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Numerical Results of the Field Experiments 1968

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68/C/35 Forms of Magnesium on Sugar Beet

Rothamsted Research

Rothamsted Research (1970) *68/C/35 Forms of Magnesium on Sugar Beet* ; Numerical Results Of The Field Experiments 1968, pp 261 - 262 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/c/35.1

FORMS OF MAGNESIUM

(WCU)

Effects of forms of magnesium fertiliser on sugar beet - Woburn
Stackyard C, 1st year.

Design: 4 randomised blocks of 8 plots.

Area of each plot: 0.0072. Area harvested: 0.0039.

Treatments:

Without limestone (Magnesium free): None (0), 200 lb Mg as dolomitic limestone (D2), 100 lb Mg as Epsom salts (E), 100 lb Mg as calcined magnesite (C1), 200 lb Mg as calcined magnesite (C2).

With limestone (Magnesium free): 100 lb Mg as dolomitic limestone plus 7.5 cwt limestone (D1L1), 15 cwt limestone (L2), 100 lb Mg as Epsom salts plus 15 cwt limestone (E1L2).

Basal applications: 745 lb (15:15:15). Insecticide: Demeton-s-methyl at 3.5 oz in 37 gals.

Cultivations, etc.: Subsoiled twice: 7 July, 1967. Deep-tine cultivated: 11 July. Ploughed: 13 Nov. Mg and limestone treatments applied: 15 Feb, 1968. NPK applied: 20 Mar. Seed drilled at 8 lb: 25 Mar. Singled: 15 - 31 May. Insecticide applied: 17 June. Lifted: 9 Dec. Variety: Klein E. Previous crops: Fallow 1966 and 1967.

Standard errors per plot.

Roots (washed): 1.184 or 9.9% (21 d.f.)
Total sugar: 3.97 or 10.7% (21 d.f.)
Tops: 1.000 or 14.3% (21 d.f.)

68/c/35.2

SUMMARY OF RESULTS

O	D2	E	C1	C2	D1L1	L2	E12	Mean
ROOTS (WASHED)								
(±0.592)								
7.77	14.01	10.39	10.61	12.76	13.47	12.30	14.03	11.92
SUGAR %								
15.3	15.7	15.4	15.5	15.7	15.7	15.6	15.5	15.6
TOTAL SUGAR								
(±1.99)								
24.1	44.1	32.1	32.9	40.2	42.4	38.3	43.6	37.2
TOPS								
(±0.500)								
5.79	7.84	6.66	6.42	6.89	7.35	7.09	7.81	6.98