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00/W/CS/482 Diagnosis of S Deficiency - Potatoes

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00/W/CS/482

DIAGNOSIS OF S DEFICIENCY

Object: To develop reliable diagnostic methods for the prediction of sulphur deficiency - Woburn, Butt Close I.

Sponsors: F.J. Zhao, M.M.A. Blake-Kalff, S.P. McGrath.

The third year, potatoes.

For previous year see 98-99/W/CS/482.

Design: 4 randomised blocks of 6 plots.

Plot dimensions: 3.0 x 12.0.

Treatments:-

SULPHUR	Kg of sulphur as gypsum (17.5% S):
S0	None
S1	5
S2	10
S3	20
S4	40
S5	80

Experimental diary:

06-Sep-99 : B : : Ploughed and furrow pressed.
08-May-00 : B : : PDQ at 4.0 l in 200 l.
10-May-00 : B : : Rotaspiked. Planted Estima, tr. Fungazil 100 SL, at 30 cm spacing in 75 cm rows.
25-May-00 : B : : 34.5% N at 435 kg.
08-Jun-00 : T : S1,S2,S3,S4,S5 : Gypsum at 29, 57, 114, 229 and 457 respectively.
 : B : : Rota-ridged.
21-Jun-00 : B : : Shirlan at 300 ml in 200 l.
26-Jun-00 : B : : tm)Shirlan at 300 ml in 200 l.
 : B : : tm)Aphox at 280 g in 200 l.
28-Jun-00 : B : : tm)Titus at 50 g in 200 l.
 : B : : tm)Enhance Low Foam at 200 ml in 200 l.
06-Jul-00 : B : : tm)Shirlan at 300 ml in 200 l.
 : B : : tm)Plenum at 0.6 kg in 200 l.
12-Jul-00 : B : : Shirlan at 300 ml in 200 l.
22-Jul-00 : B : : Shirlan at 300 ml in 200 l.
02-Aug-00 : B : : Shirlan at 300 ml in 200 l.
24-Aug-00 : B : : Keytin at 0.5 l in 200 l.
14-Sep-00 : B : : Potatoes lifted.

NOTE: Plant leaves were sampled in June and tubers at harvest for sulphur content.

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TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

SULPHUR

S0	25.8
S1	30.0
S2	25.7
S3	26.9
S4	30.5
S5	27.2

Mean 27.7

*** Standard errors of differences of means ***

SULPHUR

1.67

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	2.36	8.5

PERCENTAGE WARE 4.0 CM RIDDLE

***** Tables of means *****

SULPHUR

S0	76.8
S1	80.5
S2	78.5
S3	81.1
S4	79.0
S5	78.2

Mean 79.0

PLOT AREA HARVESTED 0.00180