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Yields of the Field Experiments 1948

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Outside Experiments - Lady Manners School

Rothamsted Research

Rothamsted Research (1949) *Outside Experiments - Lady Manners School* ; Yields Of The Field Experiments 1948, pp 96 - 97

48/Da/1

MEADOW HAY

17th Season

Direct and residual effects of mixed artificials and compost.

Lady Manners School, Bakewell 1948

System of replication: 4 randomized blocks of 9 plots each

Area of each plot: 0.00492 acre

Treatments: 3 x 3 factorial design.

No manure, mixed artificials (2 cwt nitrate of soda, 3 cwt superphosphate and 1 cwt muriate of potash per acre), 8 tons per acre compost applied in alternate years from 1932 to 1948 or from 1933 to 1947.

Basal Manuring: None

Soil: Limestone

Cultivations: Compost and artificials applied: Mar 22. Harvested: July 1.

Standard error per plot: ± 7.02 cwt. per acre or 16.0% (24 d.f.)

Hay: cwt. per acre

Alternate years 1932 - 1948	Alternate years 1933 - 1947			Mean	Increase
	No Manure	NPK	Compost		
		(± 3.51)		(± 2.03)	(± 2.87)
No manure	29.9	27.7	43.5	33.7	
NPK	41.7	44.0	49.0	44.9	11.2
Compost	51.2	54.4	53.1	52.9	19.2
Mean (± 2.03)	41.0	42.0	48.5	43.8	
Increase (± 2.87)		1.0	7.5		

48/Da/2

MEADOW HAY

18th Season

Effects of nitrate of soda, superphosphate and muriate of potash

Lady Manners School, Bakewell 1948

System of replication: 3 randomized blocks of 8 plots each.

Area of each plot: 0.00723 acre

Treatments: 2 x 2 x 2 factorial design

Nitrate of soda: None, 2 cwt per acre

Superphosphate: None, 3 cwt per acre

Muriate of Potash: None, 1 cwt per acre

Basal Manuring: None

Soil: Limestone.

Artificials applied: Mar 22. Harvested: June 30

Standard error per plot: ± 7.08 cwt per acre of 21.2% (14 d.f.)

Hay: cwt per acre

Mean yield 33.3

Responses to treatments (± 4.09 Means ± 2.89)

	Mean	Nitrate of soda		Superphosphate		Muriate of potash	
		Absent	Present	Absent	Present	Absent	Present
Nitrate of Soda	7.2	-	-	7.4	7.0	2.5	11.9
Super-phosphate	3.7	3.9	3.5			-1.2	8.6
Muriate of potash	9.1	4.4	13.8	4.2	14.0	-	-