. |
| | | Mar., 1935 | .07 | .25 | .09 | .85 | .02 | .17 | 5.5 | 35.1 | 2.04 | Grass, green, long. |
| Vlakplaats..... | Vryburg..... | June, 1935 | .04 | .25 | .09 | .44 | trace | .07 | 2.8 | 39.3 | 1.40 | Grass, brown, long. |
| | | Sept., 1935 | .047 | .25 | .08 | .36 | .02 | .09 | 3.6 | 39.8 | 1.51 | Grass, brown. |
| | | May, 1935 | .10 | .46 | .26 | 1.57 | .03 | .31 | 6.3 | 36.8 | 3.47 | Grass, mainly green, long. |
| Uitval..... | Vryburg..... | Aug., 1935 | .064 | .36 | .14 | .77 | .02 | .14 | 4.6 | 38.7 | 2.27 | Grass, brown, long. |

AREA 12 (continued).

P. J. DU TOIT, J. G. LOUW AND A. I. MALAN.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Pro-tein. | Crude Fibre. | Solu-ble Ash. | Description of Sample. | |
|-------------------|----------------|-------------|------|-----|-----|------|-------|-----|-----------------|--------------|---------------|---|--|
| Woodhouse..... | Vryburg..... | July, 1935 | .053 | .19 | .10 | .32 | trace | .06 | 2.5 | 38.7 | 1.48 | Grass, brown, long. | |
| | | Oct., 1935 | .08 | .26 | .09 | .36 | .02 | .02 | 3.3 | 34.8 | 1.71 | Grass, brown. | |
| Mistake..... | Vryburg..... | Dec., 1933 | .18 | .30 | .23 | 1.11 | .03 | .33 | 14.1 | 30.9 | 4.92 | Grass, mainly green, and bush ; mostly grass. | |
| | | Mar., 1934 | .14 | .38 | .17 | 1.66 | .03 | .37 | 7.9 | 35.0 | 3.55 | Grass, mainly green. | |
| | | June, 1934 | .047 | .44 | .09 | .62 | — | .10 | .10 | 5.0 | 35.4 | 2.23 | Grass, mainly brown, and bush ; mostly grass. |
| | | Sept., 1934 | .07 | .51 | .15 | 1.02 | trace | .18 | .18 | 6.2 | 36.4 | 2.98 | Grass, and bush ; mostly grass. |
| | | Jan., 1935 | .088 | .39 | .12 | 1.21 | .03 | .19 | .19 | 6.2 | 35.4 | 2.70 | Grass, mainly green, and bush ; mostly grass. |
| | | April, 1935 | .14 | .40 | .16 | 1.47 | .06 | .38 | .38 | 7.5 | 34.7 | 3.50 | Grass, green. |
| Belmont..... | Vryburg..... | July, 1935 | .073 | .53 | .12 | .65 | .01 | .14 | 5.0 | 33.3 | 2.55 | Grass, brown, and bush ; mostly grass. | |
| | | Jan., 1934 | .14 | .32 | .16 | 2.06 | .02 | .42 | 9.0 | 38.0 | 4.31 | Grass, mainly green. | |
| Renosterfontein.. | Vryburg..... | April, 1934 | .11 | .51 | .17 | 1.54 | .03 | .34 | 10.0 | 33.3 | 4.19 | Grass, mainly green, and bush ; mostly grass. | |
| | | July, 1934 | .063 | .53 | .18 | 1.01 | .01 | .23 | 6.5 | 33.7 | 3.17 | Grass, mainly brown, and bush. | |
| | | Dec., 1934 | .13 | .33 | .16 | 1.89 | .04 | .54 | .04 | 9.2 | 32.4 | 3.80 | Grass, green. |
| | | Feb., 1935 | .12 | .33 | .11 | 1.18 | trace | .25 | .25 | 6.6 | 36.1 | 2.66 | Grass, mainly green, and bush mostly grass. |
| | | June, 1935 | .07 | .57 | .15 | .83 | trace | .15 | .15 | 6.9 | 36.0 | 2.65 | Grass, mainly brown, and bush. |
| | | Oct., 1935 | .073 | .46 | .12 | .72 | .04 | .11 | .11 | 5.1 | 36.8 | 2.53 | Grass, mainly brown. |
| Danielskuil..... | Barkley West.. | Feb., 1934 | .12 | .35 | .25 | 1.60 | .02 | .32 | 8.4 | 34.6 | 3.52 | Grass, green. | |
| | | May, 1934 | .057 | .68 | .15 | .95 | trace | .20 | 5.2 | 37.9 | 2.72 | Grass and bush ; mostly grass. | |
| | | Aug., 1934 | .059 | .56 | .18 | .72 | trace | .11 | .11 | 5.7 | 35.7 | 2.65 | Grass, mainly brown, leafy, and bush ; mostly grass. |
| | | Nov., 1934 | .097 | .39 | .13 | 1.38 | trace | .23 | .23 | 8.2 | 34.2 | 2.87 | Grass, green, leafy. |
| | | Mar., 1935 | .073 | .70 | .12 | .97 | trace | .20 | .20 | 6.1 | 35.7 | 3.57 | Grass, mainly brown, and bush. |
| | | May, 1935 | .074 | .55 | .18 | .53 | .02 | .07 | .07 | 4.1 | 37.6 | 2.24 | Grass, mainly green, long. |
| Gordonshoop..... | Barkley West.. | Aug., 1935 | .06 | .73 | .19 | .85 | .02 | .15 | 5.5 | 34.8 | 3.45 | Grass, brown, and bush. | |
| | | Mar., 1934 | .11 | .31 | .10 | .95 | .02 | .17 | .17 | 6.3 | 38.6 | 2.34 | Grass, green. |
| Kramerfontein.... | Barkley West.. | Aug., 1934 | .03 | .44 | .17 | .67 | trace | .15 | 3.1 | 38.8 | 2.07 | Grass, brown. | |
| | | April, 1934 | .11 | .42 | .24 | 1.39 | .02 | .19 | .19 | 8.4 | 34.9 | 4.17 | Grass, mainly green. |
| Kramerfontein.... | Barkley West.. | June, 1934 | .08 | .36 | .11 | .53 | .01 | .12 | 5.9 | 36.9 | 1.98 | Grass, mainly brown. | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 12 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|-------------------|----------------|-------------|------|------|-----|------|-------|-----|----------------|--------------|--------------|--|
| Merton..... | Kimberley..... | Jan., 1934 | .17 | .43 | .17 | 1.77 | .04 | .20 | 8.2 | 39.3 | 4.36 | Grass and bush; mostly grass. |
| | | April, 1934 | .084 | .82 | .21 | 1.52 | .04 | .26 | 4.5 | 38.9 | 4.05 | Grass, short and bush. |
| | | July, 1934 | .14 | .76 | .34 | 1.13 | .01 | .12 | 7.0 | 36.9 | 4.17 | Grass, brown, short and bush; mostly grass. |
| | | Oct., 1934 | .08 | .27 | .06 | .40 | .03 | .05 | 4.9 | 36.3 | 1.53 | Grass, brown. |
| | | Jan., 1935 | .11 | .34 | .17 | 1.80 | .04 | .48 | 6.6 | 37.4 | 3.62 | Grass, green. |
| | | April, 1935 | .16 | .49 | .22 | 1.39 | .04 | — | 8.1 | 36.4 | 3.80 | Grass, green. |
| | | July, 1935 | .23 | .56 | .26 | 1.85 | .03 | — | 12.9 | 30.1 | 4.98 | Grass, brown, short and bush. |
| | | Oct., 1935 | .17 | .65 | .21 | 1.28 | .06 | .31 | 9.3 | 36.8 | 3.92 | Grass, mainly green, short. |
| | | Feb., 1934 | .22 | 1.23 | .58 | 2.50 | .03 | .46 | 14.4 | 23.8 | 8.58 | Grass, green, short, and bush. |
| | | May, 1934 | .10 | .63 | .29 | 1.02 | .02 | .27 | 6.9 | 38.7 | 3.46 | Grass, brown, short, and bush; mostly grass. |
| Roopan..... | Kimberley..... | Aug., 1934 | — | 1.68 | — | 1.08 | trace | — | 9.2 | 34.2 | 6.46 | Bush. |
| | | Nov., 1934 | .09 | .54 | .19 | 1.05 | .02 | .18 | 7.5 | 38.6 | 3.10 | Grass and bush; mostly grass. |
| | | Feb., 1935 | .21 | .47 | .13 | 1.72 | trace | .62 | 5.5 | 32.0 | 4.22 | Grass, short. |
| | | June, 1935 | .14 | 1.54 | .41 | 1.56 | .09 | .35 | 10.7 | 32.0 | 7.16 | Grass, mainly green, and bush; mostly bush. |
| | | Aug., 1935 | .10 | .84 | .27 | .93 | trace | .15 | 7.2 | 41.0 | 4.73 | Grass, brown, short, and bush. |
| | | Mar., 1934 | .25 | 1.95 | .70 | 2.28 | .02 | .47 | 11.0 | 32.3 | 10.30 | Grass, green, short, and bush. |
| | | July, 1934 | .14 | 2.35 | .63 | 2.36 | .03 | .34 | 12.1 | 27.4 | 11.30 | Bush. |
| | | Sept., 1934 | .075 | .21 | .08 | 1.24 | .04 | .30 | 6.4 | 38.4 | 3.07 | Grass, short. |
| Skietpanskop..... | Kimberley..... | Dec., 1934 | .11 | 1.64 | .76 | 2.73 | .05 | — | — | — | 10.54 | Grass, green, short and bush; mostly bush. |
| | | Mar., 1935 | .17 | .34 | .14 | 1.25 | .07 | — | 8.9 | — | 4.33 | Grass, mainly green, short. |
| | | June, 1935 | .14 | 1.50 | .58 | 2.02 | .36 | .36 | 14.8 | 23.9 | 8.82 | Bush. |
| Miskraal..... | Kimberley..... | Mar., 1934 | .15 | .56 | .31 | 1.60 | .03 | .33 | 8.0 | 35.6 | 4.60 | Grass, green, and bush; mostly grass. |
| | | Nov., 1934 | .16 | .91 | .54 | 1.70 | .17 | .47 | 13.0 | 35.0 | 6.62 | Grass, mainly green, and bush. |
| | | July, 1935 | .18 | 1.83 | .68 | 2.15 | .16 | .40 | 12.6 | 31.8 | 9.82 | Bush. |
| | | Oct., 1935 | .13 | .75 | .24 | 1.60 | .02 | .32 | 8.3 | 33.3 | 4.27 | Grass, mainly green, and bush. |

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|------------------|-----------------|-------------|------|------|-------|------|-------|------|----------------|---------------------------------------|--------------|---|
| Skietmekaar..... | Fauresmith.... | Feb., 1934 | .17 | .32 | .20 | 2.76 | .03 | .53 | 12.2 | 32.0 | 5.40 | Grass, mainly green. |
| | | May, 1934 | .17 | 1.38 | .95 | 3.04 | .24 | .83 | 14.8 | 23.6 | 12.22 | Grass and bush; mostly bush. |
| | | Aug., 1934 | .18 | .94 | .36 | .66 | .10 | .46 | 7.3 | 29.7 | 5.17 | Grass, mainly brown, leafy, and bush; mostly grass. |
| | | Nov., 1934 | .32 | 1.01 | .40 | 2.28 | .11 | .96 | 16.5 | 24.3 | 7.40 | Grass, green, and bush; mostly bush. |
| | | Feb., 1935 | .16 | .65 | .48 | 1.34 | .10 | .66 | 9.3 | 32.6 | 5.40 | Grass, mainly green, and bush; mostly grass. |
| | | May, 1935 | .19 | .98 | .44 | 1.21 | .13 | .55 | 13.5 | 26.0 | 6.94 | Grass, green, and bush; mostly grass. |
| | | Aug., 1935 | .16 | 1.21 | .46 | 1.39 | .33 | .60 | 12.0 | 20.2 | 7.73 | Bush. |
| | | Nov., 1935 | .15 | .50 | .23 | 1.09 | .11 | .44 | 8.8 | 30.5 | 3.84 | Grass, mainly green, and bush; mostly grass. |
| | | Mar., 1934 | .18 | .47 | .45 | 2.39 | .15 | .75 | 11.1 | 32.0 | 6.14 | Grass, mainly green, and bush; mostly grass. |
| | | June, 1934 | .16 | .55 | .15 | 1.10 | .13 | .87 | 6.6 | 31.2 | 4.23 | Grass, mainly brown, and bush; mostly grass. |
| | | Sept., 1934 | .077 | .35 | .10 | .53 | .03 | .22 | 4.6 | 37.6 | 1.78 | Grass, brown, and bush; mostly grass. |
| Brandewyns Kuil. | Fauresmith.... | Dec., 1934 | .20 | .33 | — | 1.01 | .07 | .37 | 7.4 | 30.6 | 4.28 | Grass, mainly green, short. |
| | | Mar., 1935 | .18 | .53 | .14 | 1.19 | .03 | .18 | 7.0 | 35.8 | 4.20 | Grass, mainly green, and bush; mostly grass. |
| | | June, 1935 | .12 | .79 | .20 | .62 | .04 | .21 | 7.5 | 30.3 | 4.25 | Grass and bush; mostly bush. |
| | | Sept., 1935 | .13 | .96 | .34 | .54 | .03 | .16 | 9.0 | 28.8 | 4.84 | Grass and bush; mostly grass. |
| | | Jan., 1934 | .30 | .57 | .45 | 3.15 | .05 | .50 | 18.0 | 26.0 | 7.70 | Grass, green and bush. |
| | | April, 1934 | .23 | .42 | .27 | 1.58 | .04 | .15 | 8.6 | 32.8 | 4.22 | Grass, short. |
| | | July, 1934 | .19 | 1.34 | .59 | 1.88 | .38 | .63 | 9.8 | 25.1 | 8.38 | Grass, mainly brown, and bush; mostly bush. |
| | | Oct., 1934 | .16 | 1.11 | .28 | 1.63 | .04 | .64 | 9.1 | 26.7 | 7.52 | Grass, mainly green, and bush; mostly bush. |
| | | Jan., 1935 | .30 | 1.79 | 1.05 | 3.56 | .81 | .63 | 19.1 | 25.6 | 15.42 | Grass, green, and bush; mostly bush. |
| | | April, 1935 | .23 | .82 | .32 | 1.21 | trace | .60 | 11.1 | 24.1 | 5.66 | Grass, mainly green, and bush; mostly grass. |
| | | July, 1935 | .21 | 1.32 | .49 | 1.75 | .43 | .43 | 10.2 | 25.1 | 8.11 | Grass and bush; mostly bush. |
| Oct., 1935 | .18 | .90 | .36 | 1.65 | trace | .36 | 12.2 | 25.1 | 5.58 | Grass, green, and bush; mostly grass. | | |
| Boesmansfontein. | Philippolis.... | Jan., 1934 | .18 | .56 | .23 | 2.04 | .05 | .39 | 11.6 | 30.6 | 5.44 | Grass, green, and bush. |
| | | April, 1934 | .21 | .62 | .25 | 1.56 | .06 | .32 | 8.6 | 29.1 | 4.42 | Grass, mainly green, and bush; mostly grass. |
| | | July, 1934 | .14 | .48 | .15 | .74 | .02 | .11 | 5.8 | 32.8 | 2.54 | Grass, mainly brown, and bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 13 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|-------------------|------------------|-------------|------|------|-----|------|-------|------|----------------|--------------|--------------|---|
| Knapsak..... | Philippolis..... | Feb., 1934 | .15 | .34 | .19 | 1.80 | .03 | .34 | 8.2 | 35.8 | 4.60 | Grass, mainly green, and bush ; mostly grass. |
| | | May, 1934 | .16 | .67 | .31 | 1.41 | .04 | .23 | 6.4 | 33.5 | 4.35 | Grass, mainly brown, and bush. |
| | | Aug., 1934 | .097 | .73 | .32 | 1.09 | .06 | .09 | 6.8 | 36.7 | 4.43 | Bush. |
| Tuinplaats..... | Philippolis..... | Mar., 1934 | .26 | .52 | .32 | 2.04 | .09 | .36 | 9.4 | 32.6 | 5.52 | Grass, mainly green, and bush mostly grass. |
| | | June, 1934 | .25 | .47 | .16 | 1.04 | .04 | .21 | 4.0 | 31.8 | 3.46 | Grass and bush ; mostly grass. |
| Koppieskraal..... | Jacobsdal..... | Jan., 1934 | .20 | .47 | .29 | 2.42 | .04 | .43 | 10.8 | 33.3 | 5.53 | Grass, mainly green, and bush ; mostly grass. |
| | | April, 1934 | .18 | .42 | .24 | 1.55 | .01 | .31 | 6.8 | 37.6 | 4.40 | Grass, mainly brown, and bush ; mostly grass. |
| | | July, 1934 | .15 | .42 | .20 | .93 | .02 | .14 | 4.7 | 38.3 | 2.92 | Grass, brown, and bush ; mostly grass. |
| | | Oct., 1934 | .063 | .26 | .06 | .21 | trace | .02 | 2.6 | 28.1 | 1.23 | Grass, brown, and bush ; mostly grass. |
| | | Jan., 1935 | .10 | .48 | .22 | 1.16 | .11 | .36 | 5.9 | 36.9 | 3.38 | Grass, mainly brown, and bush. |
| | | April, 1935 | .21 | 1.04 | .51 | 3.12 | 1.05 | 1.03 | 11.8 | 27.5 | 10.00 | Grass, green, and bush ; mostly bush. |
| | | July, 1935 | .19 | .91 | .43 | 1.82 | 1.35 | .81 | 10.4 | 33.2 | 7.87 | Grass and bush ; mostly bush. |
| | | Oct., 1935 | .13 | .71 | .40 | 1.55 | 1.10 | .61 | 9.6 | 32.6 | 6.68 | Grass, mainly brown, and bush. |
| | | Feb., 1934 | .15 | .54 | .21 | 1.63 | .04 | .28 | 7.9 | 37.0 | 4.21 | Grass and bush. |
| | | May, 1934 | .083 | .68 | .24 | 1.39 | trace | .24 | 8.3 | 35.5 | 3.95 | Grass, mainly brown, and bush. |
| Thomburg..... | Jacobsdal..... | Aug., 1934 | .082 | .41 | .14 | .93 | .03 | .20 | 5.2 | 40.4 | 2.59 | Grass, brown, and bush. |
| | | Nov., 1934 | .13 | .61 | .29 | 2.00 | .13 | .33 | 10.7 | 32.1 | 5.08 | Grass, mainly green, and bush. |
| | | Feb., 1935 | .18 | .44 | .27 | 1.52 | .09 | .37 | 10.1 | 33.0 | 4.48 | Grass and bush. |
| | | May, 1935 | .27 | .85 | .56 | 2.94 | .05 | .42 | 11.1 | 30.8 | 7.66 | Grass, short, and bush ; mostly bush. |
| | | Aug., 1935 | .24 | .79 | .57 | 2.45 | .29 | .60 | 12.4 | 38.6 | 7.36 | Bush. |
| | | Mar., 1934 | .18 | .73 | .43 | 2.19 | 1.54 | 1.35 | 11.2 | 30.1 | 9.28 | Grass and bush. |
| | | June, 1934 | .12 | .75 | .33 | 1.00 | .52 | .25 | 6.4 | 36.8 | 4.54 | Grass, mainly brown, and bush. |
| | | Sept., 1934 | .10 | .61 | .20 | .71 | .46 | .18 | 4.5 | 36.4 | 3.47 | Grass, brown, and bush ; mostly grass. |
| | | Dec., 1934 | .16 | .70 | .31 | 2.23 | 1.15 | 1.04 | 10.4 | 30.1 | 8.61 | Grass, mainly green, and bush. |
| | | Mar., 1935 | .14 | .59 | .28 | 1.27 | trace | .17 | 6.2 | 34.9 | 3.85 | Grass, and bush. |
| Ramoeth..... | Jacobsdal..... | June, 1935 | .16 | .98 | .44 | 1.98 | trace | .36 | 10.6 | 31.3 | 5.96 | Grass, mainly brown, and bush ; mostly bush. |
| | | Sept., 1935 | .14 | .39 | .17 | .86 | .02 | .10 | 5.6 | 38.7 | 2.87 | Grass, brown, and bush ; mostly grass. |
| | | Mar., 1934 | .16 | 1.63 | .33 | 2.06 | .08 | .71 | 11.0 | 32.0 | 7.60 | Grass and bush ; mostly grass. |
| Bohhou..... | Herbert..... | April, 1935 | .087 | .86 | .21 | .98 | .13 | .11 | 5.9 | 36.5 | 4.08 | Grass and bush. |
| | | May, 1935 | .13 | .84 | .20 | 1.39 | trace | .28 | 9.1 | 31.9 | 4.40 | Grass, mainly green, and bush. |
| | | Sept., 1935 | .10 | .62 | .27 | .92 | .02 | .20 | 7.8 | 35.0 | 3.15 | Grass, brown, and bush. |

