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98/R/RN/22 Crop Rotation - W. Oats

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98/R/RN/22

CROP ROTATIONS

Object: To test combinable break crops and their effect on following wheat crops. New crop species and winter sown variants of established species will be tested to determine optimal break crop selection for rotations that maximise first wheat yields and minimise inputs - Great Field I/II.

Sponsor: I.F. Shield, M.V. Hewitt, R.W. Payne.

The first year, w.oats.

Design: 2 blocks of 42 plots split into 4 sub-plots.

Whole plot dimensions: 4.5 x 10.0.

Treatments:

None (preparatory year)

Experimental diary:

15-Sep-97 : B : Deep tine cultivated with vibrating tines 60 cm apart
and 45 cm deep.
18-Sep-97 : B : Chalk at 4.0 t.
19-Sep-97 : B : Ploughed.
13-Oct-97 : B : Rotary harrowed, Image, dressed Anchor, drilled at 350
seeds per m².
13-Feb-98 : B : 34.5% N at 116 kg.
01-Apr-98 : B : Mistral at 0.75 l in 200 l.
27-Apr-98 : B : 34.5% N at 155 kg.
27-Apr-98 : B : Rovral Flo at 3.0 l in 200 l.
12-May-98 : B : Tripart Brevis at 2.25 l with Headland Enhance LF at
40 ml in 200 l.
25-Jun-98 : B : Corbel at 1.0 l in 200 l.
06-Aug-98 : T : Combine harvested.

NOTE: The whole site was sown to oats in the preparatory year. Yields were taken for each sub-plot and a yield map produced. Lodging occurred in many plots.

GRAIN TONNES/HECTARE

Grand mean 6.30

SUB-PLOT AREA HARVESTED 0.00230