

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1961

[Full Table of Content](#)



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.