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|------------------|----------------|-------------------|---------------|------------|-----|------|-------|------|----------------|--------------|--------------|--|--------------------------------|
| Vlakpan..... | Herbert..... | July, 1934 | .17 | .70 | .30 | 1.47 | .02 | .40 | 7.8 | 33.0 | 4.27 | Grass, brown, and bush. | |
| | | Oct., 1934 | .096 | .41 | .16 | .60 | .01 | .07 | 7.5 | 40.8 | 2.11 | Grass, brown, and bush; mostly grass. | |
| | | Feb., 1935 | .24 | .71 | .23 | 2.17 | trace | .60 | .75 | 7.5 | 34.2 | 5.58 | Grass, mainly green, and bush. |
| | | Aug., 1935 | .14 | .95 | .13 | 1.12 | trace | .27 | 7.2 | 34.1 | 3.62 | Grass, mainly brown, and bush. | |
| | | Dec., 1933 | .22 | .47 | .22 | 2.59 | .07 | .43 | 11.5 | 28.7 | 5.68 | Grass, green, short, and bush. | |
| | | Mar., 1934 | .14 | .21 | .08 | 1.16 | .03 | .25 | 5.0 | 36.6 | 2.57 | Grass. | |
| | | June, 1934 | .10 | .19 | .10 | .73 | .02 | .18 | 2.5 | 37.6 | 1.89 | Grass, mainly brown. | |
| | | Sept., 1934 | .10 | .35 | .07 | .36 | .02 | .03 | 2.7 | 37.4 | 1.62 | Grass, brown, and bush; mostly grass. | |
| | | Dec., 1934 | .17 | .24 | .09 | 1.21 | .04 | .19 | 6.1 | 38.5 | 2.58 | Grass, mainly green. | |
| | | Mar., 1935 | .14 | .21 | .07 | .84 | .01 | .21 | 4.9 | 36.6 | 2.04 | Grass, mainly brown. | |
| Meyerskraal..... | Bethulie..... | July, 1935 | .15 | .39 | .15 | .84 | .03 | .11 | 6.6 | 32.8 | 2.66 | Grass, brown, leafy, and bush. | |
| | | Oct., 1935 | .15 | .26 | .09 | .74 | .01 | .09 | 6.3 | 32.8 | 2.15 | Grass, mainly brown, leafy. | |
| | | Jan., 1934 | .30 | .41 | .21 | 2.87 | .04 | .31 | 12.4 | 35.1 | 6.70 | Grass, mainly green, and bush; mostly grass. | |
| | | April, 1934 | .17 | .23 | .09 | .94 | .03 | .13 | 4.4 | 38.6 | 2.32 | Grass, mainly brown. | |
| | | July, 1934 | .20 | .43 | .12 | .49 | .03 | .04 | 3.5 | 35.5 | 2.27 | Grass, brown, and bush; mostly grass. | |
| | | Oct., 1934 | .16 | .39 | .16 | .58 | .02 | .09 | 4.5 | 31.6 | 2.33 | Grass, brown, and bush; mostly grass. | |
| | | Jan., 1935 | .13 | .21 | .11 | .76 | trace | .14 | 4.8 | 42.2 | 1.90 | Grass, mainly green, long. | |
| | | April, 1935 | .16 | .36 | .12 | .85 | .10 | .09 | 5.5 | 32.9 | 2.58 | Grass. | |
| | | Aug., 1935 | .12 | .31 | .10 | .51 | .03 | .12 | 3.6 | 39.5 | 3.80 | Grass, brown, and bush; mostly grass. | |
| | | Vaalbankfontein.. | Edenburg..... | Feb., 1934 | .28 | .32 | .15 | 1.90 | .04 | .35 | 8.1 | 36.6 | 4.50 |
| Aug., 1934 | .087 | | | .26 | .11 | .38 | .02 | .02 | 2.1 | 36.8 | 1.59 | Grass, brown, long. | |
| Nov., 1934 | .12 | | | .28 | .07 | .73 | trace | .17 | 5.8 | 36.2 | 2.09 | Grass, mainly green, leafy. | |
| Feb., 1935 | .16 | | | .33 | .05 | .91 | trace | .05 | 3.6 | 36.2 | 2.20 | Grass, mainly brown, leafy. | |
| May, 1935 | .15 | | | .30 | .09 | .70 | .02 | .09 | 4.5 | 39.2 | 2.16 | Grass, mainly brown. | |
| Sept., 1935 | .12 | | | .35 | .07 | .58 | .04 | .05 | 4.9 | 34.3 | 3.84 | Grass, brown, leafy. | |
| Dec., 1933 | .26 | | | .31 | .17 | 2.47 | .06 | .44 | 13.8 | 33.7 | 5.26 | Grass, mainly green. | |
| Mar., 1934 | .16 | | | .20 | .17 | 1.91 | .04 | .63 | 5.8 | 32.3 | 3.91 | Grass, mainly green, long. | |
| June, 1934 | .07 | | | .22 | .07 | .25 | .01 | .05 | 2.2 | 38.7 | 1.18 | Grass, brown, long. | |
| Oct., 1934 | .067 | | | .21 | .06 | .16 | trace | .02 | 2.6 | 39.5 | 1.06 | Grass, brown, long. | |
| Daspoort..... | Dewetsdorp.... | Dec., 1934 | .16 | .20 | .10 | 1.53 | .04 | .35 | 9.8 | 34.0 | 3.03 | Grass, green, long. | |
| | | Mar., 1935 | .095 | .22 | .10 | .65 | trace | .13 | 4.9 | 33.4 | 1.77 | Grass. | |
| | | May, 1935 | .10 | .22 | .07 | .31 | trace | .05 | 3.2 | 37.2 | 1.29 | Grass, mainly brown. | |
| | | Sept., 1935 | .074 | .25 | .08 | .11 | .03 | .02 | 3.0 | 36.4 | 1.42 | Grass, brown, leafy. | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 14.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|-------------------|--------------|-------------|-----|------|-----|------|-------|------|----------------|--|--------------|--|
| Charnwood..... | Molteno..... | Dec., 1933 | .19 | .53 | .25 | 1.96 | .05 | .41 | 11.3 | 32.7 | 5.20 | Grass, mainly green, and bush. |
| | | April, 1934 | .20 | .53 | .25 | 1.54 | .06 | .31 | 8.6 | 32.0 | 4.23 | Grass, mainly green, and bush; mostly grass. |
| | | Aug., 1934 | .15 | .45 | .20 | .95 | .05 | .25 | 6.4 | 32.9 | 2.89 | Grass, mainly brown, and bush; mostly grass. |
| Dalkeith..... | Molteno..... | Jan., 1934 | .20 | .38 | .20 | 2.26 | .06 | .38 | 8.8 | 36.6 | 5.04 | Grass, green, and bush. |
| | | Mar., 1934 | .26 | .58 | .25 | 2.07 | .05 | .24 | 10.3 | 31.1 | 5.18 | Grass, mainly green, and bush; mostly grass. |
| | | June, 1934 | .10 | .31 | .11 | .60 | .01 | .17 | 2.7 | 37.3 | 2.19 | Grass, brown. |
| Van Zylsrust..... | Albert..... | Sept., 1934 | .10 | .38 | .16 | .77 | .11 | .13 | 6.3 | 37.9 | 3.85 | Grass, mainly brown, and bush; mostly grass. |
| | | Nov., 1933 | .23 | .79 | .20 | 1.35 | .04 | .15 | 10.2 | 34.4 | 5.07 | Grass, green, short, and bush; mostly grass. |
| | | Feb., 1934 | .22 | .26 | .16 | .92 | .04 | .27 | 6.2 | 36.7 | 3.16 | Grass, mainly green. |
| Hartbeestfontein. | Albert..... | May, 1934 | .16 | .45 | .26 | 1.03 | .04 | .32 | 5.3 | 37.4 | 3.30 | Grass, mainly brown, and bush; mostly grass. |
| | | Aug., 1934 | .14 | .47 | .20 | 1.30 | .03 | .22 | 7.5 | 35.0 | 3.46 | Grass and bush; mostly grass. |
| | | Nov., 1934 | .12 | .37 | .14 | 1.01 | .03 | .15 | 6.2 | 36.1 | 2.71 | Grass, mainly green. |
| | | Feb., 1935 | .24 | .61 | .25 | 1.57 | .10 | .64 | 11.9 | 31.7 | 4.57 | Grass, mainly green, and bush. |
| | | May, 1935 | .17 | .48 | .17 | 1.00 | .02 | .15 | 7.5 | 30.2 | 3.65 | Grass, short, and bush. |
| | | Aug., 1935 | .17 | .47 | .19 | 1.17 | trace | .11 | 7.2 | 34.5 | 3.44 | Grass, mainly brown, short, and bush; mostly bush. |
| | | Dec., 1933 | .20 | .40 | .16 | 2.29 | .07 | .45 | 10.7 | 33.3 | 5.27 | Bush. |
| | | Mar., 1934 | .25 | .32 | .25 | 1.56 | .09 | .35 | 6.5 | 35.9 | 4.14 | Grass, mainly green. |
| | | June, 1934 | .16 | .40 | .15 | .80 | .03 | .15 | 4.6 | 33.3 | 2.71 | Grass, mainly brown, short, and bush. |
| | | Sept., 1934 | .10 | .46 | .17 | .75 | .13 | .10 | 5.9 | 36.7 | 2.65 | Grass, brown, and bush. |
| Kapokkraal..... | Albert..... | Dec., 1934 | .16 | .52 | .23 | 1.83 | .23 | .45 | 9.1 | 34.0 | 4.99 | Grass, mainly green, and bush. |
| | | Mar., 1935 | .12 | .37 | .13 | .96 | .01 | .10 | 5.9 | 38.7 | 2.57 | Grass and bush. |
| | | June, 1935 | .17 | .55 | .19 | 1.32 | .03 | .20 | 8.4 | 31.8 | 3.79 | Grass, mainly brown, leafy, and bush. |
| | | Sept., 1935 | .19 | .71 | .24 | 1.53 | .03 | .24 | 9.1 | 35.1 | 4.63 | Grass and bush; mostly bush. |
| | | Jan., 1934 | .14 | .24 | .10 | 1.37 | .04 | .27 | 7.6 | 37.5 | 3.64 | Grass, mainly green. |
| | | April, 1934 | .21 | .39 | .23 | 1.15 | .04 | .27 | 9.6 | 35.1 | 3.30 | Grass and bush; mostly grass. |
| | | July, 1934 | .17 | .57 | .17 | .96 | .08 | .27 | 6.7 | 31.8 | 3.00 | Grass, mainly brown, and bush; mostly grass. |
| | | Oct., 1934 | .12 | .26 | .19 | .90 | .02 | .17 | 7.4 | 27.4 | 2.86 | Grass and bush. |
| | | Jan., 1935 | .19 | .38 | .22 | 1.70 | .09 | .56 | 6.5 | 36.0 | 4.16 | Grass and bush. |
| | | April, 1935 | .13 | .47 | .14 | 1.13 | .06 | .13 | 6.2 | 36.2 | 3.25 | Grass, mainly green, short, and bush; mostly bush. |
| July, 1935 | .11 | .50 | .13 | .42 | .01 | .11 | 5.5 | 37.0 | 2.64 | Grass, mainly brown, short, and bush; mostly bush. | | |
| Oct., 1935 | .16 | .56 | .19 | 1.47 | .13 | .28 | 6.4 | 33.9 | 4.22 | Grass, green, short, and bush. | | |

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | | |
|-------------------|-----------------|------------------|-----------------|-------------|-----|------|-------|------|----------------|--------------|--------------|---------------------------------------|--|--|
| Zeekoegat-Boven. | Venterstad..... | Dec., 1933 | .25 | .37 | .24 | 1.78 | .60 | .82 | 11.9 | 31.0 | 5.19 | Grass, green, and bush; mostly grass. | | |
| | | Mar., 1934 | .23 | .29 | .15 | 1.50 | .08 | .33 | 6.8 | 35.0 | 3.43 | Grass, green, and bush; mostly grass. | | |
| | | June, 1934 | .20 | — | — | — | .49 | .56 | .49 | 5.6 | 33.6 | — | Grass, mainly brown, and bush; mostly grass. | |
| | | Sept., 1934 | .18 | .40 | .15 | .52 | .07 | .10 | .10 | 5.0 | 37.3 | 2.31 | Grass, brown, and bush; mostly grass. | |
| | | Dec., 1934 | .20 | .43 | .28 | 2.08 | .14 | .38 | .38 | 10.0 | 35.2 | 4.81 | Grass, green, and bush; mostly grass. | |
| | | Mar., 1935 | .11 | .35 | .12 | .94 | .04 | .15 | .15 | 6.6 | 38.2 | 2.42 | Grass, mainly green, and bush; mostly grass. | |
| | | June, 1935 | .15 | .41 | .17 | .95 | .07 | .17 | .17 | 6.9 | 34.3 | 3.07 | Grass, brown, and bush. | |
| | | Sept., 1935 | .17 | .44 | .10 | 1.57 | .10 | .25 | .25 | 8.2 | 33.2 | 3.85 | Grass, short, and bush; mostly grass. | |
| | | Karefontein..... | Venterstad..... | Jan., 1934 | .31 | .72 | .31 | 2.88 | .09 | .37 | 17.7 | 29.4 | 7.08 | Grass, green, and bush. |
| | | | | April, 1934 | .23 | .47 | .23 | 1.43 | .04 | .20 | 10.4 | 31.5 | 3.50 | Grass, mainly green, and bush; mostly grass. |
| July, 1934 | .13 | | | .40 | .13 | .52 | .01 | .04 | .04 | 9.8 | 37.1 | 2.18 | Grass, brown, and bush; mostly grass. | |
| Oct., 1934 | .17 | | | .37 | .14 | .72 | .02 | .09 | .09 | 5.2 | 36.1 | 2.30 | Grass, brown, and bush; mostly grass. | |
| Jan., 1935 | .17 | | | .29 | .13 | 1.15 | .02 | .90 | .90 | 4.4 | 38.9 | 2.58 | Grass, long, and bush; mostly grass. | |
| April, 1935 | .18 | | | .33 | .13 | .83 | .03 | .15 | .15 | 7.1 | 31.5 | 2.48 | Grass, mainly green, leafy. | |
| July, 1935 | .17 | | | .53 | .19 | 1.18 | .02 | .15 | .15 | 8.1 | 34.5 | 3.18 | Grass, brown, and bush. | |
| Oct., 1935 | .21 | | | .72 | .22 | 1.68 | .04 | .26 | .26 | 11.7 | 30.8 | 5.00 | Grass, mainly green, leafy, and bush. | |
| Twee Koppies..... | Venterstad..... | | | Feb., 1934 | .15 | .22 | .09 | 1.40 | .02 | .23 | 8.1 | 37.0 | 2.89 | Grass, mainly green, and bush; mostly grass. |
| | | | | May, 1934 | .11 | .48 | .18 | .81 | .01 | .12 | .12 | 7.0 | 33.5 | 2.49 |
| | | Aug., 1934 | .15 | .26 | .15 | .51 | .01 | .03 | .03 | 4.0 | 42.1 | 2.07 | Grass, brown, and bush; mostly grass. | |
| | | Nov., 1934 | .18 | .36 | .12 | 1.08 | .04 | .19 | .19 | 6.4 | — | 2.80 | Grass, mainly green, and bush; mostly grass. | |
| | | Feb., 1935 | .15 | .36 | .12 | .84 | trace | .89 | .89 | 5.2 | 37.7 | 2.27 | Grass, mainly brown, and bush; mostly grass. | |
| | | May, 1935 | .19 | .33 | .10 | .62 | .03 | .08 | .08 | 5.1 | 39.7 | 2.23 | Grass, mainly brown, and bush; mostly grass. | |
| | | Aug., 1935 | .14 | .41 | .14 | .62 | trace | .11 | .11 | 5.6 | 34.6 | 2.33 | Grass, brown, leafy. | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 14 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|-------------------|----------------|-------------|-----|------|-----|------|------|------|----------------|---------------------------------------|--------------|--|-------------------------------|
| Broughton..... | Molteno..... | Nov., 1933 | .22 | .35 | .13 | 1.97 | .06 | .65 | 12.3 | 33.6 | 4.52 | Grass, mainly green. | |
| | | Feb., 1934 | .16 | .25 | .09 | 1.56 | .03 | .37 | 6.4 | 35.3 | 3.40 | Grass, mainly green. | |
| | | May, 1934 | .16 | .42 | .15 | 1.58 | .09 | .36 | .86 | 8.6 | 32.5 | 3.74 | Grass and bush; mostly grass. |
| | | July, 1934 | .16 | .40 | .10 | .91 | .02 | .21 | 7.1 | 32.3 | 2.65 | Grass and bush; mostly grass. | |
| | | Oct., 1934 | .17 | .75 | .16 | 1.34 | .17 | .32 | 8.3 | 31.7 | 4.37 | Grass. | |
| De Vlei..... | Murraysburg... | Nov., 1934 | .24 | .68 | .33 | 2.69 | .37 | .68 | 14.2 | 29.4 | 6.97 | Grass, mainly brown, and bush. | |
| | | Feb., 1935 | .17 | .58 | .15 | 1.08 | .19 | .11 | 7.1 | 35.3 | 4.00 | Bush. | |
| | | Aug., 1935 | .17 | .70 | .25 | 1.40 | .56 | .22 | 9.6 | 30.0 | 4.95 | Bush. | |
| Middelkop..... | Murraysburg... | Dec., 1934 | .14 | .48 | .20 | 1.42 | .49 | .29 | 8.3 | 37.8 | 4.62 | Grass, green, and bush; mostly bush. | |
| | | Mar., 1935 | .15 | 1.09 | .24 | 1.28 | .26 | .07 | 8.5 | 40.4 | 6.02 | Bush. | |
| Snyderskraal..... | Murraysburg... | Sept., 1935 | .16 | .74 | .22 | 1.83 | .49 | .37 | 10.6 | 38.3 | 6.05 | Bush. | |
| | | Jan., 1935 | .15 | .70 | .20 | 1.44 | .43 | .47 | 6.5 | 41.9 | 5.60 | Bush. | |
| | | April, 1935 | .25 | .96 | .27 | 1.70 | .65 | .23 | 8.7 | 26.9 | 6.56 | Bush. | |
| | | July, 1935 | .16 | .64 | .21 | 1.18 | .30 | .21 | 7.4 | 36.9 | 4.59 | Grass, brown, and bush; mostly bush. | |
| Liebeekfontein... | Richmond..... | Oct., 1935 | .21 | .88 | .44 | 2.14 | 1.45 | .78 | 13.6 | 28.0 | 9.96 | Bush. | |
| | | Dec., 1933 | .14 | .89 | .25 | 1.23 | .45 | .29 | 9.9 | 33.7 | 5.71 | Bush. | |
| | | Mar., 1934 | .17 | .67 | .32 | 1.58 | .09 | .31 | 11.0 | 30.6 | 5.10 | Grass, green, short, and bush; mostly grass. | |
| | | June, 1934 | .11 | 1.00 | .25 | 1.22 | .21 | .16 | 7.2 | 28.3 | 5.59 | Bush. | |
| | | Sept., 1934 | .14 | 1.10 | .34 | 1.57 | .09 | .33 | 7.5 | 37.7 | 6.67 | Bush. | |
| Palmietfontein... | Richmond..... | Dec., 1934 | .14 | .39 | .12 | 1.27 | .17 | .23 | 5.7 | 36.6 | 3.20 | Grass, green. | |
| | | Mar., 1935 | .15 | .47 | .11 | 1.48 | .03 | .09 | 6.0 | 43.6 | 3.67 | Bush. | |
| | | June, 1935 | .13 | .79 | .26 | 1.43 | .03 | .15 | 8.9 | 33.1 | 5.25 | Bush. | |
| | | Sept., 1935 | .16 | .71 | .29 | 1.71 | .07 | .17 | 9.0 | 33.9 | 5.10 | Bush. | |
| | | Jan., 1934 | .23 | .26 | .11 | .84 | .06 | .33 | 11.9 | 34.1 | 5.90 | Grass, green, and bush. | |
| April, 1934 | .23 | .59 | .38 | 3.16 | .07 | .51 | 11.4 | 27.6 | 6.95 | Grass, mainly green, short, and bush. | | | |
| Palmietfontein... | Richmond..... | Oct., 1934 | .14 | .47 | .16 | 1.54 | .04 | .16 | 6.1 | 44.1 | — | Bush. | |
| | | Jan., 1935 | .14 | .42 | .13 | 1.21 | .10 | .11 | 7.4 | 44.2 | 3.62 | Bush. | |
| | | May, 1935 | .17 | .53 | .17 | 1.77 | .05 | .18 | 8.1 | 38.1 | 4.60 | Bush. | |
| | | Aug., 1935 | .16 | .73 | .22 | 1.59 | .05 | .23 | 8.5 | 34.7 | 5.06 | Bush. | |

