

Table 5.—Analyses of Cocksfoots (averaged).

The figures are percentages on the material dried to constant weight on water bath.

Number of Samples averaged.	Ash.	SiO ₂ .	Fe ₂ O ₃ .	P ₂ O ₅ .	CaO.	MgO.	Mn ₃ O ₄ .	N.	Fusion Al ₂ O ₃ .	Al ₂ O ₃ .	Type of Soil.	Locality.
<i>Uncontaminated and Unmanured.</i>												
8	10.72	2.55	0.014	0.46	0.50	0.43	0.034	..	..	0.043	Fine gravelly sand	Te Pu, Kaharoa, Kapakapa.
11	10.27	2.26	0.014	0.50	0.46	0.40	0.034	..	..	..	Sandy silt	Mamaku.
3	10.90	2.36	0.014	0.65	0.44	0.41	0.042	..	..	..	Coarse sand	Ngongotaha lakeside and stream-side.
7	11.30	2.91	0.019	0.61	0.52	0.53	0.028	..	..	..	Sandy loam	Oturoa.
6	10.83	3.42	0.017	0.53	0.43	..	0.021	..	0.030	0.019	Calcareous sandy loam	Te Ngae Road.
1	10.88	3.00	0.034	..	0.38	0.42	0.027	..	..	..	Clay loam	Te Kauwhata } External districts.
3	10.74	1.82	0.029	0.70	0.40	0.48	0.015	..	0.028	0.034	Loam	Karori
<i>Uncontaminated and Manured.</i>												
10	11.12	2.59	0.020	0.87	0.64	0.46	0.031	..	..	..	Various pumice soils	Omanawa, Kaharoa, Rotorua.
<i>Contaminated and Unmanured.</i>												
1	13.16	5.30	0.042	0.44	0.46	..	0.016	..	0.027	0.061	Calcareous sandy loam	Te Ngae (washed).
1	13.54	5.40	0.046	0.47	0.41	..	0.017	..	0.145	0.095	Calcareous sandy loam	Te Ngae (same sample as above, but not washed).
4	10.39	2.94	0.012	0.50	0.33	..	0.026	..	..	..	Sandy silt	Tauranga and Omanawa.
2	12.15	2.53	0.021	0.87	0.73	0.46	0.023	..	0.052	0.082	Sandy silt and coarser	Mamaku and Kapakapa Road.
5	10.90	3.26	0.017	0.62	0.62	0.41	0.027	..	..	..	Coarse sand	Ngongotaha lakeside and Mokoia Island.
4	12.90	3.16	0.017	0.50	0.80	0.44	..	..	..	..	Calcareous sandy loam	Te Ngae.
1	14.50	3.04	0.074	1.13	0.47	..	0.023	..	0.045	0.122	Loam	Karori (external district).

NOTE.—In the case of the cocksfoots the residue of the ash, insoluble in hydrochloric acid, has been fused with sodic carbonate to obtain the silica in the pure state.

—Analyses by B. C. Aston and I. Cunningham.