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68/DE/6 Coiled Sprout and Verticillium Nubilum - Potatoes

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68/De/6.1

POTATOES

(RP 6/1)

Coiled sprout and *Verticillium nubilum* - Great Harpenden II 1968.

Design (each variety): 4 blocks of 2 split into 6.

Area of each sub plot: 0.0029. Area harvested: 0.0029.

Treatments: 4 blocks of Arran Pilot, 4 of Pentland Dell. All combinations of:-

- Whole plots: 1. Weed control: By cultivation (see below under 'Cultivations etc.') (WO), by pre-emergence weedkiller (Paraquat at 0.5 lb ion plus linuron at 0.75 lb in 36 gals) (WW).
- Sub plots: 2. Seed treatment (seed of the same stock, differentially chitted): Chitted, coil prone (CP), chitted non-coil prone (CO), unchitted, non-coil prone (OO).
3. Fungus inoculation: Seed tubers dipped in water (O), dipped in suspension of *Verticillium nubilum* (F).

Basal applications: 3 tons ground chalk, 7 tons FYM, 8 cwt (13:13:20).
Fungicide: Mancozeb at 1.2 lb in 40 gals on 3 occasions.

Cultivations, etc.: FYM applied: 8 Dec, 1967. Ground chalk applied, plots ploughed: 20 Dec. Basal NPK compound applied: 20 - 27 Mar, 1968. Rotary cultivated, potatoes planted, rotary ridged: 22 Apr. WO plots chain-harrowed: 23 Apr. Weedkiller applied to WW plots: 6 May. WO plots grubbed: 20 May, mechanically weeded: 24 May, rotary ridged: 28 May, grubbed: 7 June, rotary ridged: 10 June. WW plots grubbed: 17 June. WW plots ridged with ridging bodies (Pentland Dell plots only): 18 June. Sprayed with mancozeb: 5 July, 22 July, 5 Aug. Sprayed with undiluted BOV at 15 gals: 21 Aug. Lifted (Pentland Dell only): 16 Oct.
Previous crops: Grass 1959 - 67.

NOTE: No yields were taken from the Arran Pilot plots which were sampled fortnightly to assess the rate of bulking and incidence of coiled sprout and *Verticillium nubilum*.

Standard errors per sub plot.
Total tubers: 1.097 or 8.5% (30 d.f.)

68/De/6.2

SUMMARY OF RESULTS

PENTLAND DELL

	CP	CO	OO	O	F	Mean
TOTAL TUBERS						
	(±0.388)*		(±0.317)*			(±0.306)
WO	10.27	15.20	13.37	13.65	12.25	12.95
WW	9.25	16.28	13.17	13.42	12.38	12.90
			(±0.388)			(±0.274)
	CP		10.09	9.44		9.76
	CO		16.97	14.51		15.74
	OO		13.53	13.00		13.27
Mean (±0.224)			13.53	12.32		12.92

* For use in horizontal and interaction comparisons only

68/De/6.3

PENTLAND DELL						
	CP	CO	OO	O	F	Mean
	% WARE					
O	96.8	98.0	93.4	96.0	96.1	96.1
W	97.1	98.6	93.4	96.6	96.2	96.4
		CP		97.0	96.9	97.0
		CO		98.4	98.2	98.3
		OO		93.5	93.2	93.4
Mean				96.3	96.1	96.2

