

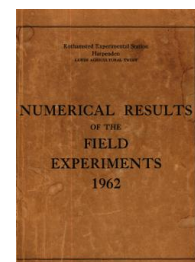
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Yields of the Field Experiments 1962

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

Rothamsted Research

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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	1½E	3E	1½EL	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

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

1½EL; 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.