

FIELD EXPERIMENTS 19  
68WEED CONTROL EXPERIMENTS

EXPERIMENT: Poliverdal Foliar Feed      SITE: Clampe Close (H)  
SOIL TYPE: sandy clay loam

TREATMENTS AND LAYOUT: Randomised block with 6 replicates

- A. Untreated
- B. Poliverdal 1.5 pints prod./acre applied twice
- C.                   "                   applied 4 times
- D.                   "                   applied 6 times

Treatments B, C, D had the addition of the wetter

Manoxol at 4 fl.ozs/50 gals. water

MAJOR INDIGENOUS WEED SPECIES: -

PLOT SIZE: Treatment: 4 rows x 12 yards  
Harvest: Two 30" rows x 10 yards

MANURING OF EXPERIMENTAL CROP: 9 cwt/acre 13: 13: 20 giting 117: 117: 180

PREVIOUS CROPPING: 1966- spring barley  
1967- spring barley

CULTIVATIONS: -

DRILLING: Date: 29 and 30 March  
Seed: Pentland Crown (Irish)  
Seed spacing: -  
Drill: -

SPRAYING:

Date: 17 June - treatments B,C,D.

Soil condition (previous weather): -

Weather conditions during spraying:

Equipment and method adopted: <sup>No wind</sup> Oxford Precision Sprayer 30 psi, 50 gpa,  
Birchmeier nozzles 1.6 -673a (fine)

Order of spraying: -

Chemicals:

Poliverdol (ex Midax)

State of weeds: -

State of ~~XXXX~~ potatoes: 6 - 12" high, 15-18" between the foliage between rows

CONDITIONS AFTER SPRAYING:

Week	1	2	3	4	Total
Rainfall (inches)	0.39	2.56	0.24	2.02	5.21

~~XXXXXXXXXXXXXXXXXXXX~~

Date: -

Method: -

HARVEST: Date: 17 October with Whitted harvester

~~XXXXXXXXXXXXXXXXXXXX~~ Tiddled: 18 October

GENERAL OBSERVATIONS: Very wet season and some water logging and blight which reduced yields seriously.

SPRAYING:

Date: 2 July - treatments B,C,D.

Soil condition (previous weather): -

Weather conditions during spraying: Wind force 2 -3, SSE.

Equipment and method adopted: ~~Wentworth sprayer~~ 35 psi, 50 gpa  
Birchmeier nozzles 1.6 - 673a (fine)

Order of spraying: -

Chemicals: -

State of weeds: -

State of ~~weeds~~ potatoes: 15-18" high, flowering and just meeting in the row

CONDITIONS AFTER SPRAYING:

Week	1	2	3	4	Total
Rainfall (inches)	0.53	1.86	0.48	0.02	2.89

No rain for 5 days after spraying

WEED AND BEETLE COUNTS:

Date: -

Method: -

HARVEST: Date: See 17 June spraying

~~Washed and counted weeds~~

GENERAL OBSERVATIONS: -

SPRAYING:

Date: 19 July - treatments C and D

Soil condition (previous weather): -

Weather conditions during spraying: Wind force 2 - 3, NW  
Equipment and method adopted: Oxford Precision Sprayer 30 psi, 50 gpa,  
Birchmeier nozzles 1.6 -673a (fine)

Order of spraying: -

Chemicals: -

State of weeds: -

State of ~~wheat~~ potatoes: 5 - 15% blight on foliage

CONDITIONS AFTER SPRAYING:

Week	1	2	3	4	Total
Rainfall (inches)	0.34	0.01	2.77	0.64	3.76

No rain for 1 day after spraying

~~WEED CONTROL ACCOUNTS:~~

Date: -

Method: -

HARVEST: Date: See 17 June spraying

~~Yield and quality:~~

GENERAL OBSERVATIONS: -

SPRAYING:

Date: 25 July - treatments C and D

Soil condition (previous weather): -

Weather conditions during spraying: wind force 1, "

Equipment and method adopted: Oxford Precision Sprayer 30 psi, 50 gpa,  
Bircmeier nozzles 1.6-673a (fine)

Order of spraying: -

Chemicals: -

State of weeds: -

State of ~~beet~~ potatoes: 40-50% blight on foliage

CONDITIONS AFTER SPRAYING:

Week	1	2	3	4	Total
Rainfall (inches)	0.01	2.14	1.15	0.89	4.19

No rain for 3 days after spraying

WEED AND BEET COUNTS:

Date: -

Method: -

HARVEST: Date: see 17 June spraying

~~Methods used and results~~

GENERAL OBSERVATIONS: -

SPRAYING:

Date: 30 July - treatment D

Soil condition (previous weather): -

Weather conditions during spraying: wind force 2-3, N.E.

Equipment and method adopted: Oxford Precision Sprayer 30 psi, 50 gpa,  
Birchmeier nozzles 1.6 - 673a (fine)

Order of spraying: -

Chemicals: -

State of weeds: -

State of ~~XXXX~~ potatoes: approximately 75% blight on foliage.

CONDITIONS AFTER SPRAYING:

Week	1	2	3	4	Total
Rainfall (inches)	1.58	1.37	1.25	0.00	4.18

No rain for 3 days after spraying

WEED AND BEET COUNTS

Date: -

Method: -

HARVEST: Date: see 17 June spraying

Washed and analysed  
~~XXXXXXXXXX~~

GENERAL OBSERVATIONS: -

SPRAYING:

Date: 12 August - treatment D

Soil condition (previous weather): \_

Weather conditions during spraying: No wind

Equipment and method adopted: Oxford Precision Sprayer 35 psi, 50 gpa,  
Birchmeier nozzles 1.6-87's (fine)

Order of spraying: \_

Chemicals: \_

State of weeds: \_

State of ~~beet:~~ potatoes: 75 + % blight on foliage

CONDITIONS AFTER SPRAYING:

Week	1	2	3	4	Total
Rainfall (inches)	1.13	0.23	0.58	0.21	2.15

0.13 inches of rain on the day of spraying

WEED AND BEET COUNTS:

Date: \_

Method: \_

HARVEST: Date: See 17 June spraying

~~Washed and analysed:~~

GENERAL OBSERVATIONS: \_

COLLIVE DOL FOLLAR FEED ON POTATOES - MORLEY, 1968

Yields when harvested on 17 October, 1968

Number of applications of Poliverdol at 1.5 pints prod/acre	Yields and proportion of total yield of various tuber grades							Total Yield tons/acre
	Tubers over 2.0 inches tons/acre	Tubers over 2.0 inches %	Tubers 1.75-2.0 inches tons/acre	Tubers 1.75-2.0 inches %	Tubers under 1.75 inches tons/acre	Tubers under 1.75 inches %	Large tubers (over 1.75 inches) tons/acre	
0	3.08	53.0	1.69	29.5	0.97	17.6	4.76	5.73
2	3.93	57.5	1.94	29.5	0.83	13.0	5.87	6.70
4	3.67	54.9	1.91	29.6	0.96	15.5	5.59	6.55
6	3.53	52.6	1.93	30.1	1.05	17.2	5.47	6.51
Sig. Diff. P = 0.05	N.S.	N.S.	N.S.	N.S.	0.2	N.S.	N.S.	N.S.
Standard Error per Plot	36.3%	16.1%	22.8%	12.9%	12.5%	35.3%	30.2%	25.8%