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Pro-tein. | Crude Fibre. | Solu-ble Ash. | Description of Sample. | |
|-------------------|----------------|-------------|-----|------|-----|------|-------|------|-----------------|--------------|---------------|---|-----------------------------|
| Grootfontein..... | Richmond..... | Feb., 1934 | .16 | .44 | .23 | 1.92 | .07 | .25 | 7.1 | 33.7 | 4.34 | Grass, mainly green, and bush; mostly grass. | |
| | | May, 1934 | .08 | .75 | .26 | 1.26 | .08 | .12 | 5.7 | 39.6 | 4.63 | Bush. | |
| | | Nov., 1934 | .14 | 1.04 | .45 | 1.93 | .12 | .39 | .10 | 10.0 | 31.7 | 6.56 | Grass, short, and bush. |
| | | April, 1935 | .15 | .86 | .24 | 1.93 | .16 | .18 | .08 | 8.1 | 29.7 | 5.38 | Bush. |
| | | July, 1935 | .23 | .58 | .29 | 1.32 | .80 | .32 | .91 | 39.5 | 39.5 | 5.72 | Bush. |
| | | Oct., 1935 | .26 | 1.65 | .99 | 2.91 | .06 | .59 | 10.8 | 30.9 | 30.9 | 10.63 | Bush. |
| Onbekend..... | Middelburg.... | April, 1934 | .27 | 1.13 | .30 | 2.80 | .03 | .60 | 13.2 | 30.6 | 7.45 | Grass, mainly green, leafy, and bush; mostly grass. | |
| | | June, 1934 | .19 | 1.19 | .48 | 2.09 | .15 | .37 | .12 | 12.0 | 28.3 | 7.44 | Bush. |
| | | Mar., 1935 | .12 | .90 | .56 | 2.73 | 1.12 | .40 | .98 | 34.5 | 34.5 | 9.20 | Bush. |
| | | Sept., 1935 | .25 | .73 | .36 | 2.63 | .37 | .88 | 15.2 | 25.8 | 25.8 | 7.34 | Grass, green, leafy. |
| | | Jan., 1934 | .26 | .39 | .19 | 2.00 | .04 | .33 | .95 | 33.2 | 33.2 | 4.67 | Grass, mainly green. |
| Lansdowne..... | Middelburg.... | April, 1934 | .21 | .82 | .26 | 2.26 | .07 | .32 | 8.7 | 33.6 | 6.16 | Grass, mainly green, and bush; mostly bush. | |
| | | July, 1934 | .12 | .43 | .13 | 1.21 | .12 | .15 | 6.5 | 43.9 | 3.69 | Bush. | |
| | | April, 1935 | .23 | 1.47 | .38 | 2.54 | .43 | .34 | 11.8 | 30.9 | 8.36 | Bush. | |
| | | Oct., 1935 | .16 | .49 | .29 | 1.45 | .11 | .30 | 7.3 | 38.6 | 3.81 | Grass, mainly brown, and bush; mostly bush. | |
| | | Dec., 1933 | .26 | .29 | .10 | 2.85 | .05 | .28 | 12.3 | 28.1 | 28.1 | — | Grass, mainly green, short. |
| Hillmoor..... | Steynsburg.... | Mar., 1934 | .13 | .31 | .15 | 1.33 | .02 | .23 | 6.8 | 35.5 | 2.68 | Grass, mainly green. | |
| | | June, 1934 | .16 | .54 | .20 | .98 | .03 | .17 | 7.6 | 31.7 | 3.92 | Grass, mainly green, and bush. | |
| | | Sept., 1934 | .11 | .36 | .13 | 1.08 | .03 | .08 | 5.5 | 35.5 | 2.06 | Grass, mainly brown, short, and bush; mostly grass. | |
| | | Feb., 1935 | .15 | .28 | .07 | 1.15 | trace | .21 | 5.7 | 27.7 | 2.71 | Grass, mainly green, short. | |
| | | May, 1935 | .21 | .39 | .17 | 1.41 | trace | .16 | 8.0 | 33.2 | 3.52 | Grass, mainly green, short, and bush; mostly bush. | |
| Grootvlei..... | Steynsburg.... | Aug., 1935 | .18 | .56 | .16 | 1.40 | .03 | .16 | 9.2 | 32.1 | 3.97 | Grass, mainly brown, short, and bush. | |
| | | Jan., 1934 | .27 | .48 | .29 | 2.62 | .07 | .39 | 12.1 | 34.4 | 6.60 | Grass, brown, and bush; mostly bush. | |
| | | April, 1934 | .31 | .78 | .74 | 2.89 | .28 | .95 | 11.8 | 28.4 | 8.32 | Grass, leafy, and bush. | |
| | | July, 1934 | .20 | 1.33 | .67 | 2.25 | .03 | 1.02 | 17.3 | 24.6 | 8.15 | Bush. | |
| | | Oct., 1934 | .16 | 1.07 | .47 | 2.09 | 1.01 | .41 | 12.7 | 30.8 | 9.00 | Bush. | |
| Grootvlei..... | Steynsburg.... | Mar., 1935 | .23 | 1.48 | .92 | 2.87 | .63 | .33 | 9.6 | 32.7 | 10.55 | Bush. | |
| | | June, 1935 | .18 | .96 | .43 | 1.59 | .04 | .40 | 9.9 | 29.4 | 5.68 | Bush. | |
| | | Sept., 1935 | .22 | .98 | .49 | 2.70 | .07 | .46 | 10.4 | 24.5 | 7.91 | Bush. | |
| | | Jan., 1934 | .27 | .48 | .29 | 2.62 | .07 | .39 | 12.1 | 34.4 | 6.60 | Grass, brown, and bush; mostly bush. | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 14 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|--------------------|-----------------|-------------|-----|------|-----|------|-------|------|----------------|--------------|--------------|---|
| Jakhalsfontein.... | Colesberg..... | Feb., 1934 | .21 | .33 | .22 | 2.41 | .36 | .54 | 11.3 | 31.9 | 6.01 | Grass, mainly green, and bush. |
| | | May, 1934 | .36 | .77 | .35 | 3.17 | .10 | 1.08 | 11.5 | 30.4 | 8.02 | Grass, mainly green, short, and bush. |
| | | Aug., 1934 | .20 | .47 | — | 1.84 | .02 | .24 | 7.1 | 39.0 | 4.83 | Grass, short, and bush; mostly bush. |
| | | Nov., 1934 | .26 | .70 | .26 | 2.52 | .04 | .50 | 13.9 | 31.8 | 6.54 | Bush. |
| | | April, 1935 | .22 | .58 | .21 | 1.74 | .08 | .13 | 8.8 | 30.6 | 4.44 | Bush. |
| | | July, 1935 | .15 | .71 | .24 | 1.40 | trace | .20 | 9.2 | 33.4 | 4.47 | Bush. |
| | | Oct., 1935 | .18 | .46 | .30 | 1.59 | .25 | .26 | 9.0 | 34.7 | 4.30 | Grass and bush; mostly grass. |
| | | Jan., 1934 | .44 | .52 | .30 | 2.55 | .95 | 1.05 | 12.9 | 31.3 | 8.66 | Grass, mainly green, and bush; mostly grass. |
| | | April, 1934 | .16 | 1.04 | .52 | 1.69 | .58 | .40 | 9.3 | 24.4 | 6.44 | Grass, mainly brown, short, and bush; mostly grass. |
| | | July, 1934 | .19 | 1.20 | .36 | 1.91 | .26 | .28 | 8.8 | 35.0 | 7.19 | Bush. |
| Carnilrust..... | Philipstown.... | Oct., 1934 | .17 | .79 | .53 | 1.61 | .41 | .28 | 8.6 | 26.2 | 6.24 | Bush. |
| | | Jan., 1935 | .12 | .56 | .30 | 1.81 | .04 | .23 | 6.9 | 41.0 | 4.43 | Grass, mainly green, short, and bush; mostly bush. |
| | | April, 1935 | .24 | .82 | .39 | 1.70 | .37 | .54 | 10.3 | — | 6.88 | Bush. |
| | | July, 1935 | .17 | .82 | .40 | 1.44 | .24 | .20 | 8.5 | 40.3 | 5.34 | Bush. |
| | | Oct., 1935 | .21 | .55 | .24 | 1.63 | .17 | .24 | 8.5 | 32.0 | 4.21 | Grass, green, short, and bush. |
| | | Feb., 1934 | .24 | .90 | .59 | 2.69 | .54 | .43 | 14.2 | 27.6 | 9.00 | Grass, mainly green, and bush. |
| | | May, 1934 | .15 | 1.00 | .35 | 2.36 | .02 | .26 | 9.8 | 28.8 | 7.14 | Grass, mainly brown, and bush. |
| | | Aug., 1934 | .16 | .56 | .38 | 1.59 | 2.74 | 1.87 | 8.1 | 32.3 | 10.96 | Grass, brown, and bush; mostly bush. |
| | | Nov., 1934 | .14 | .53 | .29 | 1.98 | 1.05 | .41 | 9.8 | 33.7 | 7.36 | Bush. |
| | | Feb., 1935 | .15 | .79 | .38 | 2.23 | .23 | .32 | 9.3 | 35.7 | 6.61 | Bush. |
| Oosthuisfontein... | Philipstown.... | May, 1935 | .20 | 1.04 | .58 | 2.84 | .41 | .54 | 12.4 | 31.9 | 8.96 | Bush. |
| | | Aug., 1935 | .20 | .84 | .50 | 2.65 | 2.13 | 1.49 | 12.0 | 28.9 | 12.20 | Bush. |
| | | Mar., 1934 | .30 | .79 | .31 | 2.46 | .07 | .36 | 15.4 | 25.5 | 7.42 | Grass, green, short, and bush. |
| | | June, 1934 | .15 | .78 | .21 | 1.47 | .04 | .21 | 9.7 | 34.7 | 4.56 | Bush. |
| | | Sept., 1934 | .10 | .70 | .23 | 1.65 | .03 | .12 | 6.3 | 44.3 | 3.95 | Bush. |
| Mar., 1935 | .16 | .81 | .24 | 1.52 | .07 | .09 | 7.7 | 37.9 | 5.32 | Bush. | | |
| June, 1935 | .16 | .92 | .42 | 2.13 | .04 | .29 | 10.4 | 28.7 | 6.74 | Bush. | | |
| Sept., 1935 | .15 | .97 | .35 | 1.26 | .05 | .12 | 8.0 | 34.3 | 5.68 | Bush. | | |

AREA 14 (continued).

P. J. DU TOIT, J. G. LOUW AND A. I. MALAN.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|------------------|-------------|-------------|-----|------|-----|------|-----|-----|----------------|--------------|--------------|--|
| De Poort..... | De Aar..... | Feb., 1934 | .25 | .59 | .35 | 3.32 | .52 | .66 | 12.6 | 29.0 | 8.38 | Grass, green, and bush; mostly grass. |
| | | May, 1934 | .11 | .97 | .21 | 1.21 | .71 | .43 | 7.2 | 37.2 | 4.28 | Grass, mainly brown, and bush; mostly grass. |
| | | Nov., 1934 | .15 | .67 | .23 | 1.76 | .26 | .37 | 9.5 | 37.3 | 4.78 | Grass, mainly brown, and bush; mostly bush. |
| | | April, 1935 | .17 | 1.37 | .46 | 2.74 | .26 | .38 | 11.3 | 30.2 | 8.88 | Bush. |
| | | July, 1935 | .16 | 1.20 | .40 | 1.79 | .15 | .35 | 10.6 | 34.2 | 6.97 | Bush. |
| | | Oct., 1935 | .15 | .87 | .34 | 1.53 | .19 | .23 | 7.2 | 35.4 | 5.48 | Bush. |
| | | | | | | | | | | | | |
| Merino..... | De Aar..... | Mar., 1934 | .21 | .85 | .47 | 1.61 | .15 | .39 | 9.5 | 30.3 | 5.90 | Grass, mainly green, and bush; mostly grass. |
| | | June, 1934 | .13 | .80 | .30 | 1.60 | .49 | .36 | 8.2 | 33.7 | 6.24 | Grass, brown, and bush; mostly bush. |
| | | Nov., 1934 | .12 | .61 | .24 | 1.69 | .40 | .44 | 6.2 | 42.9 | 4.95 | Bush. |
| | | May, 1935 | .15 | 1.28 | .52 | 2.58 | .27 | .32 | 10.7 | 36.6 | 8.12 | Bush. |
| | | Aug., 1935 | .18 | .76 | .34 | 1.33 | .15 | .30 | 8.5 | 34.3 | 5.20 | Bush. |
| | | | | | | | | | | | | |
| Badenhorstdam... | De Aar..... | April, 1934 | .11 | .77 | .23 | 1.15 | .01 | .16 | 5.2 | 34.5 | 4.30 | Grass, mainly brown, and bush; mostly grass. |
| | | Sept., 1934 | .09 | .57 | .23 | .54 | .05 | .08 | 7.5 | 37.3 | 2.80 | Grass, brown, and bush; mostly grass. |
| | | Mar., 1935 | .15 | .76 | .35 | 1.92 | .07 | .24 | 11.6 | 33.2 | 5.48 | Grass, mainly green, and bush. |
| | | June, 1935 | .13 | 1.08 | .42 | 2.08 | .04 | .20 | 10.6 | 34.3 | 6.66 | Bush. |
| | | Sept., 1935 | .13 | 1.52 | .69 | 2.30 | .06 | .15 | 12.8 | 31.5 | 8.60 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 15

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|------------------|-----------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|--|--|
| Theescombe..... | Port Elizabeth. | Nov., 1933 | .10 | .41 | .20 | .82 | .51 | .46 | 6.9 | 30.4 | 3.93 | Grass, mainly green, and bush. | |
| | | Feb., 1934 | .04 | .33 | .14 | .53 | .29 | .36 | 4.0 | 31.8 | 2.34 | Grass, mainly brown, and bush; mostly grass. | |
| | | May, 1934 | .033 | .39 | .17 | .37 | .34 | .33 | .33 | 4.0 | 32.2 | 2.46 | Grass and bush. |
| | | Aug., 1934 | .13 | .63 | — | .78 | .43 | .87 | .76 | 8.2 | 33.3 | 3.84 | Grass, and bush; mostly grass. |
| | | April, 1935 | .09 | .93 | .19 | .71 | .44 | .76 | .77 | 6.8 | 33.9 | 4.74 | Grass, mainly green, and bush. |
| | | June, 1935 | .13 | .68 | .23 | 1.39 | .15 | .77 | .44 | 13.5 | 32.6 | 4.74 | Grass, mainly green, and bush. |
| | | Sept., 1935 | .056 | .70 | .23 | .47 | .26 | .38 | .38 | 6.1 | 33.8 | 3.71 | Grass, mainly brown, and bush. |
| | | Jan., 1934 | .08 | .60 | .14 | 1.17 | .20 | .56 | .56 | 6.7 | 33.9 | 4.82 | Grass and bush. |
| | | April, 1934 | .14 | .63 | .26 | 1.07 | .48 | .82 | .82 | 8.7 | 34.6 | 5.00 | Grass and bush; mostly grass. |
| Yellowwoods..... | Port Elizabeth. | Feb., 1935 | .07 | 1.54 | .14 | .88 | .24 | .49 | 6.5 | 33.9 | 5.68 | Grass, mainly green, short, and bush. | |
| | | June, 1935 | .07 | 1.25 | .16 | .81 | .43 | .44 | 6.1 | 32.0 | 5.08 | Grass, mainly green, and bush; mostly bush. | |
| | | Aug., 1935 | .13 | 1.15 | .17 | .85 | .29 | .32 | .32 | 9.1 | 29.4 | 4.66 | Grass, mainly green, leafy, and bush. |
| | | Nov., 1933 | .20 | .79 | .29 | 2.07 | 1.77 | 1.77 | 1.77 | 12.7 | 29.9 | 10.60 | Grass, green, and bush; mostly bush. |
| | | Mar., 1934 | .15 | .50 | .34 | 1.75 | .41 | .66 | .66 | 11.0 | 31.1 | 5.62 | Grass, mainly green, and bush; mostly grass. |
| | | May, 1934 | .14 | 1.20 | .36 | 1.81 | .91 | .93 | 1.11 | 11.4 | 29.3 | 9.12 | Bush. |
| | | Sept., 1934 | .22 | .38 | .12 | .35 | 1.55 | 1.11 | .34 | 14.4 | 23.9 | — | Bush. |
| | | Mar., 1935 | .21 | 1.31 | .53 | 2.21 | .91 | .34 | .98 | 9.8 | 27.8 | 10.10 | Bush. |
| | | June, 1935 | .16 | 1.05 | .76 | 1.33 | .62 | .39 | .43 | 14.3 | 28.3 | 7.04 | Bush. |
| Wolwefontein.... | Uitenhage..... | Sept., 1935 | .12 | .90 | .36 | 1.60 | .29 | .43 | 7.6 | 27.7 | 6.30 | Bush. | |
| | | Dec., 1933 | .13 | 1.10 | .28 | 1.47 | .33 | .55 | .55 | 10.6 | 24.3 | 6.76 | Bush. |
| | | June, 1934 | .13 | .68 | .16 | 1.17 | .50 | .27 | .81 | 8.1 | 39.6 | 5.03 | Bush. |
| | | Nov., 1934 | .22 | .75 | .19 | 1.96 | .39 | .43 | 10.2 | 31.2 | 5.67 | Grass, green, and bush; mostly bush. | |
| | | April, 1935 | .13 | .88 | .39 | 1.69 | .42 | .57 | 8.0 | 8.0 | 32.4 | 5.97 | Bush. |
| | | July, 1935 | .23 | .90 | .73 | 2.70 | .89 | 1.84 | 16.7 | 16.7 | 21.0 | 16.30 | Bush. |
| | | Oct., 1935 | .11 | .87 | .42 | 1.60 | .51 | .56 | 7.5 | 7.5 | 31.2 | 5.84 | Grass, mainly green, and bush; mostly grass. |
| | | Jan., 1934 | .13 | 1.09 | .84 | 2.23 | 1.46 | 1.79 | 13.7 | 13.7 | 24.5 | 11.75 | Bush. |
| | | April, 1934 | .22 | 1.15 | .60 | 2.34 | 2.09 | 2.62 | 14.8 | 14.8 | 22.1 | 13.25 | Bush. |
| Brakhill..... | Uitenhage..... | July, 1934 | .12 | 1.48 | .34 | 1.89 | .25 | .49 | 10.7 | 27.0 | 7.50 | Bush. | |
| | | Sept., 1934 | .13 | 1.14 | .58 | 1.33 | .47 | .46 | 15.9 | 23.5 | 9.70 | Bush. | |
| | | Dec., 1934 | .17 | 1.13 | .56 | 2.48 | 2.29 | 2.48 | 14.4 | 14.4 | 24.6 | 14.25 | Bush. |
| | | May, 1935 | .13 | 1.05 | .51 | 1.45 | .50 | .39 | 10.1 | 10.1 | 27.1 | 7.24 | Bush. |
| | | Aug., 1935 | .16 | .86 | .47 | 1.69 | .58 | .46 | 10.0 | 10.0 | 32.0 | 9.66 | Bush. |