L. (1911)

L. (1911)

Year	1	2	3	4	5
1.00	1.30	2.00	3.00	4.00	5.00
1.30	1.60	2.30	3.30	4.30	5.30
1.60	1.90	2.60	3.60	4.60	5.60
1.90	2.20	2.90	3.90	4.90	5.90
2.20	2.50	3.20	4.20	5.20	6.20
2.50	2.80	3.50	4.50	5.50	6.50
2.80	3.10	3.80	4.80	5.80	6.80
3.10	3.40	4.10	5.10	6.10	7.10
3.40	3.70	4.40	5.40	6.40	7.40
3.70	4.00	4.70	5.70	6.70	7.70
4.00	4.30	5.00	6.00	7.00	8.00
4.30	4.60	5.30	6.30	7.30	8.30
4.60	4.90	5.60	6.60	7.60	8.60
4.90	5.20	5.90	6.90	7.90	8.90
5.20	5.50	6.20	7.20	8.20	9.20
5.50	5.80	6.50	7.50	8.50	9.50
5.80	6.10	6.80	7.80	8.80	9.80
6.10	6.40	7.10	8.10	9.10	10.10
6.40	6.70	7.40	8.40	9.40	10.40
6.70	7.00	7.70	8.70	9.70	10.70
7.00	7.30	8.00	9.00	10.00	11.00
7.30	7.60	8.30	9.30	10.30	11.30
7.60	7.90	8.60	9.60	10.60	11.60
7.90	8.20	8.90	9.90	10.90	11.90
8.20	8.50	9.20	10.20	11.20	12.20
8.50	8.80	9.50	10.50	11.50	12.50
8.80	9.10	9.80	10.80	11.80	12.80
9.10	9.40	10.10	11.10	12.10	13.10
9.40	9.70	10.40	11.40	12.40	13.40
9.70	10.00	10.70	11.70	12.70	13.70
10.00	10.30	11.00	12.00	13.00	14.00
10.30	10.60	11.30	12.30	13.30	14.30
10.60	10.90	11.60	12.60	13.60	14.60
10.90	11.20	11.90	12.90	13.90	14.90
11.20	11.50	12.20	13.20	14.20	15.20
11.50	11.80	12.50	13.50	14.50	15.50
11.80	12.10	12.80	13.80	14.80	15.80
12.10	12.40	13.10	14.10	15.10	16.10
12.40	12.70	13.40	14.40	15.40	16.40
12.70	13.00	13.70	14.70	15.70	16.70
13.00	13.30	14.00	15.00	16.00	17.00
13.30	13.60	14.30	15.30	16.30	17.30
13.60	13.90	14.60	15.60	16.60	17.60
13.90	14.20	14.90	15.90	16.90	17.90
14.20	14.50	15.20	16.20	17.20	18.20
14.50	14.80	15.50	16.50	17.50	18.50
14.80	15.10	15.80	16.80	17.80	18.80
15.10	15.40	16.10	17.10	18.10	19.10
15.40	15.70	16.40	17.40	18.40	19.40
15.70	16.00	16.70	17.70	18.70	19.70
16.00	16.30	17.00	18.00	19.00	20.00
16.30	16.60	17.30	18.30	19.30	20.30
16.60	16.90	17.60	18.60	19.60	20.60
16.90	17.20	17.90	18.90	19.90	20.90
17.20	17.50	18.20	19.20	20.20	21.20
17.50	17.80	18.50	19.50	20.50	21.50
17.80	18.10	18.80	19.80	20.80	21.80
18.10	18.40	19.10	20.10	21.10	22.10
18.40	18.70	19.40	20.40	21.40	22.40
18.70	19.00	19.70	20.70	21.70	22.70
19.00	19.30	20.00	21.00	22.00	23.00
19.30	19.60	20.30	21.30	22.30	23.30
19.60	19.90	20.60	21.60	22.60	23.60
19.90	20.20	20.90	21.90	22.90	23.90
20.20	20.50	21.20	22.20	23.20	24.20
20.50	20.80	21.50	22.50	23.50	24.50
20.80	21.10	21.80	22.80	23.80	24.80
21.10	21.40	22.10	23.10	24.10	25.10
21.40	21.70	22.40	23.40	24.40	25.40
21.70	22.00	22.70	23.70	24.70	25.70
22.00	22.30	23.00	24.00	25.00	26.00
22.30	22.60	23.30	24.30	25.30	26.30
22.60	22.90	23.60	24.60	25.60	26.60
22.90	23.20	23.90	24.90	25.90	26.90
23.20	23.50	24.20	25.20	26.20	27.20
23.50	23.80	24.50	25.50	26.50	27.50
23.80	24.10	24.80	25.80	26.80	27.80
24.10	24.40	25.10	26.10	27.10	28.10
24.40	24.70	25.40	26.40	27.40	28.40
24.70	25.00	25.70	26.70	27.70	28.70
25.00	25.30	26.00	27.00	28.00	29.00
25.30	25.60	26.30	27.30	28.30	29.30
25.60	25.90	26.60	27.60	28.60	29.60
25.90	26.20	26.90	27.90	28.90	29.90
26.20	26.50	27.20	28.20	29.20	30.20
26.50	26.80	27.50	28.50	29.50	30.50
