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64/W/WAS/C/16 One Year Leys for Wheat - Grass and Clover

Rothamsted Research

Rothamsted Research (1965) *64/W/WAS/C/16 One Year Leys for Wheat - Grass and Clover* ; Yields Of The Field Experiments 1964, pp 181 - 182 - DOI: <https://doi.org/10.23637/ERADOC-1-160>

64/C/16.1

ONE YEAR LEYS FOR WHEAT

(WAS)

A comparison of different one year leys as a preparation for wheat -
Woburn Warren Field North - leys 1964 the first year.

Design: 3 randomised blocks of 18 plots each.

Area of each plot: 0.0212. Area harvested: 1st cut - 0.0101,
2nd cut - 0.0138.

Treatments: All combinations of:-

1. Leys undersown in barley 1963 and cut for hay 1964, with nitrogen as follows:
Clover: None (CO).
Ryegrass: None (RO), 1 (R2), 2 (R4) cwt N.
Clover-Ryegrass: None (MO) 1 (M2) cwt N.
All N as 'Nitro-Chalk', 5/8ths to first cut, 3/8ths to second cut.
2. Potash: None (KO), 1.2 (K1), 2.4 (K2) cwt K₂O as muriate of potash, 5/8ths to first cut, 3/8ths to second cut.

NOTE (1): Wheat 1965 will test in addition to the above:

3. Potash at none, 1.2, 2.4 cwt K₂O
4. 'Nitro-Chalk' at none, 0.5, 1.0 cwt N.

Basal dressing. Barley nurse crop 1963: 3 cwt 21:14:14 combine drilled.
Leys: 1.25 cwt superphosphate combine drilled.

Cultivations, etc.: Barley drilled: Apr 13, 1963. Leys undersown in barley, basal dressing applied for leys: May 6, 1963. 1st dressing of N and K applied: Mar 25, 1964. Cut: June 12. 2nd dressing of N and K applied: June 23. Cut 2nd time: Aug 5. Previous crops: Barley 1962 and 1963.

NOTE (2): Plots were sampled at each cut for estimation of dry matter and N and K per cent.

Standard errors per plot. Dry matter:

1st cut:	3.60 or 7.4% (34 d.f.)
2nd cut:	2.46 or 9.5% (34 d.f.)
Total of 2 cuts:	4.70 or 6.3% (34 d.f.)

64/C/16.2

SUMMARY OF RESULTS

GRASS, DRY MATTER

	CO	RO	R2	R4	MO	M2	Mean
1ST CUT							
(±2.08)							(±0.84)
K0	30.4	40.3	55.0	54.1	49.4	60.5	48.3
K1	35.2	42.0	61.1	59.1	50.0	54.8	50.4
K2	35.0	40.1	56.0	53.1	49.2	56.2	48.3
Mean (±1.20)	33.5	40.8	57.4	55.4	49.5	57.2	48.9
2ND CUT							
(±1.41)							(±0.58)
K0	25.8	7.1	30.8	36.2	20.0	32.9	25.5
K1	25.9	8.1	31.6	38.9	21.2	32.1	26.3
K2	27.1	6.6	31.1	40.9	18.7	33.3	26.3
Mean (±0.81)	26.3	7.3	31.2	38.6	20.0	32.8	26.0
TOTAL OF 2 CUTS							
(±2.71)							(±1.10)
K0	56.2	47.5	85.8	90.2	69.4	93.5	73.7
K1	61.1	50.1	92.7	98.0	71.2	86.9	76.7
K2	62.0	46.6	87.1	94.0	67.9	89.5	74.5
Mean (±1.56)	59.8	48.1	88.5	94.1	69.5	89.9	74.9

Mean D.M. %: 1st cut 24.3
 2nd cut 29.6
 Total of 2 cuts 26.9