AREA 15 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|--------------------|------------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|---|
| Centerlivers..... | Uitenhage..... | Mar., 1934 | .20 | 1.36 | .52 | 2.54 | 1.57 | 2.29 | 12.8 | 23.3 | 12.85 | Bush. |
| | | June, 1934 | .10 | 1.36 | .43 | 1.36 | .33 | .64 | 9.7 | 22.2 | 7.26 | Bush. |
| | | Sept., 1934 | .18 | 1.80 | .40 | 1.76 | .65 | .93 | 13.4 | 23.9 | 9.00 | Bush. |
| | | Mar., 1935 | — | .90 | .39 | 1.60 | .57 | — | 5.6 | 36.0 | 6.86 | Grass, mainly brown, and bush; mostly bush. |
| | | July, 1935 | .32 | .67 | .22 | 2.83 | .54 | 1.06 | 19.8 | 28.1 | 7.80 | Grass, green, short. |
| | | Oct., 1935 | .23 | .85 | .19 | 1.65 | .39 | .79 | 7.8 | 32.7 | 5.96 | Bush. |
| Brakrivier..... | Jansenville..... | Nov., 1934 | .11 | 1.68 | .36 | .84 | .58 | .25 | 4.5 | 39.1 | 7.64 | Bush. |
| | | Feb., 1935 | .11 | 1.85 | .27 | 1.23 | .62 | .17 | 5.3 | 35.5 | 8.40 | Bush. |
| | | May, 1935 | .14 | 1.49 | .50 | 1.69 | .82 | .52 | 6.7 | 37.0 | 8.66 | Bush. |
| | | Aug., 1935 | .17 | 1.68 | .34 | 2.35 | 1.75 | 1.10 | 10.5 | 26.8 | 11.53 | Bush. |
| Uitkyk..... | Jansenville..... | Dec., 1934 | .19 | 1.12 | .36 | 1.59 | 1.37 | .57 | 9.8 | 35.3 | 9.80 | Bush. |
| | | Mar., 1935 | .11 | .85 | .25 | 1.15 | .44 | .23 | 7.0 | 40.2 | 5.58 | Bush. |
| | | June, 1935 | .23 | 1.31 | .56 | 2.41 | .95 | .60 | 9.6 | 28.9 | 9.52 | Bush. |
| | | Sept., 1935 | .16 | .88 | .30 | 1.52 | 2.01 | 1.48 | 7.9 | 33.5 | 10.15 | Bush. |
| Nuwefontein..... | Jansenville..... | Jan., 1935 | .14 | .95 | .25 | 1.47 | .39 | .39 | 6.3 | 36.6 | 5.43 | Bush. |
| | | April, 1935 | .15 | 1.65 | .47 | 1.15 | .73 | .49 | 6.4 | 34.1 | 8.24 | Bush. |
| | | July, 1935 | .15 | 1.55 | .53 | 1.49 | .46 | .50 | 8.3 | 36.9 | 8.46 | Bush. |
| | | Oct., 1935 | .19 | 1.43 | .58 | 2.12 | 1.02 | 1.25 | 9.1 | 28.5 | 8.86 | Bush. |
| Vogelstruislaagte. | Willowmore... | Nov., 1934 | .066 | .61 | .21 | .81 | .32 | .14 | 5.3 | 46.8 | 3.88 | Bush. |
| | | May, 1935 | .15 | .79 | .17 | 1.40 | .56 | .21 | 6.4 | 40.9 | 5.28 | Bush. |
| | | Aug., 1935 | .13 | 1.36 | .25 | 1.11 | .76 | .57 | 7.9 | 37.9 | 6.78 | Bush. |
| Finchley..... | Willowmore... | Dec., 1934 | .14 | .83 | .38 | 1.47 | 2.47 | .88 | 9.2 | 27.5 | 11.45 | Bush. |
| | | Mar., 1935 | .10 | 1.12 | .51 | 1.10 | 3.96 | 2.82 | 7.0 | 30.7 | 15.83 | Bush. |
| | | June, 1935 | .17 | .56 | .41 | 1.41 | 3.24 | .45 | 10.2 | 29.0 | 12.02 | Bush. |
| | | Sept., 1935 | .14 | .74 | .21 | 1.34 | 1.18 | .69 | 8.9 | 38.0 | 7.26 | Bush. |
| Laughingwaters.. | Willowmore... | Jan., 1935 | .16 | .45 | .24 | 1.22 | 1.77 | .80 | 7.0 | 34.7 | 8.88 | Bush. |
| | | April, 1935 | .19 | .52 | .33 | .69 | 1.65 | .38 | 7.5 | 39.6 | 6.96 | Bush. |
| | | July, 1935 | .18 | .59 | .23 | 1.24 | .88 | .58 | 7.2 | 43.2 | 5.63 | Bush. |
| | | Oct., 1935 | .17 | .75 | .30 | 1.21 | .80 | .57 | 8.0 | 38.5 | 6.12 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 15 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|-------------------|------------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|---------------------------------------|------------------------------|
| Koenillaagte..... | Willowmore.... | Nov., 1934 | .14 | 1.04 | .55 | 1.69 | 3.03 | 2.05 | 10.2 | 22.3 | 15.10 | Bush. | |
| | | Feb., 1935 | .14 | .69 | .30 | 1.76 | .78 | 34.4 | 6.7 | 34.4 | 8.63 | Bush. | |
| | | May, 1935 | .11 | .75 | .29 | 1.12 | 1.84 | 40.5 | 5.8 | 11.7 | 28.1 | 13.84 | Bush. |
| | | Aug., 1935 | .20 | 1.01 | .58 | 2.35 | 3.06 | 3.06 | 15 | 12.4 | 24.4 | 15.22 | Bush. |
| Thorndale..... | Willowmore.... | Dec., 1934 | .20 | .98 | .37 | 2.97 | 3.06 | .15 | 9.5 | 34.4 | 8.16 | Bush. | |
| | | Mar., 1935 | .098 | 1.07 | .56 | 1.33 | 1.24 | .60 | 7.9 | 36.7 | 8.02 | Bush. | |
| | | June, 1935 | .12 | 1.08 | .40 | 1.08 | 2.18 | .73 | 9.3 | 28.3 | 14.72 | Bush. | |
| | | Sept., 1935 | .15 | 1.72 | .72 | 1.76 | 2.30 | 8.2 | 31.4 | 12.17 | 11.65 | Bush. | |
| Suidwaikraal.... | Willowmore.... | Jan., 1935 | .12 | .93 | .46 | 1.81 | 2.46 | 2.30 | 6.3 | 38.3 | 5.20 | Bush. | |
| | | April, 1935 | .13 | .61 | .23 | 1.26 | .39 | .25 | 8.4 | 37.1 | 8.25 | Bush. | |
| | | July, 1935 | .15 | .83 | .32 | 1.45 | 1.34 | 1.15 | 8.5 | 32.8 | 13.35 | Bush. | |
| | | Oct., 1935 | .14 | 1.12 | .25 | 2.41 | 2.10 | 1.72 | 13.1 | 27.5 | 11.65 | Bush. | |
| Balieskraal..... | Aberdeen..... | Nov., 1934 | .19 | 1.11 | .50 | 2.40 | 1.70 | 1.08 | 10.7 | 33.3 | 8.90 | Bush. | |
| | | Feb., 1935 | .25 | 1.12 | .30 | 1.88 | 1.14 | .54 | 8.7 | 38.5 | 6.40 | Bush. | |
| | | July, 1935 | .20 | .79 | .29 | 1.70 | .72 | 2.70 | 8.5 | 30.4 | 12.25 | Bush. | |
| | | Oct., 1935 | .19 | .94 | .38 | 2.70 | 2.17 | 1.37 | 12.5 | 30.0 | 13.34 | Bush. | |
| Kraairivier..... | Aberdeen..... | Dec., 1934 | .26 | .89 | .46 | 3.17 | 2.18 | 2.07 | 11.0 | 34.6 | 11.80 | Bush. | |
| | | Mar., 1935 | .23 | 1.01 | .55 | 2.48 | 1.73 | 3.85 | 18.2 | 18.5 | 22.20 | Bush. | |
| | | Sept., 1935 | .29 | .79 | .60 | 5.78 | 3.04 | 2.96 | 13.1 | 25.6 | 14.80 | Bush. | |
| Bassonskraal.... | Aberdeen..... | Jan., 1935 | .18 | .84 | .56 | 1.93 | 3.04 | 3.50 | 15.8 | 23.9 | 17.90 | Bush. | |
| | | April, 1935 | .17 | 1.24 | .59 | 1.52 | 1.82 | 4.01 | 10.1 | 30.6 | 10.62 | Bush. | |
| | | Aug., 1935 | .30 | 1.02 | .68 | 2.70 | 4.01 | 3.50 | 10.5 | 29.7 | 14.93 | Bush. | |
| | | Nov., 1935 | .14 | .74 | .41 | 2.35 | 2.96 | .70 | 5.2 | 42.2 | 3.10 | 3.10 | Grass and bush; mostly bush. |
| Rodeblom..... | Graaff-Reinet... | Nov., 1934 | .13 | .42 | .12 | .96 | .25 | .20 | 6.2 | 37.8 | 3.30 | Grass, mainly green, and bush. | |
| | | Feb., 1935 | .16 | .41 | .13 | 1.23 | .26 | .15 | 5.2 | 39.5 | 2.42 | Grass, brown, and bush. | |
| | | May, 1935 | .12 | .37 | .10 | .84 | .25 | 1.34 | 7.2 | 29.8 | 5.54 | Bush. | |
| | | Aug., 1935 | .12 | .80 | .37 | 1.34 | .70 | 1.20 | 8.1 | 33.5 | 7.31 | Grass, brown, and bush. | |
| Dalham..... | Graaff-Reinet... | Dec., 1934 | .17 | .61 | .37 | 1.76 | 1.27 | .68 | 11.7 | 32.1 | 6.90 | Grass, green, and bush; mostly grass. | |
| | | Mar., 1935 | .093 | .67 | .29 | 2.70 | .54 | .54 | 9.2 | 36.7 | 4.88 | Grass and bush. | |
| | | June, 1935 | .14 | .59 | .25 | 1.66 | .62 | .72 | 8.8 | 34.2 | 5.71 | Grass, and bush. | |
| Riversdale..... | Graaff-Reinet... | Sept., 1935 | .16 | .74 | .24 | 1.51 | .59 | .22 | 9.3 | 32.4 | 9.20 | Grass, brown, and bush. | |
| | | Jan., 1935 | .18 | .74 | .51 | 2.78 | .98 | .81 | 11.2 | 27.9 | 8.36 | Grass, mainly green, and bush. | |
| | | April, 1935 | .25 | 1.14 | .38 | 2.82 | .50 | .25 | 9.7 | 30.2 | 7.22 | Bush. | |
| | | July, 1935 | .16 | 1.25 | .45 | 1.40 | .68 | .22 | 7.5 | 34.8 | 4.58 | Grass, mainly green, and bush. | |
| Oct., 1935 | .19 | .74 | .31 | 1.07 | .33 | | | | | | | | |

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | | |
|-------------------|---------------|-------------|------|------|-----|------|-------|------|----------------|--------------|--------------|--------------------------------|---------------------------------------|---------------------------------------|
| Golden Valley.... | Tarka..... | Dec., 1933 | .18 | .20 | .11 | 1.47 | .05 | .34 | 10.0 | 36.6 | 3.36 | Grass, green. | | |
| | | Mar., 1934 | .16 | .37 | .15 | .79 | trace | .19 | 5.4 | 35.6 | 2.46 | Grass. | | |
| | | June, 1934 | .11 | .29 | .08 | .49 | .01 | .09 | .09 | 4.6 | 36.7 | 1.97 | Grass, mainly brown, and bush. | |
| | | Sept., 1934 | .09 | .21 | .04 | .26 | trace | .07 | .07 | 3.7 | 36.3 | 1.25 | mostly grass. | |
| | | Dec., 1934 | .14 | .33 | .14 | 1.08 | .04 | .18 | .18 | 6.2 | 33.5 | 2.53 | Grass, mainly green, and bush; | |
| | | Mar., 1935 | .11 | .24 | .07 | .62 | .01 | .16 | .16 | 5.2 | 28.8 | 2.65 | mostly grass. | |
| | | June, 1935 | .11 | .28 | .10 | .60 | .02 | .14 | .14 | 6.3 | 38.4 | 2.45 | Grass, mainly green, short. | |
| | | Sept., 1935 | .14 | .46 | .10 | .82 | .03 | .14 | .14 | 7.4 | 29.1 | 3.60 | Grass, short, and bush; mostly grass. | |
| | | | | | | | | | | | | | | Grass, mainly green, short, and bush. |
| | | | | | | | | | | | | | | Grass, mainly green, and bush; |
| Morning Sun..... | Tarka..... | Jan., 1934 | .23 | .34 | .18 | 2.16 | .03 | .34 | 9.2 | 37.4 | 4.80 | Grass, mainly green, and bush; | | |
| | | April, 1934 | .19 | .89 | .50 | 2.95 | .07 | .60 | .60 | 10.6 | 28.7 | 8.38 | mostly grass. | |
| | | July, 1934 | .15 | .75 | .17 | .85 | .01 | .12 | .12 | 5.3 | 34.8 | 3.40 | Grass, mainly brown, and bush. | |
| | | | | | | | | | | | | | Grass, brown, leafy, and bush; | |
| | | | | | | | | | | | | | mostly grass. | |
| | | Oct., 1934 | .068 | .43 | .10 | .43 | .02 | .03 | .03 | 3.8 | 36.6 | 1.82 | Grass, brown, leafy, and bush. | |
| | | Jan., 1935 | .12 | .42 | .12 | 1.42 | .04 | .26 | .26 | 5.3 | 35.6 | 3.08 | Grass, mainly brown, and bush; | |
| | | April, 1935 | .16 | .47 | .18 | 1.47 | .14 | .24 | .24 | 8.9 | 31.2 | 3.85 | mostly grass. | |
| | | | | | | | | | | | | | Grass, mainly green, short, and bush. | |
| | | | | | | | | | | | | | Grass, mainly brown, short, and bush. | |
| Middelkraal..... | Tarka..... | Nov., 1932 | .14 | .74 | .22 | 1.39 | .05 | .27 | 9.6 | 34.0 | 5.56 | Bush. | | |
| | | Feb., 1934 | .27 | .38 | .15 | 1.52 | .04 | .18 | .18 | 5.7 | 35.4 | 3.72 | Grass, mainly green, and bush; | |
| | | | | | | | | | | | | | mostly grass. | |
| | | May, 1934 | .25 | .48 | .20 | 1.31 | .04 | .15 | .15 | 6.3 | 31.5 | 3.97 | Grass, mainly brown, and bush. | |
| | | Aug., 1934 | .13 | .88 | .27 | 1.49 | .04 | .16 | .16 | 7.9 | 35.3 | 5.19 | Bush. | |
| | | Nov., 1934 | .087 | .28 | .08 | .60 | trace | .07 | .07 | 3.9 | 37.9 | 1.84 | Grass, mainly brown, and bush. | |
| | | Feb., 1935 | .15 | .30 | .09 | 1.45 | trace | .17 | .17 | 7.5 | 36.6 | 3.02 | Grass, mainly green, short, and bush; | |
| | | May, 1935 | .13 | .73 | .18 | 1.55 | .11 | .22 | .22 | 7.8 | 37.9 | 4.36 | mostly grass. | |
| | | | | | | | | | | | | | Grass, mainly green, and bush; | |
| | | | | | | | | | | | | | mostly bush. | |
| Rustenburg..... | Pearston..... | Dec., 1934 | .21 | 1.15 | .51 | 2.94 | 3.07 | 3.18 | 11.2 | 27.6 | 15.22 | Bush. | | |
| | | Mar., 1935 | .14 | .76 | .41 | 1.75 | 2.48 | 2.37 | 10.8 | 31.3 | 11.67 | Bush. | | |
| | | June, 1935 | .26 | 1.06 | .64 | 2.09 | 3.05 | 2.76 | 15.9 | 19.5 | 14.18 | Bush. | | |
| | | Sept., 1935 | .30 | .76 | .75 | 2.56 | 4.12 | 4.11 | 15.0 | 21.3 | 18.18 | Bush. | | |
| | | | | | | | | | | | | | | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 15 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|--------------------------|---------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|--|
| Allegelaten (Bradley) | Pearston..... | Jan., 1935 | .12 | .92 | .65 | 2.19 | 3.20 | 3.80 | 9.5 | 31.3 | 15.54 | Bush. |
| | | April, 1935 | .16 | 1.07 | .60 | 2.11 | 3.12 | 1.64 | 11.2 | 25.5 | 14.95 | Bush. |
| | | Aug., 1935 | .18 | .81 | .24 | 1.13 | .68 | .46 | 8.4 | 37.4 | 5.72 | Bush. |
| | | Sept., 1935 | .29 | 1.46 | .62 | 2.39 | 6.32 | 9.02 | 9.5 | 18.8 | 27.20 | Bush. |
| Allegelaten (Momborg) | Pearston..... | Feb., 1935 | .12 | .75 | .16 | 1.05 | .87 | .46 | 7.9 | 43.8 | 5.66 | Bush. |
| | | May, 1935 | .22 | .82 | .38 | 2.38 | 3.13 | 1.16 | 10.0 | 37.2 | 13.98 | Bush. |
| | | July, 1935 | .25 | .92 | .43 | 2.62 | 3.07 | 2.66 | 13.2 | 27.0 | 14.46 | Bush. |
| Plankfontein..... | Cradock..... | Nov., 1933 | .11 | 1.22 | .18 | 1.20 | .43 | .23 | 9.6 | 31.5 | 6.10 | Bush. |
| | | Feb., 1934 | .18 | 1.08 | .25 | 1.49 | .41 | .41 | 9.1 | 29.0 | 6.03 | Grass, green, short, and bush; mostly bush. |
| | | May, 1934 | .15 | .51 | .13 | 1.25 | .63 | — | 6.1 | 44.7 | 4.52 | Bush. |
| | | Aug., 1934 | .12 | .68 | — | 1.26 | .28 | .15 | 5.4 | 41.4 | 4.56 | Bush. |
| | | Nov., 1934 | .084 | .69 | .16 | 1.02 | .19 | .16 | 6.1 | 48.3 | 4.00 | Bush. |
| | | Feb., 1935 | .13 | .94 | .11 | 1.15 | .10 | .11 | 6.7 | 40.7 | 4.35 | Grass, mainly green, short, and bush; mostly bush. |
| Waalraal..... | Cradock..... | May, 1935 | .13 | .72 | .17 | 1.46 | .16 | .30 | 7.1 | 41.5 | 4.52 | Bush. |
| | | Aug., 1935 | .13 | 1.29 | .20 | 1.25 | .11 | .25 | 7.9 | 34.5 | 6.02 | Bush. |
| | | Dec., 1933 | .13 | 1.14 | .21 | 1.23 | .53 | .45 | 11.5 | — | 6.76 | Bush. |
| | | Mar., 1934 | .27 | .77 | .27 | 2.07 | 1.58 | 1.07 | 14.5 | 30.0 | 9.58 | Grass, green, short, and bush. |
| | | June, 1934 | .17 | .57 | .25 | 1.38 | 1.04 | .40 | 8.6 | 35.9 | 5.36 | Grass, mainly green, and bush; mostly grass. |
| | | Sept., 1934 | .096 | .28 | .10 | .76 | .04 | .30 | 6.4 | 34.2 | 1.91 | Grass, mainly brown, leafy. |
| Zuurfontein..... | Cradock..... | Dec., 1934 | .19 | .80 | .22 | 1.65 | .77 | .53 | 13.6 | 30.1 | 6.34 | Bush. |
| | | Mar., 1935 | .18 | .37 | .25 | 1.34 | .69 | .30 | 8.9 | 34.3 | 4.69 | Grass, short. |
| | | June, 1935 | .20 | 1.08 | .38 | 2.00 | 1.90 | .71 | 11.6 | 28.1 | 9.96 | Bush. |
| | | Sept., 1935 | .16 | 1.40 | .70 | 1.93 | .71 | .75 | 9.5 | 34.2 | 9.74 | Bush. |
| | | Jan., 1934 | .38 | 1.02 | .61 | 5.73 | .89 | 1.41 | 18.1 | 21.2 | 14.90 | Bush. |
| | | April, 1934 | .17 | .61 | .21 | 1.46 | .02 | .18 | 6.2 | 38.7 | 4.58 | Grass, short, and bush. |
| Zuurfontein..... | Cradock..... | July, 1934 | .12 | .46 | .14 | .88 | .02 | .09 | 6.2 | 37.8 | 2.97 | Grass, brown, short, and bush. |
| | | Oct., 1934 | .072 | .42 | .11 | .64 | .06 | .06 | 4.3 | 45.7 | 2.24 | Bush. |
| | | Jan., 1935 | — | .66 | .10 | .98 | .10 | — | 5.6 | 42.8 | 3.70 | Bush. |
| | | April, 1935 | .14 | .91 | .31 | 1.83 | .06 | .20 | 8.3 | 36.4 | 5.54 | Bush. |
| | | July, 1935 | .14 | .51 | .16 | 1.18 | .03 | .10 | 6.6 | 46.6 | 3.63 | Bush. |
| | | Oct., 1935 | .13 | .55 | .16 | 1.17 | .04 | .09 | 5.7 | 37.3 | 3.32 | Bush. |

