

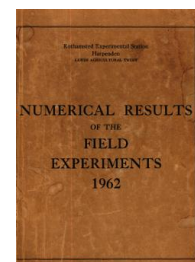
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1962

[Full Table of Content](#)



62/W/DG/2 Lucerne - Control of Weeds - Simazine and Row Spacing

Rothamsted Research

Rothamsted Research (1963) *62/W/DG/2 Lucerne - Control of Weeds - Simazine and Row Spacing ; Yields Of The Field Experiments 1962*, pp 143 - 145 - DOI:

<https://doi.org/10.23637/ERADOC-1-164>

62/Dg/1.1

LUCERNE

Control of weeds by simazine and row spacing - Woburn Mill Dam Close
1962, the second year.

Design: 2 replicates of 12 treatments arranged in one randomised
block*.

Area of each plot: 0.0082 acres. Area harvested: 0.0046 acres.

Treatments. All combinations of:

Row spacing: 7 inches; 14 inches.

Method of control: None (0); mechanically cultivated (M);

Simazine $1\frac{1}{2}$; 3 lb active ingredient per acre per year each
applied in spring ($1\frac{1}{2}$ E; 3E) or half in spring half in autumn
($1\frac{1}{2}$ EL; 3EL).

Basal dressing per acre: None in 1962.

Cultivations, etc.: Autumn EL treatments applied: Sept 19, 1961.
Spring E and EL treatments applied: Apr 12, 1962. M plots planet
hoed: Apr 13. M plots tiller hoed: June 5. Cut 4 times:
June 1, July 13, Aug 17, Oct 5. Variety: Du Puits. Previous
crop: Kale 1960.

*Originally 2 randomised blocks of 20 plots each, but some plots
were abandoned because of damage by birds and moles.

Standard errors per plot. Dry matter:

1st cut:	4.56 cwt per acre or 25.7% (12 d.f.)
2nd cut:	6.42 cwt per acre or 21.9% (12 d.f.)
3rd cut:	3.52 cwt per acre or 17.7% (12 d.f.)
4th cut:	3.20 cwt per acre or 22.7% (12 d.f.)
Total of 4 cuts:	14.81 cwt per acre or 18.3% (12 d.f.)

Note: For details of the previous year's results see "Numerical
Results of the Field Experiments" 61/Dh/1.

62/Dg/1.2

Summary of Results

Dry matter: cwt per acre

Row spacing: inches	Method of control						Mean
	0	M	1 $\frac{1}{2}$ E	3E	1 $\frac{1}{2}$ EL	3EL	
	<u>1st cut</u>						
	(± 3.22)						
7	26.5	24.2	16.8	19.6	17.6	13.0	19.6
14	20.4	20.0	16.8	14.5	13.3	8.1	15.7
Mean (± 2.28)	23.4	22.1	16.8	17.6	15.5	10.6	17.7
Diff. (± 4.56)	-6.1	-4.2	0.0	-4.0	-4.3	-4.9	-3.9 (± 1.86)
	<u>2nd cut</u>						
	(± 4.54)						
7	35.2	27.4	28.4	29.7	37.1	25.7	30.6
14	35.2	33.7	29.9	25.7	26.1	17.3	28.0
Mean (± 3.21)	35.2	30.6	29.2	27.7	31.6	21.5	29.3
Diff. (± 6.42)	0.0	+6.3	+1.5	-4.0	-11.0	-8.4	-2.6 (± 2.62)

Mean dry matter % as harvested:

1st cut: 18.9

2nd cut: 21.5

Method of control

0 = None

M = Mechanically cultivated

1 $\frac{1}{2}$ E; 3E = Simazine 1 $\frac{1}{2}$; 3 lb active ingredient per acre per year each applied in spring

1 $\frac{1}{2}$ EL; 3EL = Half in spring half in autumn.

62/Dg/1.3

Dry matter: cwt per acre

Row spacing: inches	Method of control						Mean
	0	M	1½E	3E	1½EL	3EL	
<u>3rd cut</u>							
(±2.49)							
7	18.5	21.6	19.1	20.1	24.6	21.7	21.0
14	20.4	19.3	21.0	19.6	18.7	13.7	18.8
Mean (±1.76)	19.5	20.4	20.1	19.8	21.7	17.7	19.9
Diff. (±3.52)	+1.9	-2.3	+1.9	-0.5	-5.9	-8.0	-2.2 (±1.44)
<u>4th cut</u>							
(±2.26)							
7	12.9	15.9	12.5	14.6	16.4	16.7	14.9
14	15.3	13.5	15.1	13.5	13.3	8.8	13.3
Mean (±1.60)	14.1	14.7	13.8	14.0	14.9	12.7	14.1
Diff. (±3.20)	+2.4	-2.4	+2.6	-1.1	-3.1	-7.9	-1.6 (±1.31)
<u>Total of 4 cuts</u>							
(±10.47)							
7	93.1	89.2	77.0	84.1	95.8	77.2	86.1
14	91.3	86.6	82.9	74.4	71.5	47.9	75.8
Mean (±7.40)	92.2	87.9	80.0	79.2	83.6	62.6	80.9
Diff. (±14.81)	-1.8	-2.6	+5.9	-9.7	-24.3	-29.3	-10.3 (±6.05)

Mean dry matter % as harvested:

3rd cut: 15.5

4th cut: 19.1

Total of 4 cuts: 18.8

Method of control

0 = None

M = Mechanically cultivated

1½E; 3E = Simazine 1½; 3 lb active ingredient per acre per year
each applied in spring

1½EL; 3EL = Half in spring half in autumn.