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66/R/RP3/1/DD/2 and 66/W/WP201/DD/2 Potatoes - Soil Fungicides

Rothamsted Research

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66/Da/2.1

POTATOES

(RP 3/1 and WP 201)

Soil fungicides and blight - Rothamsted (R) Fosters West Side and Woburn (W) Butt Close 1966.

Design: 6 randomised blocks of 10 plots.

Area of each plot: 0.0043. Area harvested: 0.0021.

Treatments: Fungicides: None (O) and the following combinations of materials and forms and times of application:-

TaS1	TaS2	TaF
TcS1	TcS2	
	DS2	DF
	ZS2	ZF

- Ta - Triphenyltin acetate
Tc - Triphenyltin chloride, both at 0.18 lb of metallic Sn, equivalent to 0.6 lb triphenyltin acetate
D - Tetrachloro-iso-phthalonitrile at 5 lb
Z - Zineb at 3 lb
S1 - Applied as dust in 210 - 220 lb kaolin lightly forked into the soil in May
S2 - As S1 but in June
F - Applied as foliar spray at first foliage blight as a wettable powder in 100 gals of water.

Basal applications:

Fosters West Side (R): 13.5 tons dung. 7.75 cwt (17:11:22).
Butt Close (W): 10 tons dung. 7 cwt (17:11:22).
Weedkiller (both fields): Linuron at 1 lb plus paraquat at 0.75 lb ion in 37 gals.

Cultivations, etc.:

Fosters West Side (R): Dung applied: Jan 12, 1966. Ploughed: Jan 14. Basal NPK applied: Mar 29. Rotary cultivated, potatoes planted: Apr 7. Weedkiller applied: May 10. Fungicides applied: S1 plots - May 25, S2 plots - June 20, foliar spray (F) - Aug 2. Haulm destroyed mechanically: Sept 22. Lifted: Sept 26. Variety: King Edward. Previous crops: Kale and spring wheat 1964, barley 1965.

66/Da/2.2

Butt Close (W): Deep-tine cultivated: Sept 16, 1965. Ploughed:
Nov 15. Dung applied: Jan 11, 1966. Ploughed 2nd time:
Jan 28. Basal NPK applied: Mar 23. Rotary cultivated,
potatoes planted: Mar 30. Weedkiller applied: May 7.
Fungicides applied: S1 plots - May 17, S2 plots - June 27. Haulm
destroyed mechanically: Sept 7. Lifted: Sept 19. (W) variety
Variety: King Edward. Previous crops: Barley 1964,
fallow 1965.

NOTES: (1) Butt Close (W): The haulm became yellow before blight
appeared and no foliar sprays (F) were applied.
(2) On Fosters West Side (R) tubers were examined at harvest
for blight infection. There was no blight on the Butt Close (W)
experiment.

Standard errors per plot. Total tubers:
Fosters West Side (R): 1.332 or 8.0% (45 d.f.)
Butt Close (W): 2.122 or 13.1% (45 d.f.)

SUMMARY OF RESULTS

	0	TaS1	TaS2	TaF	TcS1	TcS2	DS2	DF	ZS2	ZF	Mean
TOTAL TUBERS											
FOSTERS WEST SIDE (R)											
Mean (± 0.544)	16.47	16.20	16.34	17.65	16.50	16.11	16.56	16.22	16.38	17.61	16.60
BUTT CLOSE (W)											
Mean (± 0.866)	16.50	16.43	15.90	14.62	17.14	16.63	16.34	15.31	16.16	16.49	16.15
% WARE											
FOSTERS WEST SIDE (R)											
Mean	94.5	94.2	94.6	94.7	93.9	93.7	94.0	94.4	95.1	93.4	94.3
BUTT CLOSE (W)											
Mean	79.5	78.7	79.7	76.5	77.7	80.9	79.5	77.0	80.9	78.4	78.9

66/Da/2.3

NOTE: Butt Close (w) F not applied