AREA 16.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Proteïn. | Crude Fibre. | Solu-ble Ash. | Description of Sample. | |
|-----------------------|----------------|-------------|------|------|-----|------|-------|------|----------------|--------------|---------------|---|--|
| Griquatown Town Lands | Hay..... | Feb., 1934 | .15 | .47 | .15 | 1.53 | .03 | .29 | 7.8 | 35.4 | 3.46 | Grass, mainly green. | |
| | | May, 1934 | .12 | 2.01 | .43 | 1.08 | .02 | .14 | 9.8 | 31.2 | 7.15 | Grass, mainly brown, and bush; mostly bush. | |
| | | Aug., 1934 | .06 | 1.55 | .32 | 1.08 | .01 | .10 | .10 | 6.7 | 33.9 | 5.86 | Bush. |
| | | Nov., 1934 | .14 | .81 | .28 | 2.13 | .03 | .44 | .11.7 | 11.7 | 35.0 | 5.46 | Grass, green, and bush; mostly grass. |
| | | Feb., 1935 | .10 | .65 | .13 | 1.07 | trace | .21 | .21 | 10.3 | 35.7 | 3.20 | Grass and bush; mostly bush. |
| | | May, 1935 | .15 | .87 | .20 | 1.69 | trace | .29 | .29 | 6.0 | 29.7 | 5.32 | Grass and bush; mostly bush. |
| Sept., 1935 | .073 | 1.42 | .22 | 1.03 | .02 | .09 | .09 | 6.9 | 35.5 | 5.97 | Bush. | | |
| Roovlei..... | Hay..... | Mar., 1934 | .12 | .49 | .27 | 1.42 | .02 | .24 | 8.1 | 36.1 | 4.06 | Grass, mainly green. | |
| | | June, 1934 | .14 | .92 | .24 | 1.42 | .02 | .25 | 9.5 | 28.1 | 5.52 | Grass, mainly brown, and bush. | |
| | | Sept., 1934 | .09 | 1.33 | .29 | 1.11 | .01 | .13 | .13 | 6.6 | 35.4 | 5.72 | Bush. |
| | | Dec., 1934 | .12 | 1.28 | .18 | 1.72 | .05 | .34 | .34 | 9.8 | 36.4 | 5.98 | Grass, green, short, and bush. |
| | | Mar., 1935 | .13 | .50 | .09 | 1.04 | trace | .45 | .45 | 6.1 | 36.7 | 3.52 | Grass and bush. |
| | | June, 1935 | .087 | .71 | .15 | 1.24 | .01 | .14 | .14 | 7.5 | 31.5 | 3.71 | Grass, brown, and bush. |
| Kalkfontein..... | Hay..... | April, 1934 | .18 | .54 | .19 | 1.14 | .05 | .18 | 5.4 | 32.8 | 3.05 | Grass and bush; mostly grass. | |
| | | July, 1934 | .096 | .84 | .18 | 1.18 | .01 | .22 | 7.7 | 31.9 | 4.29 | Grass, mainly brown, and bush; mostly bush. | |
| | | Oct., 1934 | .12 | .40 | .19 | 1.48 | .30 | .53 | .53 | 10.3 | 32.7 | 5.00 | Grass, green, and bush; mostly bush. |
| | | Jan., 1935 | .08 | 1.05 | .16 | 1.10 | .03 | .18 | .18 | 6.7 | 36.2 | 4.16 | Grass, mainly brown, and bush. |
| | | April, 1935 | .12 | .74 | .17 | 1.65 | trace | .19 | .19 | 9.3 | 30.9 | 4.53 | Grass, mainly green, and bush. |
| | | April, 1934 | .084 | .56 | .15 | 1.30 | trace | .12 | .12 | 6.9 | 39.6 | 4.08 | Grass, mainly green, and bush; mostly grass. |
| Selfdrink..... | Hay..... | July, 1934 | .073 | .91 | .25 | 1.00 | .05 | .24 | 7.4 | 29.9 | 4.03 | Grass, mainly brown, and bush. | |
| | | June, 1935 | .08 | .84 | .22 | 1.10 | trace | .21 | 7.5 | 31.4 | 3.98 | Bush. | |
| | | Sept., 1935 | .063 | 1.44 | .24 | .90 | .08 | .01 | .01 | 7.9 | 30.9 | 5.46 | Bush. |
| | | Feb., 1934 | .15 | 1.36 | .40 | 1.89 | .03 | .79 | .79 | 11.5 | 31.8 | 7.42 | Grass and bush. |
| | | June, 1934 | .12 | 1.27 | .31 | 1.30 | .02 | .33 | .33 | 11.0 | 35.2 | 5.52 | Bush. |
| | | Sept., 1934 | .05 | .38 | .18 | .86 | .02 | .12 | .12 | 4.8 | 39.3 | 2.36 | Grass, brown, and bush; mostly grass. |
| Soville..... | Hay..... | April, 1935 | .13 | .58 | .18 | 1.53 | .03 | .32 | 7.1 | 27.4 | 3.70 | Grass and bush. | |
| | | May, 1935 | .11 | 1.13 | .31 | 1.66 | trace | .25 | 9.0 | 35.8 | 6.14 | Bush. | |
| | | Feb., 1934 | .23 | .39 | .29 | 3.13 | .15 | .64 | .64 | 12.8 | 34.3 | 7.55 | Grass, mainly green. |
| | | May, 1934 | .18 | .76 | .38 | 1.83 | 1.79 | 1.21 | 1.21 | 9.8 | 30.2 | 9.02 | Grass, mainly brown, and bush. |
| | | Nov., 1934 | .15 | .39 | .18 | 1.71 | .21 | .36 | .36 | 8.3 | 33.1 | 4.23 | Grass, mainly green. |
| | | Feb., 1935 | .13 | .54 | .13 | .97 | .07 | .11 | .11 | 4.7 | 42.7 | 3.25 | Grass, brown, and bush; mostly bush. |
| Donkerhoek..... | Britstown..... | May, 1935 | .19 | .55 | .24 | 1.72 | .22 | .26 | 7.7 | 37.6 | 4.52 | Grass, mainly brown, and bush. | |
| | | Aug., 1935 | .18 | 1.41 | .31 | 1.77 | 1.21 | .49 | .49 | 9.6 | 29.9 | 9.54 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 16 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|------------------|---------------|-------------|------|------|-----|------|-------|-------|----------------|---------------|--------------|--|
| Vrolijkspan..... | Bristown..... | Mar., 1934 | .25 | .97 | .43 | 2.13 | 2.03 | 1.25 | 14.1 | 26.5 | 11.25 | Grass, green, and bush. |
| | | June, 1934 | .18 | 1.51 | .61 | 1.42 | 2.06 | 2.02 | 14.5 | 25.3 | 14.25 | Bush. |
| | | Dec., 1934 | .21 | 1.15 | .45 | 2.48 | 3.20 | 2.41 | 14.4 | 25.9 | 17.40 | Bush. |
| | | Mar., 1935 | .17 | 1.16 | .56 | 2.16 | 1.85 | 1.89 | 12.1 | 26.7 | 12.43 | Bush. |
| | | June, 1935 | .13 | 1.13 | .52 | 2.09 | 3.11 | 1.13 | 11.5 | 30.9 | 14.48 | Bush. |
| | | Sept., 1935 | .15 | 1.59 | .44 | 1.66 | .28 | .18 | 9.4 | 33.2 | 8.10 | Bush. |
| | | April, 1934 | .19 | 1.32 | .55 | 2.45 | 1.38 | 1.56 | 11.8 | 27.4 | 11.70 | Grass, mainly green, and bush ; mostly bush. |
| | | Sept., 1934 | .12 | 1.68 | .63 | 2.19 | 2.80 | 1.80 | 10.7 | 23.7 | 16.30 | Bush. |
| | | Jan., 1935 | .17 | .81 | .30 | 2.26 | 1.37 | 1.07 | 9.7 | 37.9 | 10.25 | Bush. |
| Smousdam..... | Hopetown..... | April, 1935 | .15 | 1.47 | .84 | 2.40 | 3.85 | 1.86 | 14.8 | 24.1 | 19.05 | Bush. |
| | | May, 1935 | .20 | .74 | .26 | 2.15 | .11 | .54 | 11.3 | 33.3 | 5.78 | Bush. |
| | | June, 1935 | .16 | .84 | .29 | 2.10 | trace | .26 | 10.3 | 26.7 | 6.24 | Bush. |
| | | Sept., 1935 | .13 | 1.32 | .32 | 1.12 | .03 | .32 | 7.6 | 42.8 | 5.82 | Bush. |
| Kareeboomput... | Prieska..... | May, 1934 | .048 | — | .20 | 1.08 | .02 | .27 | 4.3 | 39.0 | 2.89 | Grass, mainly brown. |
| | | Nov., 1934 | .20 | .39 | .14 | 1.72 | trace | .14 | 7.7 | 35.0 | 3.58 | Grass, mainly green. |
| | | Mar., 1935 | .15 | .39 | .13 | 1.73 | .04 | .36 | 6.6 | 34.5 | 3.81 | Grass, mainly green. |
| | | June, 1935 | .077 | .28 | .11 | .84 | .01 | .14 | 4.7 | 40.8 | 2.28 | Grass, mainly brown. |
| Blaauwput..... | Prieska..... | Sept., 1935 | .085 | .41 | .17 | 1.19 | .03 | .24 | 6.0 | 36.7 | 3.07 | Grass, mainly brown. |
| | | Mar., 1934 | .18 | .39 | .20 | 1.98 | .05 | .35 | 9.6 | 32.4 | 4.09 | Grass, green. |
| | | June, 1934 | .078 | .28 | .10 | .52 | .01 | .06 | 2.8 | 42.0 | 1.83 | Grass, brown, long. |
| | | Dec., 1934 | .05 | .24 | .08 | .24 | trace | Trace | 2.9 | 40.3 | 1.49 | Grass, mainly brown. |
| | | April, 1935 | .13 | .50 | .16 | 1.31 | trace | .15 | 8.7 | 32.6 | 3.41 | Grass, mainly green. |
| | | Aug., 1935 | .15 | .68 | .24 | 2.70 | .19 | 1.22 | 6.0 | 28.6 | 7.50 | Grass, brown, and shrub. |
| Marydale Lands | Prieska..... | April, 1934 | .17 | .44 | .16 | 1.46 | .04 | .22 | 7.2 | 35.7 | 3.93 | Grass, mainly green. |
| | | July, 1934 | — | .37 | .14 | .93 | .03 | .08 | 3.3 | 36.9 | 2.62 | Grass, brown, long. |
| | | Oct., 1934 | .082 | .37 | .12 | .51 | .01 | .04 | 2.8 | 37.7 | 1.76 | Grass, brown, long. |
| | | Jan., 1935 | .11 | .26 | .12 | 1.17 | .02 | .24 | 5.3 | 40.4 | 2.46 | Grass, mainly green, long. |
| | | May, 1935 | .087 | .35 | .12 | .89 | trace | .13 | 5.9 | 37.7 | 2.34 | Grass, mainly brown. |
| | | July, 1935 | .12 | .39 | .13 | 1.15 | .03 | .19 | 5.6 | 40.1 | 2.76 | Grass, brown. |
| Oct., 1935 | .076 | .53 | .14 | 1.01 | .04 | .15 | 4.7 | 39.2 | 2.88 | Grass, brown. | | |

AREA 16 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|-------------------|-----------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|---|
| Ramskop..... | Calvinia..... | Nov., 1934 | .15 | .90 | .30 | 1.16 | 1.02 | .60 | 7.7 | 36.1 | 7.04 | Bush. |
| | | Feb., 1935 | .094 | 1.30 | .65 | 1.80 | 2.97 | .96 | 9.1 | 29.0 | 14.10 | Bush. |
| | | May, 1935 | .15 | 1.07 | .39 | 1.22 | 2.56 | 1.19 | 8.8 | 33.3 | 12.06 | Bush. |
| | | Aug., 1935 | .17 | 1.33 | .68 | 1.50 | 2.42 | 1.47 | 7.8 | 29.7 | 12.28 | Bush. |
| Wilgenbos..... | Calvinia..... | Jan., 1935 | .13 | .95 | .53 | 1.83 | 2.44 | 2.49 | 8.7 | 31.0 | 14.20 | Bush. |
| | | Mar., 1935 | .14 | .97 | .40 | 1.23 | .68 | 8.9 | 43.5 | 7.64 | Bush. | |
| | | June, 1935 | .14 | 1.15 | .44 | 1.39 | 1.36 | 1.05 | 11.9 | 31.4 | 9.06 | Bush. |
| | | Sept., 1935 | .27 | .68 | .34 | 2.37 | 1.12 | 1.12 | 10.4 | 24.3 | 16.50 | Bush. |
| Wetveerde..... | Calvinia..... | Feb., 1935 | .14 | 1.23 | .69 | 1.74 | 3.98 | .40 | 8.7 | 24.6 | 17.35 | Bush. |
| | | April, 1935 | .10 | 1.29 | .57 | 1.50 | 2.32 | 9.2 | 23.8 | 21.44 | Bush. | |
| | | July, 1935 | .20 | 1.30 | .70 | 2.29 | 2.66 | 2.30 | 11.9 | 30.9 | 15.47 | Bush. |
| | | Oct., 1935 | .14 | .80 | .42 | 1.79 | 2.53 | 1.60 | 7.5 | 34.7 | 12.10 | Bush. |
| Die Hoop..... | Calvinia..... | Nov., 1934 | .16 | 1.25 | .36 | 2.23 | .30 | .51 | 10.4 | 26.2 | 8.20 | Bush. |
| | | Feb., 1935 | .11 | .48 | .16 | .93 | .14 | .20 | 5.1 | 36.3 | 2.81 | Grass, brown, and bush; mostly bush. |
| | | May, 1935 | .13 | 1.13 | .31 | .84 | .08 | .23 | 9.6 | 32.8 | 6.21 | Bush. |
| Kuilwater..... | Calvinia..... | Aug., 1935 | .15 | .85 | .42 | 1.19 | .55 | .64 | 10.6 | 24.8 | 5.56 | Bush. |
| | | Dec., 1934 | .10 | .59 | .21 | 1.06 | .83 | .38 | 7.5 | 36.4 | 4.65 | Grass, and bush. |
| | | Mar., 1935 | .12 | .51 | .22 | 1.05 | .34 | .38 | 6.9 | 43.8 | 3.65 | Grass, mainly green, and bush; mostly bush. |
| | | June, 1935 | .11 | .70 | .21 | 1.07 | .28 | .24 | 7.3 | 34.6 | 4.42 | Bush. |
| Leeuwfontein..... | Calvinia..... | Sept., 1935 | .28 | 1.00 | .30 | 2.08 | .81 | .91 | 12.8 | 27.5 | 8.27 | Bush. |
| | | Jan., 1935 | .22 | .72 | .43 | 1.79 | 1.35 | 1.73 | 10.5 | 30.5 | 8.00 | Grass, mainly green, and bush; mostly bush. |
| | | April, 1935 | .12 | .75 | .21 | 1.26 | .64 | .33 | 6.3 | 40.3 | 5.66 | Bush. |
| | | July, 1935 | .14 | 1.35 | .53 | 1.19 | .92 | .53 | 8.2 | 33.9 | 8.36 | Bush. |
| Dikdoorns..... | Calvinia..... | Oct., 1935 | .095 | .82 | .43 | 1.03 | .83 | .37 | 4.8 | 41.3 | 6.24 | Bush. |
| | | Dec., 1934 | .13 | .82 | .21 | 1.78 | .53 | .38 | 7.5 | 41.9 | 6.50 | Bush. |
| | | Mar., 1935 | .19 | 2.05 | .38 | 1.94 | .32 | .46 | 11.5 | 36.7 | 9.54 | Bush. |
| | | Sept., 1935 | .10 | 1.66 | .33 | .92 | .66 | .27 | 8.1 | 35.0 | 9.08 | Bush. |
| Gansfontein..... | Fraserburg..... | Oct., 1934 | .12 | 1.10 | .30 | 1.10 | 1.01 | .36 | 8.3 | 30.6 | 7.30 | Bush. |
| | | Feb., 1935 | .16 | .81 | .25 | 1.55 | .54 | .29 | 6.7 | 36.4 | 6.14 | Bush. |
| | | May, 1935 | .18 | .97 | .36 | 2.34 | 1.37 | .98 | 8.4 | 34.5 | 10.50 | Bush. |
| | | Oct., 1935 | .18 | .97 | .39 | 2.06 | .70 | .70 | 6.4 | 34.0 | 9.84 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 16 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|---------------------|-----------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|---|------------------------------|
| Goedverwachting. | Fraserburg..... | Dec., 1934 | .11 | 1.06 | .19 | 1.89 | 1.70 | .79 | 7.1 | 29.3 | 10.34 | Grass, mainly green, short, and bush. | |
| | | Mar., 1935 | .22 | .63 | .24 | 1.74 | .26 | .81 | 8.1 | 33.6 | 4.86 | Bush. | |
| | | June, 1935 | .12 | 1.03 | .37 | 1.66 | .64 | 1.36 | .64 | 10.5 | 30.5 | 9.42 | Bush. |
| | | July, 1935 | .14 | 1.03 | .32 | 2.21 | .68 | 1.40 | .68 | 11.2 | 35.2 | 10.55 | Bush. |
| Quaggafontein.... | Fraserburg..... | Jan., 1935 | .18 | .97 | .31 | 2.10 | .69 | .52 | 8.5 | 32.6 | 7.51 | Bush. | |
| | | April, 1935 | .17 | .92 | .25 | 1.98 | .39 | .68 | .39 | 7.7 | 33.6 | 6.62 | Bush. |
| | | Sept., 1935 | .17 | .91 | .29 | 1.98 | .45 | .91 | .45 | 8.6 | 31.9 | 7.96 | Bush. |
| Leeuwkraal..... | Fraserburg..... | Oct., 1934 | .13 | 1.08 | .37 | 1.52 | 1.01 | .75 | 9.6 | 30.6 | 8.14 | Bush. | |
| | | Jan., 1935 | .10 | 1.02 | .24 | 1.26 | .62 | 1.36 | .62 | 6.5 | 35.2 | 8.60 | Bush. |
| Ratelfontein..... | Fraserburg..... | Nov., 1934 | .07 | .58 | .17 | .84 | .40 | .20 | 6.1 | 35.8 | 4.06 | Bush. | |
| | | Mar., 1935 | .20 | 1.15 | .37 | 1.86 | .66 | .66 | .45 | 10.9 | 40.5 | 7.50 | Bush. |
| | | June, 1935 | .20 | 1.18 | .29 | 1.58 | .29 | .29 | .41 | 12.1 | 37.0 | 6.68 | Bush. |
| | | July, 1935 | .19 | .96 | .28 | 1.63 | .42 | .42 | .50 | 9.5 | 34.9 | 6.70 | Bush. |
| Vliekraal..... | Fraserburg..... | Dec., 1934 | .089 | .73 | .19 | .99 | .46 | .17 | 6.4 | 38.3 | 4.90 | Bush. | |
| | | Feb., 1935 | .15 | .73 | .14 | 1.21 | .28 | .15 | 5.8 | 44.3 | 4.71 | Bush. | |
| | | April, 1935 | .14 | .74 | .30 | 1.51 | .50 | .77 | .29 | 7.7 | 29.7 | 7.96 | Bush. |
| | | Aug., 1935 | .18 | .65 | .31 | 1.90 | .08 | 1.53 | .08 | 7.5 | 37.9 | 8.75 | Bush. |
| | | Sept., 1935 | .17 | .98 | .30 | 2.05 | 1.12 | 2.21 | 1.12 | 10.1 | 31.1 | 12.33 | Bush. |
| Lower Pampoenpogort | Victoria West.. | Oct., 1934 | .15 | .57 | .40 | 1.59 | 3.47 | 1.79 | 7.8 | 29.1 | 12.70 | Bush. | |
| | | Jan., 1935 | .11 | .92 | .30 | 1.55 | .36 | .75 | .81 | 8.1 | 36.9 | 5.76 | Grass and bush; mostly bush. |
| | | April, 1935 | .18 | 1.19 | .47 | 2.10 | .48 | .37 | 10.3 | 27.8 | 7.63 | Bush. | |
| | | July, 1935 | .20 | .91 | .27 | 1.48 | .50 | .45 | .45 | 12.1 | 30.3 | 6.26 | Bush. |
| Marthasput..... | Victoria West.. | Oct., 1935 | — | .93 | .53 | 1.71 | .84 | — | 7.4 | 33.4 | 7.08 | Grass, brown, and bush. | |
| | | Nov., 1934 | .14 | .96 | .26 | 1.84 | .55 | .31 | 10.1 | 32.3 | 6.60 | Bush. | |
| | | Feb., 1935 | .13 | .80 | .22 | 1.26 | .31 | .24 | 6.0 | 38.0 | 5.02 | Grass, mainly brown, and bush; mostly bush. | |
| | | May, 1935 | .16 | .80 | .17 | 1.44 | .32 | .15 | 8.2 | 33.2 | 5.03 | Bush. | |
| Aug., 1935 | .16 | 1.01 | .24 | 1.36 | .56 | .46 | 10.7 | 33.2 | 5.84 | Bush. | | | |

AREA 16 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Pro-tein. | Crude Fibre. | Solu-ble Ash. | Description of Sample. | |
|--------------------|-----------------|-------------|------|------|-----|------|------|------|-----------------|--------------|---------------|--|---|
| Beyersfontein..... | Victoria West.. | Dec., 1934 | .18 | .68 | .40 | 2.53 | .68 | .71 | 10.2 | 38.0 | 7.83 | Grass, brown, and bush; mostly bush. | |
| | | Mar., 1935 | .11 | .46 | .10 | .54 | .28 | .07 | 5.7 | 44.5 | 2.55 | Grass and bush. | |
| | | June, 1935 | .14 | 1.53 | .26 | 1.34 | .40 | .26 | .11 | 7.8 | 38.8 | 4.64 | Grass and bush; mostly bush. |
| | | Sept., 1935 | .12 | .82 | .31 | 1.38 | .20 | .11 | | | | | |
| Leeuwfontein..... | Victoria West.. | Nov., 1934 | .10 | .74 | .22 | 1.42 | .71 | .49 | 9.3 | 33.8 | 5.89 | Bush. | |
| | | Feb., 1935 | .19 | .91 | .31 | 1.70 | .30 | .36 | .23 | 8.2 | 34.2 | 5.53 | Grass, mainly green, and bush; mostly bush. |
| | | May, 1935 | .13 | .66 | .30 | 1.37 | .32 | .23 | | 8.8 | 41.0 | 4.57 | Grass, short, and bush; mostly bush. |
| Driefontein..... | Victoria West.. | Dec., 1934 | .15 | .71 | .25 | 2.28 | .60 | .55 | 10.5 | 34.1 | 6.46 | Grass and bush. | |
| | | June, 1935 | .17 | 1.27 | .57 | 2.72 | 2.50 | 3.06 | | 12.1 | 25.7 | 14.38 | Bush. |
| | | Sept., 1935 | .21 | .97 | .35 | 1.84 | 1.00 | .58 | | 10.7 | 30.7 | 8.34 | Bush. |
| Sandaar..... | Victoria West.. | Jan., 1935 | .20 | .65 | .44 | 2.16 | 1.23 | 1.65 | 10.9 | 31.3 | 8.40 | Grass, green, and bush. | |
| | | April, 1935 | .12 | .57 | .27 | 1.21 | 1.12 | .63 | 7.7 | 36.7 | 6.42 | Bush. | |
| | | Oct., 1935 | .17 | 1.23 | .41 | 1.99 | .53 | .47 | | 7.9 | 32.7 | 7.12 | Bush. |
| Toonseplaas..... | Sutherland..... | Dec., 1934 | .13 | .78 | .24 | 1.98 | 1.52 | .72 | 10.1 | 29.0 | 9.40 | Bush. | |
| | | Feb., 1935 | .12 | .51 | .10 | .87 | .15 | .10 | 5.3 | 37.6 | 4.47 | Bush. | |
| | | May, 1935 | .29 | 1.15 | .43 | 2.50 | .30 | .64 | | 12.9 | 29.7 | 8.26 | Bush. |
| | | Aug., 1935 | .27 | 1.21 | .35 | 2.26 | .41 | .57 | | 11.9 | 27.1 | 8.02 | Bush. |
| Vyfontein..... | Sutherland..... | Dec., 1934 | .12 | .89 | .30 | 1.45 | 1.34 | .74 | 9.4 | 28.7 | 9.78 | Bush. | |
| | | Mar., 1935 | .31 | 1.28 | .34 | — | .14 | .65 | 12.2 | 31.1 | 9.10 | Grass, mainly brown, short, and mostly bush. | |
| | | June, 1935 | .17 | 1.13 | .32 | 1.80 | .36 | .64 | | 11.3 | 27.4 | 7.23 | Bush. |
| Snyderspost..... | Sutherland..... | Sept., 1935 | .29 | .96 | .27 | 2.77 | .27 | .79 | 13.9 | 23.4 | 7.96 | Bush. | |
| | | Jan., 1935 | .11 | .57 | .35 | 1.59 | 1.13 | .29 | | 7.5 | 38.8 | 7.56 | Bush. |
| | | April, 1935 | .14 | .67 | .32 | 1.69 | 1.29 | 1.02 | | 8.3 | 38.8 | 8.32 | Bush. |
| Inverurie..... | Beaufort West. | Oct., 1935 | .20 | 1.07 | .43 | 2.14 | 1.21 | .96 | 9.0 | 29.3 | 9.52 | Bush. | |
| | | Nov., 1934 | .097 | .52 | .31 | 1.75 | 1.02 | .37 | 6.3 | 34.3 | 6.50 | Grass, short, and bush; mostly bush. | |
| | | Feb., 1935 | .13 | .58 | .21 | 1.15 | 1.17 | .54 | | 6.6 | 40.2 | 6.02 | Bush. |
| | | May, 1935 | .27 | .92 | .30 | 2.26 | .76 | .38 | 11.3 | 31.5 | 7.42 | Bush. | |
| | | Aug., 1935 | .14 | .77 | .26 | 1.49 | .52 | .24 | | 7.6 | 32.3 | 5.90 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 16 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|--------------------|----------------|-------------|-----|------|-----|------|------|------|----------------|--------------|--------------|--|
| Snydersfontein... | Beaufort West. | Dec., 1934 | .20 | .88 | .51 | 2.68 | 4.35 | 1.86 | 13.5 | 24.6 | 18.78 | Bush. |
| | | Mar., 1935 | .15 | .71 | .21 | 1.78 | .95 | .43 | 8.7 | 37.2 | 7.46 | Bush. |
| | | June, 1935 | .22 | .58 | .33 | 2.14 | 1.52 | .75 | 10.8 | 31.2 | 8.84 | Bush. |
| | | Sept., 1935 | .16 | .70 | .25 | 1.74 | .79 | .47 | 9.1 | 33.4 | 6.60 | Bush. |
| Rocklands..... | Beaufort West. | Jan., 1935 | .14 | .49 | .23 | 1.33 | .36 | .15 | 6.8 | 37.7 | 4.33 | Bush. |
| | | April, 1935 | .14 | .78 | .23 | 1.93 | .66 | .31 | 7.8 | 36.5 | 6.58 | Bush. |
| | | July, 1935 | .20 | .84 | .43 | 1.85 | .28 | .39 | 10.5 | 28.2 | 6.19 | Bush. |
| | | Oct., 1935 | .22 | .77 | .30 | 2.19 | 1.00 | .49 | 9.6 | 29.1 | 7.40 | Bush. |
| Steenrofsfontein.. | Beaufort West. | Nov., 1934 | .24 | 1.37 | .40 | 3.24 | 1.96 | 1.58 | 16.5 | 26.0 | 14.04 | Bush. |
| | | Feb., 1935 | .15 | 1.10 | .29 | 1.69 | 2.36 | 1.05 | 9.7 | 32.6 | 11.87 | Bush. |
| | | May, 1935 | .20 | .99 | .30 | 1.72 | .83 | .61 | 11.5 | 33.5 | 8.68 | Bush. |
| Sunnyside..... | Beaufort West. | Jan., 1935 | .12 | 1.61 | .54 | 2.49 | 1.78 | 1.23 | 11.9 | 27.2 | 13.30 | Bush. |
| | | Mar., 1935 | .12 | 1.27 | .28 | 1.52 | .89 | .73 | 7.4 | 39.6 | 8.42 | Bush. |
| Rhenosterkop.... | Beaufort West. | Jan., 1935 | .12 | 1.52 | .35 | 1.64 | 2.43 | 1.77 | 10.4 | 27.0 | 14.60 | Bush. |
| | | April, 1935 | .16 | 2.10 | .50 | 1.69 | 1.37 | .97 | 11.7 | 27.1 | 11.75 | Bush. |
| Celeryfontein..... | Carnarvon..... | Nov., 1934 | .16 | .82 | .38 | 1.09 | 2.53 | 2.40 | 13.2 | 29.5 | 11.95 | Bush. |
| | | Feb., 1935 | .12 | .45 | .12 | 1.15 | .24 | .11 | 4.5 | 43.3 | 3.37 | Bush. |
| | | May, 1935 | .14 | .88 | .43 | 1.58 | 1.76 | .65 | 8.1 | 35.8 | 10.80 | Bush. |
| | | Aug., 1935 | .32 | .96 | .21 | 1.04 | .38 | .20 | 8.3 | 41.5 | 5.56 | Bush. |
| Klerfontein..... | Carnarvon..... | Dec., 1934 | .18 | .63 | .16 | 1.67 | .19 | .23 | 9.2 | 42.6 | 5.00 | Grass, green, short, and bush; mostly bush. |
| | | Mar., 1935 | .12 | .58 | .22 | .87 | .31 | .21 | 6.2 | 45.7 | 3.93 | Bush. |
| | | June, 1935 | .12 | .55 | .24 | 1.30 | .26 | .42 | 5.8 | 39.1 | 3.13 | Grass, short, and bush. |
| | | Sept., 1935 | .17 | .79 | .21 | 1.81 | .44 | .28 | 8.0 | 38.2 | 7.08 | Bush. |
| Rhenosterkolk.... | Carnarvon..... | Jan., 1935 | .17 | .74 | .30 | 1.68 | 2.07 | 1.06 | 10.3 | 32.8 | 10.53 | Bush. |
| | | April, 1935 | .19 | 1.20 | .63 | 1.93 | 2.44 | 1.61 | 12.9 | 31.8 | 13.82 | Bush. |
| | | July, 1935 | .23 | .58 | .49 | 2.57 | 4.01 | 2.39 | 14.3 | 22.6 | 17.25 | Bush. |
| | | Oct., 1935 | .15 | .91 | .36 | 1.53 | 1.56 | .73 | 8.1 | 37.4 | 9.58 | Bush. |

