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88/R/WW/1 Varieties - W. Wheat

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88/R/WW/1

WINTER WHEAT

VARIETIES

Object: To study a selection of newer varieties of w. wheat on land in rotation (pathogen free) and after wheat (pathogen infected) - Great Harpenden I (pathogen free RH) and Great Knott I (pathogen infected RD).

Sponsors: R. Moffitt, R.J. Gutteridge.

Design: One block of 4 whole plots split into 10 sub-plots.

Sub plot dimensions: 3.0 x 12.0.

Treatments: All combinations of:-

Whole plots

- | | |
|--------------------|-------------------------------------------------|
| 1. INSCTCDE | Insecticide: |
| NONE | None |
| PIRIMICA | Pirimicarb at 0.14 kg in 200 l on 24 June, 1988 |
| 2. FOLIAR N | Foliar applied urea: |
| NONE | None |
| UREA | Aqueous urea at 40 kg N in 210 l on 5 July. |

Sub plots

- | | |
|-------------------|------------|
| 3. VARIETY | Varieties: |
| APOLLO | Apollo |
| AVALON | Avalon |
| FORTRESS | Fortress |
| GALAHAD | Galahad |
| HORNET | Hornet |
| MERCIA | Mercia |
| PARADE | Parade |
| RENDEZVO | Rendezvous |
| SLEJPNER | Slejpner |
| URBAN | Urban |

Basal applications:

Great Harpenden I (RH): Manures: 'Nitram' at 120 kg and later at 480 kg. Weedkillers: Fluroxypyr at 0.20 kg with clopyralid at 0.07 kg and bromoxynil at 0.34 kg in 200 l. Diclofop-methyl at 1.1 kg in 200 l. Fungicides: Carbendazim at 0.25 kg and maneb at 1.6 kg in 200 l. Propiconazole at 0.12 kg in 200 l.

Great Knott I (RD): Manures: 'Nitram' at 120 kg and later at 480 kg. Weedkillers: Glyphosate at 0.27 kg in 200 l. Diclofop-methyl at 1.1 kg applied with the prochloraz and carbendazim in 200 l. Fungicides: Prochloraz at 0.40 kg and carbendazim at 0.15 kg. Propiconazole at 0.12 kg and tridemorph at 0.25 kg in 200 l.

Seed: Varieties sown at 180 kg on both sites.

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Cultivations, etc.:-

Both sites: Rotary harrowed, seed sown: 7 Nov, 1987. First N applied: 1 Mar, 1988. Second N applied: 22 Apr. Combine harvested: 26 Aug.
 Great Harpenden I (RH): Ploughed: 29 Sept, 1987. Fluroxypyr, clopyralid and bromoxynil applied: 25 Apr, 1988. Diclofop-methyl applied: 6 May. Carbendazim and maneb applied: 20 June. Propiconazole applied: 21 June. Previous crops: W. wheat 1986, w. beans 1987.
 Great Knott I (RD): Glyphosate applied: 29 Sept, 1987. Ploughed: 6 Oct Diclofop-methyl with prochloraz and carbendazim applied: 6 May, 1988. Propiconazole and tridemorph applied: 20 June. Previous crops: Potatoes 1986, w. wheat 1987.

NOTE: Aphids were counted in June and July.

88/R/WW/1 GREAT HARPENDEN I (RH)

GRAIN TONNES/HECTARE

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

FOLIAR N VARIETY	NONE	UREA	Mean
APOLLO	7.51	7.16	7.33
AVALON	7.44	7.05	7.25
FORTRESS	8.20	7.35	7.77
GALAHAD	7.80	8.05	7.92
HORNET	7.78	7.54	7.66
MERCIA	8.15	7.83	7.99
PARADE	8.46	7.70	8.08
RENDEZVO	8.84	8.76	8.80
SLEJPNER	7.24	7.23	7.24
URBAN	7.23	6.97	7.10
Mean	7.87	7.56	7.71

