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61/R/DB/3 and 61/W/DB/3 Barley - Control of Wild Oats

Rothamsted Research

Rothamsted Research (1962) *61/R/DB/3 and 61/W/DB/3 Barley - Control of Wild Oats* ; Yields Of The Field Experiments 1961, pp 118 - 119 - DOI: <https://doi.org/10.23637/ERADOC-1-182>

61/Db/3.1

BARLEY

The control of wild oats (*Avena fatua*) by means of a residual pre-emergence herbicide - Rothamsted (R) Great Field I and Woburn (W) Broadmead I 1961.

Design (each field): 3 randomised blocks of 6 plots each.

Area of each plot (acres): 0.0129. Area harvested: 0.0092.

Treatments. All combinations of:-

Spray. None; herbicide* spray applied to seedbed before sowing.

Cultivation. None; rotary cultivation. Spring tine cultivation (2 strokes).

*The herbicide contained 4 lb per gallon of 2,3-dichloroallyldiisopropylthiolcarbamate and was applied at 3 pints in 40 gallons per acre on Great Field I (R) and at 3 pints in 20 gallons per acre on Broadmead I (W).

Basal dressings per acre:

Great Field I (R): 3 cwt compound fertiliser (16% N, 9% P₂O₅, 9% K₂O) combine drilled.

Broadmead I (W): 3½ cwt compound fertiliser (16% N, 9% P₂O₅, 9% K₂O) combine drilled.

Cultivations, etc.:

Great Field I (R): Ground chalk applied at 54 cwt per acre: Oct 4 - 14, 1960. Ploughed: Oct 14. Herbicide spray, spring tine cultivations and rotary cultivation applied: Apr 7, 1961. Seed combine drilled at 2¼ bushels per acre: Apr 10. Combine harvested: Aug 18. Variety: Proctor. Previous crop: Winter wheat.

Broadmead I (W): Sprayed with dalapon at 4 lb in 20 gallons per acre: Nov 9, 1960. Ploughed: Dec 13 - Jan 6, 1961. Herbicide spray, spring tine cultivations and rotary cultivation applied: Mar 23. Seed combine drilled at 2¼ bushels per acre: Mar 25. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 3. Combine harvested: Aug 18. Variety: Proctor. Previous crop: Winter wheat.

Note. Counts of wild oats were taken.

Standard error per plot, Grain (at 85% dry matter):

Gt. Field I (R): 2.73 cwt per acre or 8.5% (10 d.f.)

Broadmead I (W): 2.27 cwt per acre or 6.8% (9 d.f.)*

*1 missing value.

61/Db/3.2

Summary of Results

	Cultivation			Mean
	None	Rotary	Spring tine	
<u>Great Field I (R)</u>				
		(±1.56)		(±0.90)
Unsprayed	29.9	34.5	30.6	31.6
Sprayed	29.9	35.2	32.6	32.6
Mean (±1.11)	29.9	34.8	31.6	32.1
Diff. (±2.23)	0.0	+0.7	+2.0	+1.0 (±1.29)

Mean dry matter % as harvested: 82.8

Broadmead I (W)

		(±1.31)		(±0.76)
Unsprayed	30.1	31.1	34.3 ⁺	31.8
Sprayed	35.7	35.1	34.5	35.1
Mean (±0.93)	32.9	33.1	34.4	33.4
Diff. (±1.85)	+5.6	+4.0	+0.2	+3.3 (±1.07)

Mean dry matter % as harvested: 85.0

⁺includes 1 estimated value.