AREA 16 (continued).

P. J. DU TOIT, J. G. LOUW AND A. I. MALAN.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|---------------------------|----------------|-------------|------|------|-----|------|------|-------|----------------|--------------|--------------|---|
| Rooidam (Van Wyksvlei) | Carnarvon..... | June, 1934 | .14 | .87 | .38 | 1.19 | 2.19 | .42 | 7.5 | 26.9 | 9.75 | Grass, brown, and bush; most bush. |
| | | Sept., 1934 | .14 | 1.06 | .38 | 1.65 | 2.68 | 1.83 | 11.8 | 28.5 | 12.70 | Grass, brown, and bush. |
| | | Oct., 1934 | .10 | 1.00 | .16 | .73 | .50 | .21 | 5.9 | 42.0 | 4.61 | Bush. |
| | | Jan., 1935 | .18 | 1.36 | .48 | 2.05 | 1.94 | 1.59 | 12.8 | 29.2 | 12.32 | Grass, mainly brown, and bush; mostly bush. |
| | | April, 1935 | .13 | .78 | .38 | 1.86 | 1.23 | .93 | 8.3 | 34.6 | 7.98 | Grass, brown, and bush; mostly bush. |
| | | July, 1935 | .15 | 1.18 | .38 | 1.16 | 1.64 | .76 | 10.2 | 28.1 | 9.84 | Grass, brown, and bush; mostly bush. |
| Skietkloof (Van Wyksvlei) | Carnarvon..... | Oct., 1935 | .12 | 1.52 | .45 | .96 | 9.92 | 17.10 | 8.6 | 20.1 | 35.40 | Bush. |
| | | Nov., 1934 | .19 | 1.17 | .25 | 1.62 | .85 | .41 | 12.1 | 28.0 | 7.28 | Bush. |
| | | Feb., 1935 | .12 | .96 | .33 | 1.09 | 1.84 | .89 | 7.4 | 34.9 | 7.68 | Grass, mainly brown, and bush; mostly bush. |
| | | May, 1935 | .11 | 1.20 | .51 | .67 | 7.60 | 5.96 | 8.7 | 21.2 | 30.15 | Bush. |
| | | Aug., 1935 | .20 | 1.11 | .37 | 2.86 | 2.52 | 1.00 | 13.7 | 25.8 | 11.94 | Grass, brown, and bush; mostly bush. |
| Daniëlsdam (Van Wyksvlei) | Carnarvon..... | Nov., 1935 | .067 | 1.54 | .40 | 1.01 | 2.82 | .62 | 9.2 | 33.6 | 13.18 | Bush. |
| | | Dec., 1934 | .18 | .82 | .27 | 2.09 | 2.07 | 1.78 | 10.9 | 34.6 | 10.93 | Grass, green, and bush; mostly bush. |
| | | Mar., 1935 | .13 | 1.80 | .18 | 1.63 | .80 | 1.65 | 7.6 | 40.5 | 8.92 | Grass, mainly brown, and bush; mostly bush. |
| Blauwkranz..... | Carnarvon..... | Sept., 1935 | .12 | 1.07 | .37 | 1.70 | 2.34 | 1.95 | 8.1 | 30.9 | 12.23 | Bush. |
| | | Nov., 1934 | .23 | 1.09 | .37 | 2.12 | .68 | .48 | 11.6 | 29.3 | 7.51 | Bush. |
| Oorlogshoek..... | Carnarvon..... | April, 1935 | .15 | .59 | .26 | 1.74 | .27 | .20 | 7.6 | 40.5 | 4.85 | Bush. |
| | | Nov., 1934 | .13 | .80 | .34 | 1.78 | 1.46 | .99 | 9.4 | 31.4 | 9.32 | Grass, mainly green, and bush. |
| Vryleepte..... | Carnarvon..... | Mar., 1935 | .16 | .44 | .28 | 1.39 | .82 | 1.02 | 6.4 | 42.9 | 5.00 | Grass and bush; mostly bush. |
| | | Nov., 1934 | .25 | 1.05 | .36 | 2.41 | 1.28 | .79 | 16.0 | 24.5 | 9.06 | Grass, mainly green, and bush; mostly bush. |
| Vryleepte..... | Carnarvon..... | Mar., 1935 | .11 | .54 | .13 | .67 | .47 | .13 | 7.2 | 45.9 | 4.10 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 17.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein, | Crude Fibre. | Solu-ble Ash. | Description of Sample. | |
|----------------------------------|---------------|-------------|------|------|-----|------|------|------|----------------|--------------|---------------|--------------------------------------|-------|
| Biesiesvlei (Nieuwerust) | Van Rhynsdorp | Nov., 1934 | .094 | 1.69 | .64 | 1.53 | 2.38 | 3.52 | 7.6 | 30.8 | 14.78 | Bush. | |
| | | Jan., 1935 | .092 | 1.33 | .60 | 1.37 | 1.57 | 2.60 | 6.4 | 37.4 | 11.16 | Bush. | |
| | | April, 1935 | .12 | 1.05 | .58 | 1.40 | 2.88 | 7.7 | 2.04 | 7.9 | 34.9 | 13.48 | Bush. |
| | | Aug., 1935 | .18 | 1.90 | .64 | 1.98 | 4.09 | 6.40 | 3.29 | 10.3 | 26.0 | 19.80 | Bush. |
| | | Oct., 1935 | .16 | 1.24 | .60 | 1.51 | 3.25 | | | 26.4 | 15.18 | Bush. | |
| Middelput (Nieuwerust) | Van Rhynsdorp | Nov., 1934 | .094 | 1.05 | .65 | 1.42 | 1.40 | 2.46 | 8.1 | 29.3 | 10.00 | Bush. | |
| | | Mar., 1935 | .10 | 1.05 | .48 | 1.30 | .84 | 1.80 | 8.1 | 39.1 | 7.80 | Bush. | |
| | | June, 1935 | .13 | 1.59 | .51 | 1.75 | 1.32 | 3.05 | 2.82 | 10.9 | 33.5 | 11.24 | Bush. |
| | | Sept., 1935 | .15 | .90 | .70 | 1.86 | 1.65 | | | 10.4 | 30.1 | 12.06 | Bush. |
| Roovlei (Nieuwerust) | Van Rhynsdorp | Jan., 1935 | .06 | .49 | .25 | .70 | .31 | .39 | 4.5 | 32.4 | 3.42 | Bush. | |
| | | April, 1935 | .066 | .73 | .24 | .88 | .49 | .70 | 5.4 | 34.1 | 5.04 | Bush. | |
| | | July, 1935 | .13 | 1.12 | .32 | 1.49 | 1.05 | 2.13 | 9.7 | 31.6 | 9.54 | Bush. | |
| | | Oct., 1935 | .10 | 1.17 | .50 | 1.28 | 1.28 | 1.96 | 7.4 | 31.2 | 9.14 | Bush. | |
| Sandkraal..... | Van Rhynsdorp | Nov., 1934 | .083 | .75 | .55 | 1.59 | 3.43 | 5.30 | 9.4 | 26.1 | 14.90 | Bush. | |
| | | Feb., 1935 | .06 | .25 | .06 | .56 | .12 | .12 | 4.5 | 42.4 | 2.05 | Bush. | |
| | | May, 1935 | .26 | 2.43 | .65 | 2.91 | 1.76 | 5.06 | 19.3 | 23.8 | 18.48 | Bush. | |
| | | Aug., 1935 | .17 | .95 | .50 | 2.62 | 1.72 | 2.66 | 13.9 | 25.3 | 11.24 | Bush. | |
| Batfontein..... | Van Rhynsdorp | Dec., 1934 | .072 | .36 | .23 | 1.00 | .58 | .41 | 7.4 | 34.1 | 4.14 | Bush. | |
| | | Mar., 1935 | .046 | .13 | .07 | .42 | .06 | .23 | 3.8 | 39.0 | 1.23 | Grass, brown, and bush. | |
| | | June, 1935 | .12 | .56 | .26 | 1.69 | .65 | 1.11 | 10.6 | 35.2 | 5.60 | Grass, mainly green, and bush. | |
| | | Sept., 1935 | .086 | .41 | .15 | 1.20 | .18 | .39 | 7.4 | 36.9 | 3.65 | Grass, green, and bush; mostly bush. | |
| Diepvelei..... | Van Rhynsdorp | Jan., 1935 | .073 | .64 | .29 | 1.28 | .81 | .37 | 7.3 | 41.0 | 6.19 | Bush. | |
| | | April, 1935 | .11 | .78 | .46 | 1.39 | .80 | .50 | 8.0 | 28.6 | 6.82 | Bush. | |
| | | July, 1935 | .11 | 1.48 | .23 | 1.70 | 1.81 | 1.22 | 9.3 | 39.1 | 11.45 | Bush. | |
| | | Oct., 1935 | .087 | .88 | .42 | 1.05 | 1.71 | .89 | 8.0 | 44.4 | 8.64 | Bush. | |
| Oortegskloof (Nieuwoudtville) | Calvinia..... | Nov., 1934 | .13 | 1.17 | .34 | 1.66 | 1.23 | .99 | 10.0 | 30.3 | 9.46 | Bush. | |
| | | Feb., 1935 | .057 | .39 | .13 | .66 | .13 | .14 | 3.7 | 36.1 | 2.44 | Bush. | |
| | | May, 1935 | .13 | .52 | .22 | .93 | .19 | .21 | 7.5 | 41.1 | 3.97 | Bush. | |
| | | Aug., 1935 | .13 | 1.09 | .27 | 3.16 | .51 | 1.17 | 12.1 | 24.0 | 8.90 | Bush. | |

AREA 17 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|----------------------------------|---------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|------------------------|---|
| Grasberg (Nietwoudville) | Calvinia..... | Dec., 1934 | .12 | .81 | .32 | .85 | .43 | .59 | 8.2 | 34.5 | 5.54 | Bush. | |
| | | Mar., 1935 | .07 | .26 | .10 | .83 | .13 | .40 | .40 | 5.2 | 32.9 | 2.04 | Grass and bush. |
| | | June, 1935 | .14 | 1.08 | .73 | 1.42 | 2.44 | 1.48 | 1.48 | 10.5 | 26.8 | 11.40 | Bush. |
| | | Sept., 1935 | .21 | .92 | .50 | 1.88 | 1.99 | 1.28 | 1.28 | 10.4 | 29.5 | 10.34 | Bush. |
| Matjesfontein (Nietwoudville) | Calvinia..... | Jan., 1935 | .13 | .94 | .38 | 1.47 | 2.04 | 2.25 | 9.1 | 32.6 | 11.44 | Bush. | |
| | | April, 1935 | .074 | 1.32 | .55 | 1.14 | 4.16 | 2.04 | 8.3 | 28.9 | 16.30 | Bush. | |
| | | July, 1935 | .16 | .88 | .50 | 1.32 | 1.76 | 1.14 | 1.14 | 9.1 | 38.0 | 9.68 | Bush. |
| | | Oct., 1935 | .18 | 1.27 | .48 | 1.44 | 2.39 | 1.70 | 1.70 | 6.9 | 31.6 | 12.04 | Bush. |
| Diepdrift..... | Calvinia..... | Nov., 1934 | .097 | .53 | .19 | 1.10 | .87 | .09 | 7.4 | 36.7 | 5.70 | Bush. | |
| | | Feb., 1935 | .12 | .97 | .21 | .86 | .36 | .25 | .25 | 5.4 | 42.4 | 4.67 | Bush. |
| | | May, 1935 | .10 | 1.19 | .28 | .84 | .70 | .27 | .27 | 7.9 | 36.3 | 6.62 | Bush. |
| | | Aug., 1935 | .14 | .99 | .25 | 1.13 | 1.20 | .53 | .53 | 7.2 | 35.1 | 6.81 | Bush. |
| Upper Downs.... | Calvinia..... | Dec., 1934 | .15 | .92 | .33 | 1.88 | 1.99 | 1.37 | 9.2 | 34.0 | 11.24 | Bush. | |
| | | Mar., 1935 | .073 | 1.60 | .31 | .76 | .84 | .14 | .14 | 6.2 | 43.3 | 6.78 | Bush. |
| | | June, 1935 | .11 | .88 | .28 | 1.11 | 1.38 | .80 | .80 | 7.3 | 38.0 | 7.45 | Grass, brown, and bush; mostly bush. |
| | | Sept., 1935 | .16 | .71 | .34 | 1.64 | 1.60 | 1.13 | 1.13 | 8.7 | 34.8 | 8.98 | Bush. |
| Van Rhyshoek... | Calvinia..... | Jan., 1935 | .098 | .68 | .29 | 1.42 | 1.22 | .33 | 6.3 | 37.2 | 7.48 | Bush. | |
| | | July, 1935 | .15 | 1.31 | .33 | 1.49 | .18 | .43 | .43 | 9.4 | 31.2 | 6.06 | Grass, green, and bush; mostly bush. |
| | | Oct., 1935 | .22 | 1.12 | .41 | 2.65 | .36 | .65 | .65 | 6.3 | 34.1 | 8.66 | Bush. |
| Narocgena (Brandvlei) | Calvinia..... | Nov., 1934 | .10 | 1.01 | .20 | — | .38 | .28 | 8.1 | 42.1 | 5.98 | Bush. | |
| | | Mar., 1935 | .074 | .58 | .11 | .97 | .49 | .17 | .17 | 5.2 | — | 4.27 | Bush. |
| | | June, 1935 | .13 | .97 | .28 | 1.40 | 1.64 | .49 | .49 | 7.2 | 38.0 | 9.10 | Bush. |
| | | Sept., 1935 | .10 | 1.47 | .28 | .95 | 1.64 | .36 | .36 | 6.4 | 39.7 | 9.80 | Bush. |
| Verdwaalvlei (Brandvlei) | Calvinia..... | Jan., 1935 | .07 | 2.95 | .41 | 1.02 | 1.00 | .42 | 6.5 | 31.1 | 12.27 | Bush. | |
| | | April, 1935 | .10 | 2.11 | .38 | 1.52 | .89 | .52 | .52 | 8.1 | 32.9 | 10.58 | Bush. |
| | | July, 1935 | .14 | 1.06 | .22 | 1.33 | .60 | .44 | .44 | 7.8 | 36.3 | 6.00 | Grass, brown, short, and bush; mostly bush. |
| | | Oct., 1935 | .11 | 1.55 | .27 | 1.02 | .81 | 1.18 | 1.18 | 5.7 | 39.7 | 8.26 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 17 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|-------------------------------------|---------------|-------------|------|------|------|------|------|------|----------------|--------------|--------------|--------------------------------------|
| Karesekolk (Brandvlei) | Calvinia..... | Feb., 1935 | .11 | .66 | .15 | .83 | .86 | .12 | 4.8 | 45.3 | 5.34 | Bush. |
| | | Aug., 1935 | .095 | 1.99 | .74 | 1.71 | .71 | .67 | 6.1 | 30.1 | 10.80 | Bush. |
| Lospersplaas (Loetiesfontein) | Calvinia..... | Nov., 1934 | .057 | 1.17 | .26 | .72 | 1.35 | .59 | 6.4 | 36.2 | 7.35 | Grass, brown, and bush; mostly bush. |
| | | May, 1935 | .083 | 1.00 | .14 | .61 | .38 | .16 | 4.8 | 43.3 | 4.44 | Grass, brown, and bush. |
| Kaffersbank (Loetiesfontein) | Calvinia..... | Dec., 1934 | .11 | 1.09 | .40 | 1.89 | 3.05 | 1.97 | 7.2 | 35.3 | 15.07 | Bush. |
| | | Mar., 1935 | .12 | .91 | .26 | 1.16 | 4.42 | 1.58 | 7.9 | 34.5 | 16.10 | Bush. |
| | | June, 1935 | .11 | .73 | .36 | .83 | 1.03 | .66 | 8.7 | 43.8 | 6.24 | Bush. |
| Krantzgat River (Loetiesfontein) | Calvinia..... | Jan., 1935 | .11 | 1.11 | .47 | 1.39 | 1.21 | .69 | 6.6 | 36.1 | 8.27 | Bush. |
| | | April, 1935 | .14 | .83 | .36 | .84 | 3.10 | 1.45 | 9.4 | 34.5 | 12.10 | Bush. |
| Koets (Kamies- kroon) | Namaqualand.. | Nov., 1934 | .086 | .84 | .25 | .98 | .17 | .33 | 8.5 | 29.2 | 4.50 | Bush. |
| | | Feb., 1935 | .098 | 1.08 | .24 | 1.29 | .25 | .39 | 6.9 | 25.5 | 5.90 | Bush. |
| | | May, 1935 | .14 | .84 | .35 | 1.20 | .27 | .72 | 12.6 | 36.5 | 5.08 | Bush. |
| | | Sept., 1935 | .16 | 1.29 | .43 | 1.82 | .81 | 1.66 | 8.9 | 35.3 | 9.04 | Grass, green, and bush; mostly bush. |
| Olienfontein (Kamieskroon) | Namaqualand.. | Dec., 1934 | .077 | 1.08 | .19 | 1.30 | .21 | .44 | 6.4 | 37.6 | 5.98 | Bush. |
| | | Mar., 1935 | .053 | .82 | .14 | .42 | .05 | .12 | 4.5 | 38.8 | 2.20 | Bush. |
| | | June, 1935 | .094 | .83 | .38 | 1.39 | .09 | .33 | 8.6 | 26.1 | 5.17 | Bush. |
| | | Oct., 1935 | .33 | 1.59 | .32 | 3.17 | .44 | 1.44 | 14.0 | 14.0 | 27.0 | 11.05 |
| Grootvlei (Kamieskroon) | Namaqualand.. | Jan., 1935 | .05 | .37 | .14 | .67 | .18 | .22 | 4.7 | 51.8 | 2.87 | Bush. |
| | | April, 1935 | .05 | .34 | .16 | .41 | .11 | .08 | 5.1 | 49.0 | 2.19 | Bush. |
| Morgenskadu (Springbok) | Namaqualand.. | Nov., 1934 | .083 | .33 | .18 | 1.02 | .81 | .60 | 6.2 | 34.5 | 4.02 | Grass, brown, and bush. |
| | | Feb., 1935 | .21 | .72 | .29 | 2.07 | .56 | .58 | 11.4 | 37.1 | 6.00 | Grass and bush; mostly grass. |
| | | May, 1935 | .13 | .55 | .25 | .89 | .70 | .37 | 7.1 | 39.6 | 4.32 | Grass and bush. |
| | | Aug., 1935 | .18 | .94 | .47 | 2.08 | 1.91 | 2.00 | 9.1 | 28.2 | 9.90 | Bush. |
| Nov., 1935 | .11 | .68 | .32 | 1.37 | 1.32 | 1.09 | 1.32 | 5.9 | 34.1 | 7.54 | Bush. | |
| Goobees (Spring- bok) | Namaqualand.. | Dec., 1934 | .084 | .43 | .13 | 1.00 | .49 | .38 | 4.8 | 38.7 | 3.43 | Grass, brown, and bush. |
| | | Mar., 1935 | .09 | .86 | .29 | .85 | .66 | .20 | 6.2 | 34.8 | 5.04 | Bush. |
| | | Jun., 1935 | .20 | 1.07 | .50 | 2.12 | 2.34 | 1.87 | 13.1 | 21.7 | 11.86 | Bush. |
| | | Sept., 1935 | .20 | 1.33 | .44 | 2.86 | 1.78 | 1.67 | 10.6 | 29.8 | 11.48 | Bush. |

