

*Productive Manure. (Manufactured in Dunedin).**Analysis.*

	Laboratory No. 830.*	Laboratory No. 831.†
Organic matter and moisture	32·88	26·90
Silica and insoluble matter	7·86	14·46
Monocalcic phosphate	Nil	Nil
Dicalcic phosphate	Nil	Nil
Tricalcic phosphate	13·53	14·17
Calcic sulphate	22·77	14·75
Ferric and aluminic phosphates	3·20	...
Calcic carbonate	15·66	28·83
Potash	0·25 }	0·89
Loss and undetermined	3·85 }	
	100·00	100·00

* Containing nitrogen, 0·42; value per ton, £2 1s. 6d.

† Containing nitrogen, 1·09; value per ton, £2 4s. 6d.

This manure is advertised with the following analysis:—

Free moisture	14 per cent.
Combined water and organic matter (containing nitrogen equal to 3·87 per cent. of ammonia)	16 "
Dry sulphate of lime	30 "
Soluble phosphate of lime (equal to 10·7 of insoluble phosphate)	8·1 "
Insoluble phosphate of lime	6 "
Carbonate of lime... ..	8 "
Sulphide of lime	2 "
Slaked lime	1·9 "
Potash salts	2 "
Earthy matter (clay, sand, &c.)	13 "

101

The manure may have been prepared with the best intention of producing an article similar to that of which the analysis is published, but the effect of caustic lime (probably gas-lime) used in its preparation has been to reduce the phosphates and liberate the nitrogen. It may be again mentioned that the presence of caustic lime is incompatible with the existence of either monocalcic phosphate or nitrogen.

*Soot, L.N. 253.**Analysis.*

A fair sample of soot.

Moisture	7·55
Organic matter	39·15, containing nitrogen, 2·10.
Silica	39·14
Ferric and aluminic oxides	5·73
Calcic oxide	3·16
Phosphoric anhydride	0·42
Sulphuric "	2·50
Alkalies, &c.	2·35

100·00

Value, £1 15s. per ton.

Mixed Manure, L.N. 254.

A combination of soot, vegetable-matter, sand, and bonedust.

Analysis.

Moisture	10·5
Organic matter	31·6, containing nitrogen, 2·30.
Silica	31·1
Tricalcic phosphate	18·4
Calcic carbonate	7·1
Alkalies, &c.	1·3

100·00

Value, £2 17s. per ton.

Bonedust, L.N. 973.

This manure was sold as a bonedust, but from its analysis it is shown to be adulterated with about one-fifth its weight of carbonate of lime. Probably Chesterfield guano has been added.