ROTHAMSTED RESEARCH

Yields of the Field Experiments 1961

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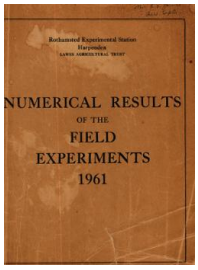

61/W/DH/2 Lucerne - Control of Weeds - Simazine and Row Spacing

Rothamsted Research

Rothamsted Research (1962) *61/W/DH/2 Lucerne - Control of Weeds - Simazine and Row Spacing ;* Yields Of The Field Experiments 1961, pp 137 - 139 **- DOI: https://doi.org/10.23637/ERADOC-1-182**

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 1½; 3 lb active ingredient per acre each applied ~~either~~ in spring (1½ E; 3 E) or ¾ lb in spring (¾ E).

Basal dressing: 4 cwt per acre compound fertiliser (14% P_2O_5, 28% K_2O).

Cultivations, etc.: Harrowed: June 28 and July 20, 1960. Seed drilled at 20 lb per acre: Aug 11. Sprayed with diquat at 2½ 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 Puits. 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.)

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61/Dh/1.2

Summary of Results

Dry matter: cwt per acre

Row spacing: inches	Method of control: 0	M	1½E	3E	¾E	Mean
1st cut						
	(±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	40.9	29.9	24.5	39.5	34.3
	(±4.89)		(±3.46)	(±4.89)		
Diff.	-11.6	+5.2	-7.0	+3.1	-14.2	-5.2
	(±9.78)		(±6.91)	(±9.78)		(±3.99)
2nd cut						
	(±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	28.3	29.4	23.9	33.9	29.3
	(±4.51)		(±3.19)	(±4.51)		
Diff.	-4.4	+10.9	-4.0	+5.2	-10.4	-1.2
	(±9.01)		(±6.37)	(±9.01)		(±3.68)

Mean dry matter % as harvested:
1st cut: 23.1
2nd cut: 18.8

Method of control

0 = None
M = Mechanically cultivated
1½E; 3E = Simazine 1½ lb; 3 lb active ingredient per acre applied in spring
~~1½EL~~ = ~~Simazine 1½ lb active ingredient per acre applied half in spring half in autumn 1961~~.

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Dry matter: cwt per acre

Row spacing: inches	Method of control					
	0	M	1½E	3E	¾E	Mean
3rd cut						
	(±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	31.9	31.6	28.5	34.8	31.5
	(±2.26)		(±1.59)	(±2.26)		
Diff.	-1.9	+7.0	-0.6	-0.2	-6.5	-0.5
	(±4.51)		(±3.19)	(±4.51)		(±1.84)
Total of 3 cuts						
	(±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	101.1	90.9	76.9	108.2	95.1
	(±9.68)		(±6.84)	(±9.68)		
Diff.	-18.0	+23.0	-11.7	+8.1	-31.1	-6.9
	(±19.36)		(±13.69)	(±19.36)		(±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 3E = Simazine 1½ lb; 3 lb active ingredient per acre applied in spring
~~1½E~~ = ~~Simazine 1½ lb active ingredient per acre applied half in spring half in autumn 1961.~~

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