AREA 17 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|------------------------------|---------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|--------------------------------|
| Orangfontein (Springbok) | Namaqualand.. | Jan., 1935 | .087 | .74 | .42 | .76 | .98 | .56 | 5.6 | 30.8 | 6.56 | Bush. |
| | | Oct., 1935 | .13 | .97 | .57 | 1.55 | 1.09 | | 6.7 | 30.6 | 8.30 | Bush. |
| Bloedsmaak (Garies) | Namaqualand.. | Nov., 1934 | .12 | .74 | .27 | 1.80 | .64 | 1.30 | 8.4 | 34.8 | 6.18 | Grass, brown, and bush. |
| | | Feb., 1935 | .11 | .59 | .22 | .94 | .34 | .36 | 6.2 | 37.7 | 4.04 | Grass, mainly brown, and bush; |
| | | May, 1935 | .086 | .63 | .17 | .92 | .25 | .38 | | 6.7 | 41.3 | 3.80 |
| | | Aug., 1935 | .12 | .76 | .40 | 1.64 | 1.01 | 1.29 | 8.8 | 40.8 | 7.14 | Bush. |
| Kliphock (Garies) | Namaqualand.. | Dec., 1934 | .15 | 1.15 | .45 | 2.21 | 3.85 | 5.14 | 10.0 | 28.4 | 16.78 | Bush. |
| | | Mar., 1935 | .17 | .68 | .27 | 1.46 | 1.55 | 1.86 | 6.7 | 40.6 | 8.12 | Grass, mainly brown, and bush; |
| | | June, 1935 | .19 | 1.11 | .58 | 1.82 | 2.54 | 3.53 | 12.0 | 29.3 | 15.27 | Bush. |
| | | Sept., 1935 | .13 | .91 | .61 | 1.60 | 2.67 | 3.70 | 8.4 | 39.7 | 13.90 | Bush. |
| Rooiheurvel (Garies) | Namaqualand.. | Jan., 1935 | .11 | 1.03 | .25 | 1.64 | 1.22 | 1.90 | 7.3 | 34.4 | 9.48 | Bush. |
| | | April, 1935 | .11 | .76 | .41 | 1.38 | .97 | .93 | 6.2 | 42.8 | 6.16 | Bush. |
| | | July, 1935 | .11 | .92 | .38 | 1.69 | 1.02 | 1.49 | 9.3 | 36.5 | 8.24 | Bush. |
| | | Oct., 1935 | .10 | .77 | .40 | 1.18 | .83 | .98 | 6.2 | 39.8 | 6.33 | Bush. |
| Swartfontein (Wallekraal) | Namaqualand.. | Nov., 1934 | .11 | 1.39 | .36 | 1.08 | .99 | 1.91 | 5.6 | 36.8 | 9.08 | Bush. |
| | | Feb., 1935 | .086 | .58 | .23 | .75 | .36 | .42 | 5.0 | 48.2 | 3.82 | Bush. |
| | | May, 1935 | .11 | 1.14 | .41 | 1.54 | .79 | .18 | 7.7 | 36.4 | 8.75 | Bush. |
| | | Aug., 1935 | .18 | 1.38 | .53 | 2.36 | 2.41 | 2.86 | 11.6 | 29.1 | 13.77 | Bush. |
| Avontuur (Wallekraal) | Namaqualand.. | Nov., 1934 | .13 | 1.85 | .51 | 1.80 | 1.49 | 2.10 | 9.7 | 31.9 | 13.10 | Bush. |
| | | Mar., 1935 | .12 | .97 | .29 | 1.32 | 1.46 | 1.69 | 6.1 | 35.9 | 9.14 | Bush. |
| | | June, 1935 | .18 | 1.25 | .55 | 2.03 | 1.75 | 2.50 | 11.8 | 37.6 | 11.82 | Bush. |
| | | Sept., 1935 | .17 | 1.83 | .73 | 1.87 | 3.47 | 4.48 | 10.7 | 27.0 | 19.30 | Bush. |
| Waltvedren (Wallekraal) | Namaqualand.. | Dec., 1934 | .097 | .71 | .48 | 1.17 | 1.36 | 2.07 | 6.5 | 39.9 | 8.80 | Bush. |
| | | April, 1935 | .11 | 1.42 | .73 | 1.71 | 3.29 | 3.94 | 5.9 | 21.6 | 15.80 | Bush. |
| | | July, 1935 | .15 | 1.13 | .56 | 1.79 | 2.23 | 3.67 | 11.7 | 33.2 | 13.45 | Bush. |
| | | Oct., 1935 | .11 | .77 | .58 | 1.66 | 2.04 | 2.64 | 6.7 | 35.9 | 11.50 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 18.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|----------------------------|---------------|-------------|------|------|-----|------|-------|------|----------------|--------------|--------------|--|---------------------------------------|
| Vrouenspan..... | Gordonia..... | Nov., 1934 | .062 | .70 | .20 | .65 | .89 | .50 | 4.7 | 37.4 | 4.44 | Grass, brown, and bush. | |
| | | Feb., 1935 | .12 | 1.04 | .25 | 1.53 | .43 | .56 | 8.4 | 35.4 | 5.88 | Grass, mainly green, and bush. | |
| | | May, 1935 | .12 | .91 | .19 | 1.22 | 1.50 | .08 | .83 | 8.3 | 34.1 | 8.28 | Grass, mainly brown, leafy, and bush. |
| | | Sept., 1935 | .13 | .69 | .26 | 1.45 | 1.46 | 1.14 | 8.9 | 32.0 | 7.22 | Grass, mainly brown, and bush. | |
| Springbokvlei.... | Gordonia..... | Dec., 1934 | .15 | .80 | .27 | 2.58 | .04 | .40 | 10.5 | 37.5 | 6.34 | Grass, mainly brown, and bush; mostly bush. | |
| | | April, 1935 | .12 | 1.28 | .26 | 1.02 | .05 | .18 | 8.8 | 38.4 | 4.98 | Grass, brown, and bush; mostly bush. | |
| | | Aug., 1935 | .078 | .43 | .08 | .55 | .03 | .13 | 5.9 | 44.6 | 1.98 | Grass, brown, long. | |
| Langklip..... | Gordonia..... | Oct., 1935 | .12 | .51 | .18 | 1.87 | .83 | .53 | 7.6 | 39.3 | 5.94 | Grass, mainly brown, and bush; mostly grass. | |
| | | Jan., 1935 | .094 | 2.03 | .27 | 1.57 | .22 | .53 | 6.6 | 40.1 | 8.02 | Grass, mainly green, and bush. | |
| | | Mar., 1935 | .085 | 1.37 | .25 | 1.16 | .08 | .17 | 5.6 | 42.9 | 5.37 | Grass, brown, and bush. | |
| Boksputs (Keimoes) | Kenhardt..... | July, 1935 | .11 | 1.24 | .21 | .98 | .03 | .18 | 5.4 | 42.6 | 5.00 | Grass, brown, and bush. | |
| | | Nov., 1934 | .062 | .51 | .14 | .49 | .02 | .11 | 4.1 | 40.0 | 2.33 | Grass, brown. | |
| | | Feb., 1935 | .13 | 1.79 | .36 | 1.44 | .23 | .34 | 6.2 | 34.9 | 7.78 | Grass, mainly brown, and bush. | |
| | | June, 1935 | .11 | .62 | .13 | .78 | .11 | .16 | 5.7 | 42.4 | 2.93 | Grass, mainly brown, and bush; mostly grass. | |
| Droeghout (Upington) | Kenhardt..... | Sept., 1935 | .12 | 2.14 | .21 | 1.58 | .32 | .43 | 7.3 | 36.4 | 8.30 | Grass, brown, and bush. | |
| | | Dec., 1934 | .12 | 1.40 | .27 | 1.28 | .03 | .29 | 7.9 | 35.9 | 5.54 | Grass, mainly green, and bush; mostly grass. | |
| | | Mar., 1935 | .14 | 2.41 | .37 | 1.48 | .07 | .36 | 7.4 | 42.5 | 9.75 | Grass, mainly green, and bush. | |
| C'Nyaaas Oost (Upington) | Kenhardt..... | May, 1935 | .14 | .52 | .13 | 1.20 | .06 | .20 | 9.1 | 36.2 | 3.25 | Grass. | |
| | | Aug., 1935 | .19 | 1.41 | .25 | 2.03 | .33 | .81 | 8.8 | 30.3 | 7.02 | Grass, brown, and bush. | |
| | | Jan., 1935 | .093 | .75 | .17 | 1.12 | .11 | .32 | 6.1 | 40.3 | 4.18 | Grass and bush; mostly grass. | |
| | | April, 1935 | .074 | .49 | .16 | .86 | .74 | .22 | 5.1 | 35.3 | 3.62 | Grass, brown, and bush; mostly grass. | |
| Koegracie (Putsonderwater) | Kenhardt..... | July, 1935 | .11 | .59 | .10 | 1.01 | .26 | .26 | 5.6 | 37.6 | 3.37 | Grass, mainly brown, and bush; mostly grass. | |
| | | Oct., 1935 | .12 | .40 | .14 | .87 | .37 | .20 | 4.0 | 35.5 | 3.13 | Grass, brown, and bush; mostly grass. | |
| | | Nov., 1934 | .11 | .98 | .29 | 1.55 | trace | .32 | 10.4 | 34.7 | 5.18 | Grass, green, and bush. | |
| Olivenhoutdrift... | Kenhardt..... | May, 1935 | .14 | .69 | .17 | 1.46 | .06 | .44 | 11.1 | 36.8 | 4.00 | Grass, mainly green, and bush; mostly grass. | |
| | | Dec., 1934 | .15 | 2.58 | .43 | 1.44 | .06 | .37 | 11.2 | 30.5 | 10.07 | Bush. | |
| | | Mar., 1935 | .10 | 1.21 | .30 | 2.70 | .11 | .36 | 14.2 | 29.0 | 7.72 | Grass, green, and bush. | |
| | | Sept., 1935 | .21 | 1.06 | .26 | 2.52 | .13 | .89 | 10.4 | 25.7 | 7.70 | Grass, green, and bush; mostly bush. | |

AREA 18 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|---------------------------|---------------|-------------|------|------|-----|------|-------|------|----------------|--------------|--------------|---|
| Eselfontein (Upington) | Kenhardt..... | Jan., 1935 | .13 | .35 | .33 | 1.25 | .08 | .38 | 5.6 | 41.1 | 4.97 | Grass, mainly brown, and bush ; mostly grass. |
| | | April, 1935 | .12 | 2.48 | .30 | 1.38 | .32 | 1.51 | 10.0 | 31.5 | 9.52 | Grass and bush. |
| | | July, 1935 | .14 | 1.16 | .26 | 1.90 | .06 | .54 | 9.4 | 31.0 | 6.16 | Grass and bush ; mostly grass. |
| Demansput..... | Kenhardt..... | Nov., 1934 | .12 | .62 | .38 | 1.24 | 4.31 | 1.19 | 8.6 | 27.6 | 16.05 | Bush. |
| | | Feb., 1935 | .14 | 1.65 | .37 | 1.50 | 5.98 | 3.95 | 10.2 | 24.5 | 24.00 | Bush. |
| | | May, 1935 | .16 | 1.04 | .50 | 2.03 | 2.50 | .09 | 8.1 | 31.2 | 13.25 | Bush. |
| | | Aug., 1935 | .15 | 1.28 | .68 | 1.82 | 4.70 | 2.01 | 5.3 | 27.7 | 18.75 | Bush. |
| Roosberg..... | Kenhardt..... | Dec., 1934 | .20 | 1.10 | .29 | 1.90 | .96 | .76 | 15.7 | 31.7 | 9.07 | Grass, mainly green, short, and bush ; mostly grass. |
| | | Mar., 1935 | .12 | 1.22 | .33 | 1.33 | 1.81 | .50 | 9.0 | 36.3 | 10.40 | Grass, brown, and bush ; mostly bush. |
| | | June, 1935 | .13 | 1.21 | .45 | 1.65 | 1.53 | .65 | 10.2 | 29.0 | 9.44 | Grass, brown, and bush. |
| Middepos..... | Kenhardt..... | Sept., 1935 | .11 | 1.03 | .37 | 1.32 | 1.71 | 1.28 | 8.5 | 35.8 | 8.80 | Grass, mainly brown, and bush. |
| | | Jan., 1935 | .084 | 1.19 | .31 | 1.46 | 1.53 | .70 | 9.4 | 33.8 | 9.40 | Grass, brown, short, and bush ; mostly bush. |
| | | April, 1935 | .16 | .91 | .36 | 2.43 | 1.12 | .82 | 11.2 | 31.0 | 8.76 | Grass and bush. |
| Leeuwkop..... | Kenhardt..... | July, 1935 | .13 | 1.31 | .45 | 1.42 | 1.27 | .58 | 10.8 | 31.9 | 10.00 | Grass and bush ; mostly bush. |
| | | Oct., 1935 | .13 | 1.39 | .35 | 2.04 | 3.74 | 2.14 | 8.2 | 27.9 | 16.38 | Bush. |
| | | Nov., 1934 | .075 | .38 | .16 | .80 | 1.20 | .92 | 8.6 | 37.6 | 5.16 | Grass, brown, and bush. |
| | | Feb., 1935 | .12 | 1.27 | .45 | 1.43 | .62 | .39 | 6.4 | 34.8 | 6.60 | Grass, brown, and bush. |
| Driekop Noord... | Kenhardt..... | May, 1935 | .077 | 1.48 | .27 | .89 | .47 | .24 | 6.2 | 38.9 | 6.30 | Grass, brown, and bush. |
| | | Aug., 1935 | .088 | .97 | .27 | .84 | 1.35 | .35 | 5.2 | 39.5 | 5.63 | Grass, brown, and bush ; mostly grass. |
| | | Dec., 1934 | .15 | .63 | .18 | 1.22 | .35 | .35 | 7.3 | 35.6 | 3.92 | Grass, mainly green, and bush. |
| | | Mar., 1935 | .12 | 2.40 | .46 | .83 | .20 | .41 | 7.0 | 38.7 | 8.24 | Grass and bush. |
| Olienhoutkolk.... | Kenhardt..... | June, 1935 | .13 | 1.04 | .34 | 1.11 | .03 | .20 | 6.5 | 39.2 | 4.83 | Grass, mainly brown, and bush. |
| | | Sept., 1935 | .10 | .85 | .24 | .96 | 1.31 | .19 | 6.8 | 36.8 | 6.38 | Grass, brown, and bush ; mostly grass. |
| | | Jan., 1935 | .027 | .36 | .05 | .15 | .03 | .48 | 2.8 | 40.0 | 1.33 | Grass, brown. |
| | | April, 1935 | .053 | .38 | .06 | .50 | .09 | .06 | 3.8 | 42.6 | 2.03 | Grass, brown, and bush. |
| Vrede (Upington). | Kenhardt..... | July, 1935 | .10 | .99 | .18 | .96 | .30 | .19 | 6.3 | 41.8 | 4.64 | Grass, mainly brown, and bush. |
| | | Oct., 1935 | .11 | 1.11 | .22 | .83 | .68 | .32 | 6.5 | 40.3 | 5.50 | Grass, brown, short, and bush. |
| | | Nov., 1934 | .087 | 2.19 | .32 | .74 | .04 | .12 | 7.7 | 39.8 | 7.62 | Bush. |
| | | Feb., 1935 | .10 | .62 | .29 | .85 | trace | .16 | 5.9 | 42.2 | 4.93 | Grass, mainly green, and bush. |
| Aug., 1935 | Kenhardt..... | June, 1935 | .09 | 1.23 | .55 | 1.54 | trace | .41 | 8.7 | 37.0 | 6.16 | Grass, mainly brown, and bush ; mostly grass. |
| | | Aug., 1935 | .097 | .81 | .33 | 1.52 | .05 | .18 | 10.1 | 35.2 | 5.06 | Bush. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 18 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|---------------------------|---------------|-------------|------|------|-----|------|-------|------|----------------|--------------|--------------|---|---|
| Christiana (Uppington) | Kenhardt..... | Dec., 1934 | .11 | .92 | .55 | 1.01 | .88 | .47 | 12.3 | 33.4 | 6.44 | Grass and bush. Grass, mainly green, and bush; mostly grass. | |
| | | Mar., 1935 | .13 | .29 | .12 | .89 | trace | .11 | 9.4 | 38.2 | 2.83 | | |
| | | May, 1935 | .14 | .73 | .23 | .98 | .88 | .53 | .53 | 10.3 | 31.4 | 4.93 | Grass, mainly green, and bush mostly grass. Grass and bush. |
| | | Sept., 1935 | .12 | 1.02 | .42 | 1.53 | .76 | .36 | .36 | 10.5 | 32.8 | 6.44 | |
| Kalkpoort (Uppington) | Kenhardt..... | Jan., 1935 | .10 | .51 | .20 | 1.32 | .03 | .37 | 6.8 | 38.3 | 3.59 | Grass, mainly green, and bush; mostly grass. | |
| | | April, 1935 | .066 | 1.12 | .14 | .74 | .08 | .12 | .12 | 6.0 | 38.6 | | 3.99 |
| | | July, 1935 | .097 | .85 | .36 | 1.27 | .02 | .31 | .31 | 7.3 | 39.1 | 4.71 | |
| | | Oct., 1935 | .13 | 1.39 | .29 | 2.59 | .11 | .68 | .68 | 9.4 | 28.1 | 8.90 | |
| Swartpits..... | Kenhardt..... | Nov., 1934 | .077 | .70 | .15 | 1.03 | .18 | .19 | 6.0 | 41.0 | 3.84 | Grass, brown, and bush. Grass, brown, and bush. | |
| | | Feb., 1935 | .092 | 1.02 | .29 | 1.23 | .46 | .23 | .23 | 5.1 | 38.1 | | 5.46 |
| | | May, 1935 | .11 | .65 | .20 | .83 | .60 | .20 | .20 | 6.5 | 40.0 | 4.00 | Grass, mainly brown, and bush. |
| De Bakke..... | Kenhardt..... | Dec., 1934 | .11 | .67 | .21 | 1.19 | .78 | .50 | 7.9 | 36.3 | 5.00 | Grass and bush. Grass, mainly brown, and bush. Grass, mainly brown, and bush; mostly grass. | |
| | | Mar., 1935 | .10 | 1.07 | .20 | .75 | .56 | .33 | .33 | 5.3 | 41.8 | | 4.83 |
| | | June, 1935 | .11 | .76 | .13 | 1.14 | .07 | .15 | .15 | 5.8 | 40.6 | 3.94 | |
| Jachtdrift..... | Kenhardt..... | Jan., 1935 | .27 | 1.13 | .31 | 2.31 | .80 | .91 | 8.4 | 35.4 | 7.28 | Grass, mainly green, and bush. Grass, mainly brown, and bush. Grass, brown, and bush; mostly bush. | |
| | | April, 1935 | .13 | .76 | .24 | 1.21 | .90 | .30 | .30 | 6.7 | 36.0 | | 5.41 |
| | | July, 1935 | .14 | .63 | .30 | 1.10 | 1.82 | .07 | .07 | 7.8 | 38.2 | 7.80 | |
| Noresep (Omscep Kans) | Kenhardt..... | Nov., 1934 | .068 | 1.67 | .23 | .83 | .04 | .16 | 5.7 | 36.4 | 5.82 | Grass, mainly brown, and bush. Grass, mainly brown. | |
| | | Feb., 1935 | .12 | .77 | .13 | 1.20 | .03 | .06 | .06 | 5.0 | 37.8 | | 3.95 |
| | | May, 1935 | .15 | 1.52 | .23 | 1.22 | .04 | .21 | .21 | 8.3 | 39.8 | 6.36 | Grass and bush. Grass, brown, and bush; mostly grass. |
| | | Aug., 1935 | .11 | 1.08 | .22 | .90 | .05 | .30 | .30 | 5.1 | 39.0 | 4.27 | |
| Obiep (Nancies)... | Kenhardt..... | Dec., 1934 | .08 | .30 | .08 | .75 | .04 | .18 | 5.3 | 41.2 | 1.93 | Grass, mainly brown. Bush. | |
| | | Mar., 1935 | .076 | 1.38 | .43 | 1.52 | 3.08 | 1.47 | 7.9 | 26.3 | 16.35 | | |
| | | June, 1935 | .07 | .33 | .18 | .68 | trace | .13 | .13 | 6.0 | 27.9 | 2.19 | Grass, mainly brown. Grass, mainly brown, and bush; mostly grass. |
| | | Sept., 1935 | .12 | .52 | .16 | 1.34 | 1.09 | .87 | .87 | 7.5 | 35.2 | 4.34 | |