26.80	27.10	27.80	28.80	29.80	30.80
27.10	27.40	28.10	29.10	30.10	31.10
27.40	27.70	28.40	29.40	30.40	31.40
27.70	28.00	28.70	29.70	30.70	31.70
28.00	28.30	29.00	30.00	31.00	32.00
28.30	28.60	29.30	30.30	31.30	32.30
28.60	28.90	29.60	30.60	31.60	32.60
28.90	29.20	29.90	30.90	31.90	32.90
29.20	29.50	30.20	31.20	32.20	33.20
29.50	29.80	30.50	31.50	32.50	33.50
29.80	30.10	30.80	31.80	32.80	33.80
30.10	30.40	31.10	32.10	33.10	34.10
30.40	30.70	31.40	32.40	33.40	34.40
30.70	31.00	31.70	32.70	33.70	34.70
31.00	31.30	32.00	33.00	34.00	35.00
31.30	31.60	32.30	33.30	34.30	35.30
31.60	31.90	32.60	33.60	34.60	35.60
31.90	32.20	32.90	33.90	34.90	35.90
32.20	32.50	33.20	34.20	35.20	36.20
32.50	32.80	33.50	34.50	35.50	36.50
32.80	33.10	33.80	34.80	35.80	36.80
33.10	33.40	34.10	35.10	36.10	37.10
33.40	33.70	34.40	35.40	36.40	37.40
33.70	34.00	34.70	35.70	36.70	37.70
34.00	34.30	35.00	36.00	37.00	38.00
34.30	34.60	35.30	36.30	37.30	38.30
34.60	34.90	35.60	36.60	37.60	38.60
34.90	35.20	35.90	36.90	37.90	38.90
35.20	35.50	36.20	37.20	38.20	39.20
35.50	35.80	36.50	37.50	38.50	39.50
35.80	36.10	36.80	37.80	38.80	39.80
36.10	36.40	37.10	38.10	39.10	40.10
36.40	36.70	37.40	38.40	39.40	40.40
36.70	37.00	37.70	38.70	39.70	40.70
37.00	37.30	38.00	39.00	40.00	41.00
37.30	37.60	38.30	39.30	40.30	41.30
37.60	37.90	38.60	39.60	40.60	41.60
37.90	38.20	38.90	39.90	40.90	41.90
38.20	38.50	39.20	40.20	41.20	42.20
38.50	38.80	39.50	40.50	41.50	42.50
38.80	39.10	39.80	40.80	41.80	42.80
39.10	39.40	40.10	41.10	42.10	43.10
39.40	39.70	40.40	41.40	42.40	43.40
39.70	40.00	40.70	41.70	42.70	43.70
40.00	40.30	41.00	42.00	43.00	44.00
40.30	40.60	41.30	42.30	43.30	44.30
40.60	40.90	41.60	42.60	43.60	44.60
40.90	41.20	41.90	42.90	43.90	44.90
41.20	41.50	42.20	43.20	44.20	45.20
41.50	41.80	42.50	43.50	44.50	45.50
41.80	42.10	42.80	43.80	44.80	45.80
42.10	42.40	43.10	44.10	45.10	46.10
42.40	42.70	43.40	44.40	45.40	46.40
42.70	43.00	43.70	44.70	45.70	46.70
43.00	43.30	44.00	45.00	46.00	47.00
43.30	43.60	44.30	45.30	46.30	47.30
43.60	43.90	44.60	45.60	46.60	47.60
43.90	44.20	44.90	45.90	46.90	47.90
44.20	44.50	45.20	46.20	47.20	48.20
44.50	44.80	45.50	46.50	47.50	48.50
44.80	45.10	45.80	46.80	47.80	48.80
45.10	45.40	46.10	47.10	48.10	49.10
45.40	45.70	46.40	47.40	48.40	49.40
45.70	46.00	46.70	47.70	48.70	49.70
46.00	46.30	47.00	48.00	49.00	50.00
46.30	46.60	47.30	48.30	49.30	50.30
46.60	46.90	47.60	48.60	49.60	50.60
46.90	47.20	47.90	48.90	49.90	50.90
47.20	47.50	48.20	49.20	50.20	51.20
47.50	47.80	48.50	49.50	50.50	51.50
47.80	48.10	48.80	49.80	50.80	51.80
48.10	48.40	49.10	50.10	51.10	52.10
48.40	48.70	49.40	50.40	51.40	52.40
48.70	49.00	49.70	50.70	51.70	52.70
49.00	49.30	50.00	51.00	52.00	53.00
49.30	49.60	50.30	51.30	52.30	53.30
49.60	49.90	50.60	51.60	52.60	53.60
49.90	50.20	50.90	51.90	52.90	53.90
50.20	50.50	51.20	52.20	53.20	54.20
50.50	50.80	51.50	52.50	53.50	54.50
50.80	51.10	51.80	52.80	53.80	54.80
51.10	51.40	52.10	53.10	54.10	55.10
51.40	51.70	52.40	53.40	54.40	55.40