

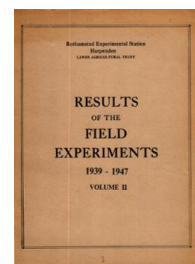
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Yields of the Field Experiments 1939-1947 Volume 2

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R Flax Series

Rothamsted Research

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R/1

FLAX

Long Hoos 1942
Long Hoos 1943
Sawyers I 1944

Effects of sulphate of ammonia, superphosphate, muriate of potash and agricultural salt (the latter in 1942 and 1943 only). These three experiments form part of a country wide series of 39 similar experiments.

Designs; 1942, 1943: 4 randomized blocks of 8 plots each, the third order interactions being confounded with block differences.
 1944: 4 randomized blocks of 8 plots each.

Area of each plot: 1942, 0.0141 acre
 1943, 0.0196 acre
 1944, 0.0200 acre

Treatments

All years: Sulphate of ammonia: None, 0.2 cwt. N per acre
 Superphosphate: None, 0.5 cwt. P₂O₅ per acre
 Muriate of potash: None, 0.75 cwt. K₂O per acre
 1942, 1943: Agricultural salt: None, 3.00 cwt. per acre.

Crop Notes

	Seed sown	Harvested (hand pulled)	Variety	Previous crop
1942	April 13	July 15-20	Liral Monarch	Barley
1943	March 29	July 9-15	Liral Monarch	Sugar beet
1944	April 10	July 24-27	Liral Prince	Wheat

Standard errors per plot:

	1942		1943		1944	
	cwt. per acre	%	cwt. per acre	%	cwt. per acre	%
Total produce	3.76	16.5	2.66	8.2	2.06	5.6
Seed	0.669	28.9	0.305	8.5	0.68	18.2
Scutched flax Retted	-	-	-	-	0.44	11.7
Scutched flax Green	0.525	17.8	0.802	17.6	0.49	8.7
All based on	14 d.f.		14 d.f.		21 d.f.	

R/2

Flax

1942 Differential Responses, cwt. per acre

	Mean	Sulph. of amm.		Superphosphate		Mur. of Pot.		Salt	
		Abs.	Pres.	Abs.	Pres.	Abs.	Pres.	Abs.	Pres.
Total produce. Mean yield 22.74 cwt. per acre									
	±1.33	±1.88							
Sulph. amm.	2.58	-	-	3.29	1.87	0.84	4.32	1.47	3.69
Super.	0.36	1.07	-0.35	-	-	0.44	0.28	1.23	-0.51
Mur. pot.	0.20	-1.54	1.94	0.28	0.12	-	-	2.66	-2.26
Salt	2.02	0.91	3.13	2.89	1.15	4.48	-0.44	-	-

Seed. Mean yield 2.31 cwt. per acre

	±0.237	±0.335							
Sulph. amm.	-0.07	-	-	-0.14	0.00	-0.44	0.30	-0.50	0.36
Super.	0.37	0.30	0.44	-	-	0.20	0.54	0.58	0.16
Mur. pot.	-0.09	-0.46	0.28	-0.26	0.08	-	-	-0.18	0.00
Salt	0.25	-0.18	0.68	0.46	0.04	0.16	0.34	-	-

Scutched flax (green) Mean yield 2.94 cwt. per acre

	±0.185	±0.262							
Sulph. amm.	0.77	-	-	0.61	0.93	0.57	0.97	0.57	0.97
Super.	0.20	0.04	0.36	-	-	0.06	0.34	0.38	0.02
Mur. pot.	-0.20	-0.40	0.00	-0.34	-0.06	-	-	0.33	-0.73
Salt	0.44	0.24	0.64	0.62	0.26	0.97	-0.09	-	-

1943

Total produce. Mean yield 32.2 cwt. per acre

	±0.940	±1.33							
Sulph. amm.	3.7	-	-	5.2	2.2	3.2	4.2	3.2	4.2
Super.	1.3	2.8	-0.2	-	-	2.4	0.2	-0.1	2.7
Mur. pot.	-1.7	-2.2	-1.2	-0.6	-2.8	-	-	-1.7	-1.7
Salt	1.1	0.6	1.6	-0.3	2.5	1.1	1.1	-	0

Seed. Mean yield 3.59 cwt. per acre

	±0.108	±0.153							
Sulph. amm.	0.38	-	-	0.54	0.22	0.36	0.40	0.39	0.37
Super.	0.06	0.22	-0.10	-	-	0.20	-0.08	-0.07	0.19
Mur. pot.	-0.16	-0.18	-0.14	-0.02	-0.30	-	-	-0.13	-0.19
Salt	0.19	0.20	0.18	0.06	0.32	0.22	0.16	-	-

Scutched flax (green) Mean yield 4.57 cwt. per acre

	±0.284	±0.402							
Sulph. amm.	0.38	-	-	0.32	0.44	0.11	0.65	0.06	0.70
Super.	0.21	0.15	0.27	-	-	0.50	-0.08	0.13	0.29
Mur. pot.	0.05	-0.22	0.32	0.34	-0.24	-	-	0.03	0.07
Salt	-0.09	-0.41	0.23	-0.17	-0.01	-0.11	-0.07	-	-

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R/3

1944. Differential Responses, cwt. per acre

	Mean	Sulph. of amm.		Superphosphate		Mur. of Pot.	
		Abs.	Pres.	Abs.	Pres.	Abs.	Pres.
Total produce. Mean yield 37.0 cwt. per acre							
	±0.73				±1.03		
Sulph. amm.	1.7	-	-	1.1	2.3	1.7	1.7
Super.	-1.0	-1.6	-0.4	-	-	1.2	-3.2
Mur. of Pot.	1.1	1.1	1.1	3.3	-1.1	-	-

Seed. Mean yield 3.72 cwt. per acre

	Mean	Sulph. of amm.		Superphosphate		Mur. of Pot.	
		Abs.	Pres.	Abs.	Pres.	Abs.	Pres.
Seed. Mean yield 3.72 cwt. per acre							
	±0.24				±0.34		
Sulph. amm.	-0.04	-	-	0.25	-0.33	0.14	-0.22
Super.	0.36	0.65	0.07	-	-	0.33	0.39
Mur. of Pot.	0.52	0.70	0.34	0.49	0.55	-	-

Scutched flax (retted) Mean yield 3.74 cwt. per acre

	Mean	Sulph. of amm.		Superphosphate		Mur. of Pot.	
		Abs.	Pres.	Abs.	Pres.	Abs.	Pres.
Scutched flax (retted) Mean yield 3.74 cwt. per acre							
	±0.15				±0.21		
Sulph. amm.	0.18	-	-	0.24	0.12	0.35	0.01
Super.	-0.34	-0.28	-0.40	-	-	-0.21	-0.47
Mur. of Pot.	-0.10	0.07	-0.27	0.03	-0.23	-	-

Scutched flax (Green) Mean yield 5.58 cwt. per acre

	Mean	Sulph. of amm.		Superphosphate		Mur. of Pot.	
		Abs.	Pres.	Abs.	Pres.	Abs.	Pres.
Scutched flax (Green) Mean yield 5.58 cwt. per acre							
	±0.17				±0.24		
Sulph. amm.	0.20	-	-	-0.10	0.50	0.15	0.25
Super.	-0.23	-0.53	0.07	-	-	0.03	-0.49
Mur. of Pot.	0.08	0.03	0.13	0.34	-0.18	-	-