AREA 18 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|-------------------------|---------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|--|-------|
| Samoep (Pofadder) | Kenhardt..... | Jan., 1935 | .14 | .57 | .14 | 1.22 | .34 | .35 | 5.9 | 41.6 | 3.75 | Grass, mainly brown, and bush ; mostly grass. | |
| | | April, 1935 | .15 | 1.25 | .47 | 1.96 | 3.04 | 1.99 | 10.5 | 27.5 | 14.28 | Grass, brown, and bush. | |
| | | July, 1935 | .14 | 1.84 | .34 | .92 | .61 | .64 | .64 | 9.0 | 35.4 | 8.70 | Bush. |
| | | Oct., 1935 | .11 | 1.12 | .48 | 1.69 | 2.14 | 1.39 | 8.4 | 32.2 | 11.92 | Bush. | |
| Springputs (Pella) | Kenhardt..... | Oct., 1934 | .06 | .95 | .32 | 1.08 | .08 | .32 | 5.9 | 37.2 | 4.31 | Grass, brown, and bush. | |
| | | Feb., 1935 | .11 | 1.38 | .23 | 1.35 | .05 | .21 | 7.2 | 35.7 | 5.84 | Grass, mainly brown, and bush ; mostly grass. | |
| | | May, 1935 | .19 | 1.16 | .23 | 1.65 | .35 | .38 | 12.0 | 36.6 | 6.20 | Grass, mainly green, short, and bush. | |
| | | Aug., 1935 | .15 | 1.43 | .25 | 1.98 | .12 | .53 | 9.8 | 31.9 | 7.52 | Bush. | |
| Dabipoort (Pella). | Kenhardt..... | Dec., 1934 | .09 | .59 | .13 | 1.02 | .31 | .17 | 6.0 | 43.5 | 3.49 | Grass, mainly brown, and bush. | |
| | | Mar., 1935 | .073 | .75 | .32 | 1.10 | 1.23 | .20 | 5.9 | 39.5 | 7.26 | Grass, brown, short, and bush ; mostly grass. | |
| | | June, 1935 | .16 | 1.02 | .70 | 2.03 | 1.94 | 1.15 | 9.6 | 27.6 | 11.48 | Bush. | |
| | | Sept., 1935 | .19 | 1.23 | .70 | 2.42 | 1.97 | 1.03 | 8.4 | 26.0 | 15.20 | Bush. | |
| Gabaib (Namucs). | Kenhardt..... | Jan., 1935 | .11 | .60 | .30 | 1.54 | .60 | .40 | 9.1 | 37.7 | 4.99 | Grass, mainly green, and bush. | |
| | | April, 1935 | .095 | 1.20 | .36 | 1.06 | 1.12 | .69 | 7.0 | 32.6 | 7.50 | Grass, mainly brown, short, and bush ; mostly bush. | |
| | | July, 1935 | .15 | .93 | .37 | 1.90 | .14 | .44 | 11.2 | 31.0 | 6.06 | Bush. | |
| | | Oct., 1935 | .12 | 1.09 | .35 | 1.50 | 1.60 | 1.15 | 7.0 | 29.5 | 8.68 | Grass, brown, short, and bush. | |
| Dabeep (Gamoep) | Namaqualand.. | Nov., 1934 | .056 | .50 | .25 | 1.05 | 1.14 | .63 | 5.6 | 36.6 | 5.32 | Grass, brown, and bush. | |
| | | Feb., 1935 | .078 | .76 | .13 | .68 | .78 | .39 | 4.1 | 37.3 | 4.32 | Grass, brown, and bush. | |
| | | May, 1935 | .075 | .31 | .08 | .42 | .13 | .13 | 4.2 | 38.0 | 1.89 | Grass, mainly brown. | |
| | | Aug., 1935 | .22 | 1.03 | .39 | 2.28 | .95 | 1.57 | 11.1 | 26.0 | 8.57 | Bush. | |
| Lekkerdrink (Gamoep) | Namaqualand.. | Dec., 1934 | .064 | .61 | .26 | 1.15 | .75 | .55 | 6.9 | 32.8 | 4.48 | Grass, brown, and bush ; mostly grass. | |
| | | Mar., 1935 | .088 | .68 | .30 | 1.33 | 1.34 | .45 | 7.1 | 38.0 | 7.36 | Bush. | |
| | | June, 1935 | .13 | 1.02 | .34 | 1.28 | 1.11 | .98 | 10.8 | 35.9 | 8.12 | Bush. | |
| | | Sept., 1935 | .15 | .72 | .32 | 1.81 | 1.76 | 1.28 | 9.1 | 31.3 | 9.58 | Grass, brown, and bush. | |
| Wolkraal (Gamoep) | Namaqualand.. | Jan., 1935 | .086 | .84 | .40 | .98 | 2.36 | 1.55 | 6.3 | 32.6 | 11.55 | Grass, mainly brown, and bush ; mostly bush. | |
| | | April, 1935 | .11 | .66 | .24 | .87 | 1.52 | .43 | 6.1 | 35.2 | 6.40 | Grass and bush ; mostly bush. | |
| | | July, 1935 | .16 | .76 | .43 | 1.63 | 1.07 | 1.18 | 8.9 | 30.6 | 7.55 | Grass and bush. | |
| | | Oct., 1935 | .11 | .82 | .29 | 1.88 | 1.42 | .86 | 6.3 | 34.7 | 8.62 | Bush. | |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA 18 (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|------------------------|---------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|------------------------|
| Nakanas (Port Nolloth) | Namaqualand.. | Nov., 1934 | .10 | 1.80 | .53 | 1.52 | 1.50 | 2.58 | 7.3 | 32.3 | 11.46 | Bush. |
| | | Feb., 1935 | .11 | .90 | .43 | 1.69 | 3.82 | 1.89 | 6.2 | 31.2 | 14.80 | Bush. |
| | | May, 1935 | .16 | 1.21 | .60 | 1.85 | 1.80 | 3.18 | 7.5 | 32.4 | 12.40 | Bush. |
| | | Aug., 1935 | .24 | 1.80 | .60 | 2.98 | 2.60 | 4.19 | 14.0 | 25.1 | 15.73 | Bush. |
| | | Nov., 1935 | .11 | 1.98 | .67 | 1.65 | 2.97 | 5.22 | 6.8 | 31.6 | 18.36 | Bush. |
| Ertvank (Springbok) | Namaqualand.. | Dec., 1934 | .093 | 1.14 | .40 | 1.06 | 1.52 | .97 | 6.5 | 31.2 | 9.64 | Bush. |
| | | Mar., 1935 | .16 | 1.12 | .54 | 1.81 | 4.02 | 3.45 | 7.3 | 29.1 | 18.65 | Bush. |
| | | June, 1935 | .14 | 1.19 | .62 | 1.80 | 2.06 | 2.15 | 9.5 | 24.6 | 12.00 | Bush. |
| | | Sept., 1935 | .17 | 1.84 | .48 | 2.81 | 2.95 | 2.78 | 11.0 | 25.8 | 18.90 | Bush. |
| Vaalheuwel (Springbok) | Namaqualand.. | Jan., 1935 | .15 | 1.15 | .35 | 2.26 | 3.28 | 5.80 | 8.8 | 36.1 | 17.65 | Bush. |
| | | April, 1935 | .14 | 1.22 | .71 | 2.06 | 3.21 | 3.49 | 8.3 | 26.0 | 17.30 | Bush. |
| | | July, 1935 | .12 | 1.78 | .57 | 1.54 | 2.68 | 3.67 | 8.7 | 30.2 | 16.67 | Bush. |
| | | Oct., 1935 | .15 | 1.82 | .56 | 1.84 | 2.65 | 4.12 | 8.5 | 31.0 | 16.60 | Bush. |

AREA O.

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | | | |
|------------------|---------------|------------------|---------------|-------------|------|------|-----|------|----------------|--------------|--------------|---------------------------------------|--|--|--------------------------------------|
| The Baries..... | Humansdorp... | Oct., 1933 | .098 | .57 | .20 | 1.48 | .86 | 1.40 | 7.9 | 27.4 | 6.39 | Grass, green, short, and bush. | | | |
| | | Jan., 1934 | .092 | .35 | .15 | 1.38 | .23 | .60 | 7.8 | 33.2 | 3.96 | Grass, mainly green, leafy, and bush. | | | |
| | | May, 1934 | .034 | .40 | .12 | .72 | .09 | .21 | .28 | 5.1 | 34.3 | 2.65 | Grass, short, and bush. | | |
| | | Aug., 1934 | .06 | .57 | — | .75 | .21 | .28 | .37 | 6.1 | 30.4 | 3.48 | Grass, leafy, and bush. | | |
| | | Nov., 1934 | .07 | .41 | — | 1.32 | .22 | .37 | .37 | 8.0 | 34.8 | 3.63 | Grass, short, and bush. | | |
| | | Jan., 1935 | — | .46 | .19 | .82 | .26 | — | — | 6.1 | 35.0 | 3.01 | Grass, green, and bush. | | |
| | | April, 1935 | .084 | .73 | .23 | .70 | .43 | .39 | .39 | 6.2 | 33.2 | 4.09 | Grass, mainly green, and bush. | | |
| | | July, 1935 | .11 | .65 | .24 | .97 | .23 | .37 | .37 | 9.0 | 32.2 | 3.70 | Grass, mainly green, leafy, and bush, mostly bush. | | |
| | | Oct., 1935 | .078 | .75 | .22 | 1.01 | .20 | .33 | .33 | 6.8 | 30.4 | 3.95 | Grass, green, leafy, and bush. | | |
| | | Fairview..... | Humansdorp... | Nov., 1933 | .10 | .34 | .14 | 1.41 | .29 | .80 | 13.7 | 35.0 | 4.30 | Grass, mainly green, and bush; mostly grass. | |
| Feb., 1934 | .056 | | | .43 | .15 | .74 | .27 | .36 | 5.6 | 30.5 | 2.88 | Grass, mainly green, and bush. | | | |
| June 1934 | .07 | | | .65 | .24 | .66 | .56 | .79 | .79 | 9.1 | 29.8 | 4.80 | Grass, mainly brown, short and, bush. | | |
| Sept., 1934 | .087 | | | .63 | .22 | 1.11 | .44 | .64 | .64 | 8.1 | 33.9 | 4.28 | Grass, green, short, and bush. | | |
| Dec. 1934 | .085 | | | .39 | .15 | 1.10 | .41 | .72 | .72 | 7.3 | 35.4 | 3.75 | Grass, green, short, and bush. | | |
| Mar., 1935 | — | | | .48 | .17 | .64 | .23 | — | — | 5.6 | 36.4 | 2.80 | Grass, mainly green, leafy, and bush; mostly bush. | | |
| June, 1935 | .084 | | | .59 | .22 | .94 | .31 | .40 | .40 | 8.5 | 31.0 | 3.63 | Grass, green, short, and bush; mostly bush. | | |
| Klipfontein..... | Humansdorp... | | | Jan., 1934 | .11 | .62 | .19 | 1.43 | .18 | .31 | 9.2 | 28.4 | 4.09 | Grass, green, short, and bush; mostly bush. | |
| | | | | April, 1934 | .12 | .54 | .27 | 1.38 | .20 | .35 | 10.7 | 34.4 | 4.70 | Grass, short, and bush; mostly bush. | |
| | | | | July, 1934 | .064 | .84 | .15 | .93 | .12 | .22 | .22 | 7.5 | 33.1 | 3.86 | Grass, short, and bush; mostly bush. |
| | | Oct., 1934 | .10 | .64 | .19 | .94 | .15 | .24 | .24 | 7.0 | 29.8 | 3.51 | Grass, green, short, and bush. | | |
| | | Feb., 1935 | .07 | .65 | .25 | 1.08 | .35 | .44 | .44 | 7.3 | 34.4 | 4.32 | Grass, mainly green, and bush; mostly bush. | | |
| | | May, 1935 | .11 | .48 | .17 | .98 | .15 | .13 | .13 | 8.0 | 34.1 | 3.10 | Grass, mainly green, leafy, and bush. | | |
| | | Groothoek No. 2. | George..... | Oct., 1934 | .11 | .40 | .17 | 1.24 | .30 | .59 | 8.7 | 37.2 | 3.78 | Grass, green, and bush; mostly grass. | |
| | | | | April, 1935 | .052 | .26 | .12 | .40 | .12 | .13 | 3.6 | 35.1 | 1.72 | Grass, leafy. | |
| | | | | July, 1935 | .10 | .31 | .14 | .82 | .08 | .30 | .30 | 7.2 | 36.8 | 2.96 | Grass, mainly green, short. |
| | | | | Oct., 1935 | .12 | .32 | .16 | .94 | .19 | .45 | .45 | 7.4 | 36.2 | 3.17 | Grass, mainly green, leafy. |

FEEDING VALUE OF PASTURES IN SOUTH AFRICA.

AREA O (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. | |
|-------------------------|-----------------|-------------|------|------|-----|------|-------|------|----------------|--------------|--------------|---|-----------------------------|
| Eastbrooke..... | George..... | Nov., 1934 | .092 | .22 | .08 | .80 | .02 | .11 | 6.5 | 34.7 | 1.87 | Grass, mainly green. | |
| | | Feb., 1935 | .089 | .40 | .10 | .69 | .09 | .20 | .20 | 5.9 | 34.0 | 2.07 | Grass, leafy. |
| | | Aug., 1935 | .056 | .25 | .10 | .33 | .04 | .13 | .13 | 5.2 | 33.4 | 1.76 | Grass, mainly brown, short. |
| Kraaibos..... | George..... | Mar., 1935 | .07 | .27 | .13 | .70 | .07 | .13 | 5.1 | 36.7 | 1.97 | Grass, mainly green, short. | |
| | | June, 1935 | .074 | .28 | .13 | .70 | .03 | .21 | .21 | 5.4 | 33.6 | 2.19 | Grass, mainly green, short. |
| | | Sept., 1935 | .073 | .37 | .13 | .72 | .16 | .34 | .34 | 6.4 | 27.8 | 2.85 | Grass, green, short. |
| Witvlei..... | Piquetberg..... | April, 1934 | .11 | .58 | .26 | 1.82 | 1.28 | 1.65 | 9.4 | 27.4 | 8.10 | Bush. | |
| | | Aug., 1934 | .40 | 1.12 | .37 | 3.44 | 1.20 | 2.12 | 21.5 | 16.1 | 12.85 | Bush. | |
| | | Nov., 1934 | .16 | .64 | — | 1.64 | 1.92 | 1.81 | 10.6 | 30.8 | 9.26 | Bush. | |
| | | April, 1935 | .11 | .70 | — | 1.54 | 1.80 | 1.14 | 10.9 | 27.2 | 8.71 | Grass and bush; mostly bush. | |
| | | Aug., 1935 | .34 | 1.00 | .30 | 2.90 | 1.12 | 1.47 | 19.3 | 21.4 | 9.94 | Bush. | |
| | | Oct., 1935 | .21 | .72 | .25 | 1.86 | 1.06 | 1.83 | 10.0 | 31.7 | 7.75 | Grass, mainly green, and bush. | |
| Waschklip..... | Hopefield..... | April, 1934 | .13 | 1.31 | .41 | 1.42 | 1.08 | 2.13 | 8.2 | 26.4 | 9.10 | Bush. | |
| | | Aug., 1934 | .40 | .45 | .17 | 1.59 | .03 | 2.70 | 18.3 | 16.9 | 14.45 | Bush. | |
| | | Oct., 1934 | .25 | 1.64 | — | 1.88 | 1.40 | 2.37 | 10.6 | 26.0 | 11.00 | Bush. | |
| | | Feb., 1935 | .21 | 1.37 | — | 1.85 | 2.76 | 4.41 | 10.3 | 26.9 | 14.10 | Bush. | |
| | | May, 1935 | .20 | 1.67 | — | 1.97 | 1.60 | 2.46 | 14.3 | 27.7 | 11.96 | Grass and bush; mostly bush. | |
| | | July, 1935 | .33 | 1.57 | .71 | 2.22 | 1.68 | 3.16 | 17.8 | 18.3 | 13.35 | Bush. | |
| Malmesbury Commonage | Malmesbury.... | Nov., 1935 | .26 | 1.52 | .55 | 1.58 | .93 | 1.79 | 10.9 | 28.7 | 10.00 | Bush. | |
| | | Dec., 1934 | .09 | .21 | .12 | 1.51 | trace | .25 | 7.9 | 34.5 | 2.97 | Grass, green, leafy. | |
| | | May, 1935 | .07 | .27 | .12 | .64 | .22 | .28 | .28 | 5.8 | 43.5 | 2.4 | Bush. |
| Kransvlei..... | Clanwilliam ... | Sept., 1935 | .31 | 1.07 | .30 | 3.16 | .65 | 1.06 | 15.6 | 24.7 | 9.36 | Bush. | |
| | | Oct., 1935 | .14 | 1.03 | .25 | 1.86 | .47 | 1.07 | 8.0 | 37.8 | 7.02 | Bush. | |
| | | Nov., 1934 | .14 | .25 | .18 | 1.40 | .65 | 1.25 | 6.7 | 37.7 | 4.95 | Grass. | |
| Vlei Estates..... | Clanwilliam.... | Feb., 1935 | .13 | .18 | .14 | .93 | .52 | .74 | 4.0 | 36.1 | 3.38 | Grass. | |
| | | May, 1935 | .11 | .42 | .19 | 1.45 | .34 | .48 | 8.2 | 32.7 | 4.06 | Grass, mainly green, and bush; mostly grass. | |
| | | Aug., 1935 | .21 | 1.10 | .24 | 2.43 | 1.07 | 1.66 | 14.5 | 21.5 | 9.02 | Bush. | |
| Vlei Estates..... | Clanwilliam.... | Dec., 1934 | .16 | .45 | .16 | 1.58 | 1.06 | 1.20 | 8.7 | 31.3 | 5.82 | Grass, leafy, and bush. | |
| | | Mar., 1935 | .09 | .32 | .16 | 1.37 | .52 | .10 | 6.7 | 36.7 | 4.42 | Grass, mainly green. | |
| | | June, 1935 | .11 | .50 | .21 | 1.23 | .48 | .77 | 10.0 | 31.8 | 4.50 | Grass, mainly green. | |
| | | Sept., 1935 | .23 | .71 | .24 | 2.04 | .60 | 1.08 | 13.4 | 30.3 | 7.00 | Grass, green, leafy, and bush; mostly grass. | |

AREA O (continued).

| Farm. | District. | Date. | P. | Ca. | Mg. | K. | Na. | Cl. | Crude Protein. | Crude Fibre. | Soluble Ash. | Description of Sample. |
|-------------------|-----------------|-------------|------|------|-----|------|------|------|----------------|--------------|--------------|--|
| Patsyvele..... | Clanwilliam.... | Jan., 1935 | .21 | .25 | .25 | 2.02 | .28 | 1.15 | 9.1 | 34.2 | 4.99 | Grass, green, leafy. |
| | | April, 1935 | .19 | 1.16 | .52 | 2.43 | .88 | 1.30 | 11.4 | 30.1 | 8.90 | Grass and bush. |
| | | July, 1935 | .16 | 1.16 | .58 | 1.20 | 1.21 | 2.25 | 13.4 | 29.3 | 10.37 | Bush. |
| | | Oct., 1935 | .14 | .77 | .27 | 1.35 | .74 | .97 | 10.6 | 26.8 | 5.88 | Grass, green, and bush. |
| Swartboskraal.... | Clanwilliam.... | Nov., 1934 | .11 | .39 | .15 | .98 | .22 | .42 | 6.4 | 34.3 | 3.15 | Grass, brown, and bush; mostly grass. |
| | | Feb., 1935 | .06 | .32 | .10 | .60 | .14 | .23 | 4.4 | 34.8 | 2.18 | Bush. |
| | | May, 1935 | .096 | .31 | .18 | .79 | .35 | .43 | 7.0 | 30.5 | 2.93 | Grass, mainly brown, and bush. |
| | | Aug., 1935 | .19 | .99 | .36 | 2.44 | .60 | .94 | 12.5 | 30.1 | 7.77 | Bush. |
| Mariendal..... | Clanwilliam.... | Dec., 1934 | .088 | .49 | .14 | .99 | .30 | .45 | 6.5 | 38.6 | 3.46 | Grass and bush. |
| | | Mar., 1935 | .082 | .46 | .17 | .79 | .24 | .34 | 5.5 | 43.4 | 3.46 | Bush. |
| | | June, 1935 | .09 | .46 | .19 | .97 | .35 | .64 | 8.6 | 34.4 | 3.68 | Grass, mainly green, and bush; mostly grass. |
| | | Sept., 1935 | .21 | .87 | .48 | 2.48 | 1.39 | 1.96 | 13.9 | 27.2 | 10.74 | Bush. |
| Wadrift..... | Clanwilliam.... | Jan., 1935 | .19 | .74 | .58 | 1.47 | .51 | .97 | 8.3 | 26.3 | 6.54 | Bush. |
| | | April, 1935 | .17 | 1.02 | .40 | 1.49 | 1.08 | 1.38 | 9.4 | 33.7 | 8.16 | Bush. |
| | | July, 1935 | .31 | 1.75 | .45 | 2.42 | 1.14 | 2.46 | 18.0 | 26.0 | 12.15 | Bush. |
| | | Oct., 1935 | .25 | 1.31 | .38 | 1.85 | 1.41 | 2.18 | 11.8 | 23.2 | 10.33 | Grass, green, leafy, and bush; mostly bush. |