INSCTCDE VARIETY	NONE	PIRIMICA	Mean
APOLLO	7.65	7.02	7.33
AVALON	7.41	7.08	7.25
FORTRESS	7.74	7.81	7.77
GALAHAD	7.93	7.92	7.92
HORNET	7.86	7.46	7.66
MERCIA	8.21	7.77	7.99
PARADE	8.56	7.60	8.08
RENDEZVO	8.83	8.77	8.80
SLEJPNER	7.37	7.10	7.24
URBAN	7.38	6.83	7.10
Mean	7.89	7.54	7.71

INSCTCDE FOLIAR N	NONE	PIRIMICA	Mean
NONE	7.72	8.01	7.87
UREA	8.07	7.06	7.56
Mean	7.89	7.54	7.71

88/R/WW/1 GREAT HARPENDEN I (RH)

GRAIN TONNES/HECTARE

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

VARIETY	INSCTCDE FOLIAR N	NONE	PIRIMICA
APOLLO	NONE	7.33	7.68
	UREA	7.96	6.36
AVALON	NONE	6.95	7.94
	UREA	7.88	6.23
FORTRESS	NONE	7.98	8.42
	UREA	7.49	7.21
GALAHAD	NONE	7.76	7.84
	UREA	8.10	8.00
HORNET	NONE	7.78	7.78
	UREA	7.94	7.13
MERCIA	NONE	8.16	8.14
	UREA	8.26	7.41
PARADE	NONE	8.25	8.68
	UREA	8.88	6.51
RENDEZVO	NONE	8.64	9.04
	UREA	9.02	8.49
SLEJPNER	NONE	7.22	7.27
	UREA	7.53	6.93
URBAN	NONE	7.12	7.35
	UREA	7.64	6.30

GRAIN MEAN DM% 82.0

SUB PLOT AREA HARVESTED 0.00245

88/R/WW/1 GREAT KNOTT I (RD)

GRAIN TONNES/HECTARE

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

FOLIAR N VARIETY	NONE	UREA	Mean
APOLLO	9.78	9.36	9.57
AVALON	8.43	8.34	8.39
FORTRESS	9.51	9.25	9.38
GALAHAD	8.88	9.30	9.09
HORNET	10.18	9.88	10.03
MERCIA	9.37	9.27	9.32
PARADE	9.77	9.49	9.63
RENDEZVO	9.39	9.78	9.58
SLEJPNER	9.17	9.19	9.18
URBAN	7.80	7.81	7.81
Mean	9.23	9.17	9.20

INSCTCDE VARIETY	NONE	PIRIMICA	Mean
APOLLO	9.54	9.60	9.57
AVALON	8.26	8.51	8.39
FORTRESS	9.65	9.11	9.38
GALAHAD	9.17	9.01	9.09
HORNET	10.04	10.02	10.03
MERCIA	9.42	9.22	9.32
PARADE	9.70	9.56	9.63
RENDEZVO	9.82	9.35	9.58
SLEJPNER	9.56	8.81	9.18
URBAN	7.84	7.78	7.81
Mean	9.30	9.09	9.20

INSCTCDE FOLIAR N	NONE	PIRIMICA	Mean
NONE	9.37	9.09	9.23
UREA	9.23	9.10	9.17
Mean	9.30	9.09	9.20

88/R/WW/1 GREAT KNOTT I (RD)

GRAIN TONNES/HECTARE

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

VARIETY	INSCTCDE FOLIAR N	NONE	PIRIMICA
APOLLO	NONE	9.89	9.68
	UREA	9.19	9.53
AVALON	NONE	8.23	8.63
	UREA	8.30	8.39
FORTRESS	NONE	9.82	9.20
	UREA	9.48	9.01
GALAHAD	NONE	9.22	8.55
	UREA	9.13	9.47
HORNET	NONE	9.82	10.53
	UREA	10.26	9.50
MERCIA	NONE	9.40	9.35
	UREA	9.45	9.08
PARADE	NONE	9.82	9.72
	UREA	9.58	9.41
RENDEZVO	NONE	9.95	8.83
	UREA	9.70	9.86
SLEJPNER	NONE	9.69	8.66
	UREA	9.43	8.95
URBAN	NONE	7.90	7.71
	UREA	7.78	7.84

GRAIN MEAN DM% 80.6

SUB PLOT AREA HARVESTED 0.00245