

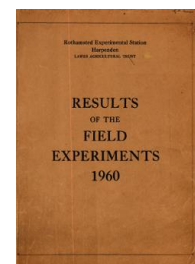
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1960

[Full Table of Content](#)



60/W/CC/2 Spring Oats - Trap Cropping of Eelworm

Rothamsted Research

Rothamsted Research (1961) *60/W/CC/2 Spring Oats - Trap Cropping of Eelworm* ; Yields Of The Field Experiments 1960, pp 103 - 104 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

OATS

Trap cropping of eelworm - Woburn, Butt Furlong 1960.

Design: 6 randomised blocks of 6 plots each.

Area of each plot: 0.0106 acres. Area harvested: 0.0071 acres.

Treatments. All combinations of:-

Trap crop 1958 and 1959. Spring oats; Spring rye; Fallow.
(all plots ploughed in May or June)

Green manure: None; mustard sown in June and ploughed in in
autumn.

The whole experiment was sown to spring oats in 1960.

Note: Mustard failed in 1959 and was ploughed in and resown on
July 24.

Basal dressings per acre:

1958: 5 cwt compound fertiliser (12% N; 9% P₂O₅; 9% K₂O) combine
drilled with oats and rye and broadcast on the plots to be sown
only with mustard. 2 cwt 'Nitro-Chalk' (15.5% N) to all plots
at time of sowing mustard.

1959: Compound fertiliser as in 1958. 1½ cwt 'Nitro-Shell' to
all plots at time of sowing mustard.

1960: 4 cwt compound fertiliser (16% N; 9% P₂O₅; 9% K₂O) combine
drilled..

Cultivations, etc.:

1958: Ploughed: Aug 29 - 30, 1957. Sprayed twice with TCA at 20 lb
in 40 gallons per acre: Sept 30 and Dec 9. Dung applied at
12 tons per acre: Jan 21 - 24. Ploughed: Mar 5 - 7, 1958.
Oats and rye combine drilled with basal fertiliser: Mar 25.
Basal compound fertiliser applied to mustard only plots: Apr 3.
All plots ploughed: May 30. 'Nitro-Chalk' applied: June 3.
Mustard sown: June 5. All plots ploughed: July 19. All
mustard plots ploughed: Oct 28.

1959: Basal compound fertiliser applied to mustard only plots,
oats and rye combine drilled with basal compound fertiliser:
Mar 17, 1959. Extra 'Nitro-Chalk' applied to
all plots to improve the crop: Apr 25. Oats and rye plots
ploughed: June 2. 'Nitro-Shell' applied and mustard sown:
June 3. Owing to failure of mustard following oats and rye,
all mustard cut and removed, and all plots ploughed: July 17.
Mustard resown: July 24. All mustard plots ploughed: Sept 2.

1960: Ploughed: Jan 9, 1960. Oats combine drilled at 4 bushels
per acre with basal compound fertiliser: Mar 8. Sprayed
with TCB/MCPA at 4 pints in 40 gallons per acre: May 7.
Combine harvested: Aug 19. Varieties: Oats; 1958 and 1959 -
Sun II, 1960 - Condour; Rye: King II. Previous crop:
Oats (1957).

60/Cc/2.2

Note: Periodic estimates of eelworm population were made.

Standard error per plot.

Grain (at 85% dry matter): 3.19 cwt per acre or 11.4% (25 d.f.)

Summary of Results

Trap crops 1958 and 1959

Green manure	Oats	Rye	Fallow	Mean
<u>Grain (at 85% dry matter): cwt per acre</u>				
		(±1.30)		
None	27.7	31.7	23.8	27.7
Mustard	28.1	30.9	25.9	28.3
Mean (±0.94)	27.9	31.3	24.9	28.0
Diff. (±1.84)	+0.4	-0.8	+2.1	+0.6 (±1.06)

Mean dry matter % as harvested: 80.4

Straw (at 85% dry matter): cwt per acre

None	22.6	24.7	19.1	22.1
Mustard	23.9	26.0	24.0	24.6
Mean	23.2	25.3	21.6	23.3
Diff.	+1.3	+1.3	+4.9	+2.5

Mean dry matter % as harvested: 46.1