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Yields of the Field Experiments 1961

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61/W/DH/2 Lucerne - Control of Weeds - Simazine and Row Spacing

Rothamsted Research

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61/Dh/1.1

LUCERNE

Control of weeds by simazine and row spacing - Woburn Mill Dam Close
1961.

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 each applied either
in spring ($1\frac{1}{2}$ E; 3 E) or $\frac{3}{4}$ lb in spring ($\frac{3}{4}$ E).

Basal dressing: 4 cwt per acre compound fertiliser (14% P₂O₅, 28% K₂O).

Cultivations, etc.: Harrowed: June 28 and July 20, 1960. Seed
drilled at 20 lb per acre: Aug 11. Sprayed with diquat at $2\frac{1}{2}$
pints in 80 gallons per acre: Dec 17. Basal fertiliser applied:
Mar 6, 1961. Simazine sprays applied: Mar 28 and Sept 19. Cut
three times: June 13, July 25, Sept 8. Variety: Du Fuits.
Previous crop: Kale.

*Originally 2 randomised blocks of 20 plots each, but some plots were
abandoned owing to mole and bird damage.

Standard error per plot. Dry matter cwt per acre:

1st cut:	9.78 cwt per acre or 28.5% (14 d.f.)
2nd cut:	9.01 cwt per acre or 30.8% (14 d.f.)
3rd cut:	4.51 cwt per acre or 14.3% (14 d.f.)
Total of 3 cuts:	19.36 cwt per acre or 20.4% (14 d.f.)

Summary of Results

Dry matter: cwt per acre

Row spacing: inches	Method of control					Mean
	0	M	1 $\frac{1}{2}$ E	3E	$\frac{3}{4}$ E	
<u>1st cut</u>						
	(± 6.91)		(± 4.89)		(± 6.91)	
7	46.9	38.3	33.4	22.9	46.6	36.9
14	35.3	43.5	26.4	26.0	32.4	31.7
Mean	41.1 (± 4.89)	40.9	29.9 (± 3.46)	24.5 (± 4.89)	39.5	34.3
Diff.	-11.6 (± 9.78)	+5.2	-7.0 (± 6.91)	+3.1 (± 9.78)	-14.2	-5.2 (± 3.99)
<u>2nd cut</u>						
	(± 6.37)		(± 4.51)		(± 6.37)	
7	33.1	22.8	31.4	21.3	39.1	29.9
14	28.7	33.7	27.4	26.5	28.7	28.7
Mean	30.9 (± 4.51)	28.3	29.4 (± 3.19)	23.9 (± 4.51)	33.9	29.3
Diff.	-4.4 (± 9.01)	+10.9	-4.0 (± 6.37)	+5.2 (± 9.01)	-10.4	-1.2 (± 3.68)

Mean dry matter % as harvested:

1st cut: 23.1
2nd cut: 18.8

Method of control

0 = None

M = Mechanically cultivated

1 $\frac{1}{2}$ E; $\frac{3}{4}$ E = Simazine 1 $\frac{1}{2}$ lb; 3 lb active ingredient per acre applied $\frac{3}{4}$ in spring

1 $\frac{1}{2}$ EL = ~~Simazine 1 $\frac{1}{2}$ lb active ingredient per acre applied half in spring half in autumn 1961.~~

61/Dh/1.3

Dry matter: cwt per acre

Row spacing: inches	Method of control					Mean
	0	M	1½E	3E	¾E	
<u>3rd cut</u>						
	(±3.19)		(±2.26)		(±3.19)	
7	31.3	28.4	31.9	28.6	38.0	31.7
14	29.4	35.4	31.3	28.4	31.5	31.2
Mean	30.4 (±2.26)	31.9	31.6 (±1.59)	28.5	34.8 (±2.26)	31.5
Diff.	-1.9 (±4.51)	+7.0	-0.6 (±3.19)	-0.2 (±4.51)	-6.5	-0.5 (±1.84)

<u>Total of 3 cuts</u>						
	(±13.69)		(±9.68)		(±13.69)	
7	111.4	89.6	96.8	72.9	123.8	98.5
14	93.4	112.6	85.1	81.0	92.7	91.6
Mean	102.4 (±9.68)	101.1	90.9 (±6.84)	76.9	108.2 (±9.68)	95.1
Diff.	-18.0 (±19.36)	+23.0	-11.7 (±13.69)	+8.1 (±19.36)	-31.1	-6.9 (±7.90)

Mean dry matter % as harvested:

3rd cut: 19.6
Total of 3 cuts: 20.5

Method of control

0 = None
M = Mechanically cultivated
1½E; ¾E = Simazine 1½ lb; ¾ lb active ingredient per acre applied in spring
1½E = ~~Simazine 1½ lb active ingredient per acre applied half in spring half in autumn 1961.~~