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Yields of the Field Experiments 1954

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54/R/BC/1 Ley and Arable Rotations

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54/Bc/1.1

LEY AND ARABLE ROTATIONS

Highfield and Fosters Field 1954 - the 6th year.

For details of treatments, rotations, etc., see "Results of the Field Experiments 1952", Section Bc/1.

Cultivations, etc.:

HIGHFIELD

1st year Treatment Crops

Cut grass, Grazed ley, Lucerne, Hay. Ploughed: Aug 31 and for leys again, Oct 3, 1953. Basal fertilizer applied: Hay plots - Dec 2, remainder - Apr 7, 1954.

Cut grass: Nitrochalk applied, seeds sown at 38 lb per acre: Apr 7, 1954. Cut: 4 times - June 21, July 21, Aug 11, Oct 11.

Nitrochalk applied after each cut except the last.

Grazed ley: Nitrochalk applied, seeds sown at 55 lb per acre: Apr 7.

Nitrochalk applied: June 28. Grazed: 9 circuits, June 13-Oct 20.

Lucerne: Seed drilled at 28 lb per acre: Apr 9. Cut twice: Aug 11 and Nov 18. Variety: Du Puits.

Hay: Undersown seeds failed. Resown at 38 lb per acre: Sept 18, 1953.

Nitrochalk applied: Apr 2, 1954. Cut: June 22.

2nd year Treatment Crops

Cut grass, Grazed ley, Lucerne, Potatoes. Basal fertilizer to leys applied: Dec 2, 1953.

Cut grass: Nitrochalk applied: Apr 2, 1954 and after each cut except the last. Cut: 5 times, May 20, June 21, July 22, Aug 17, Oct 11.

Grazed ley: Nitrochalk applied: Apr 6 and July 7. Grazed: 10 circuits, Apr 13 - Oct 20.

Lucerne: Cut: 3 times, June 23, Aug 11, Nov 18.

Potatoes: For cultivations see Potato Test Crop.

3rd year Treatment Crops

Cut grass, Grazed ley, Lucerne, Barley. Basal fertilizer to leys applied: Dec 2, 1953.

Cut grass: Nitrochalk applied: Apr 2, 1954 and after each cut except the last. Cut: 5 times, May 20, June 21, July 23, Aug 17, Oct 8.

Grazed ley: Nitrochalk applied: Apr 2 and June 28. Grazed: 10 circuits, Apr 17 - Oct 20.

Lucerne: Cut: 3 times, June 22, Aug 11, Oct 8.

Barley: For cultivations see Barley Test Crop.

54/Bc/1.2

1st Test Crop, Wheat

Ploughed after barley: Aug 31 and again Oct 3, 1953. Ploughed leys: Oct 16. Seed drilled at 3 bushels per acre with basal fertilizer: Oct 22. Nitrochalk applied: Apr 27, 1954. Combine harvested: Sept 2 and 7. Variety: Yeoman.

2nd Test Crop, Potatoes

Ploughed: Aug 24 and again Oct 26, 1953. Ridged, basal fertilizers applied: Apr 20, 1954. Dung and sulphate of ammonia applied, potatoes planted: Apr 22. Earthed up: July 9. Sprayed with copper fungicide, low volume, 5 lb in 10 gallons per acre: July 28 and again Aug 23. Sprayed with 20% sulphuric acid: Sept 30. Lifted: Oct 26. Variety: Majestic.

3rd Test Crop, Barley

Ploughed: Oct 3, 1953. Ground chalk applied to blocks 2 and 3: Dec 3. Seed drilled at 2 bushels per acre with basal fertilizer, nitrochalk applied: Mar 17, 1954. Combine harvested: Sept 3. Variety: Proctor. Note. Crop yields were not taken owing to the condition of the crop after being laid since early July.

Permanent Grasses

- 4th year Reseeded. Permanent grass, Blocks 9-12.
Basal fertilizers applied: Dec 2, 1953. Nitrochalk applied: Apr 7, 1954 and July 7. Grazed: 8 circuits, Apr 21 - Oct 28.
- 5th year Reseeded. Permanent grass, Blocks 5-8.
Basal fertilizers applied: Dec 2, 1953. Nitrochalk applied: Apr 6 and June 28. Reseeded, grazed: 9 circuits, Apr 13 - Oct 28.
Permanent, grazed: 8 circuits, Apr 13 - Oct 20.
- 6th year Reseeded. Permanent grass, Blocks 1-4.
Basal fertilizers applied: Dec 2, 1953. Nitrochalk applied: Apr 2.
Cut: June 22. Nitrochalk applied: June 25. Grazed: 4 circuits, July 16 - Oct 28.

FOSTERS

1st year Treatment Crops

- Cut grass, Grazed ley, Lucerne, Hay. Ploughed (not hay plots): Aug 20, 1953 and again Sept 24. Basal fertilizer applied: Hay plots - Dec 1, remainder - Apr 7.
- Cut grass: Nitrochalk applied, seeds sown at 38 lb per acre: Apr 7, 1954. Cut: 4 times, June 29, July 20, Aug 13, Oct 11. Nitrochalk applied after each cut except the last.
- Grazed ley: Nitrochalk applied, seeds sown at 55 lb per acre: Apr 7. Nitrochalk applied: June 29. Grazed: 7 circuits, May 7 - Oct 21.
- Lucerne: Seed drilled at 28 lb per acre: Apr 9. Cut twice: Aug 16, Nov 18. Variety: Du Puits.
- Hay: Seeds undersown in barley at 38 lb per acre: May 4, 1953. Nitrochalk applied: Apr 1, 1954. Cut: June 23.

54/Bc/1.3

2nd year Treatment Crops

Cut grass, Grazed ley, Lucerne, Potatoes. Basal fertilizers to leys applied: Dec 1, 1953.

Cut grass: Nitrochalk applied: Apr 1, 1954 and after each cut except the last. Cut: 5 times, May 21, June 21, July 20, Aug 16, Oct 11.

Grazed ley: Nitrochalk applied: Apr 5 and July 9. Grazed: 10 circuits, May 7 - Oct 21.

Lucerne: Cut: 3 times, June 23, Aug 16, Nov 18.

Potatoes: For cultivations see Potato Test Crop.

3rd year Treatment Crops

Cut grass, Grazed ley, Lucerne, Barley. Basal fertilizer to leys applied: Dec 1, 1953.

Cut grass: Nitrochalk applied: Apr 1, 1954 and after each cut except the last. Cut: 5 times, May 21, June 21, July 20, Aug 16, Oct 8.

Grazed ley: Nitrochalk applied: Apr 5 and June 29. Grazed: 8 circuits, May 7 - Oct 21.

Lucerne: Cut: 3 times, June 24, Aug 16, Oct 8.

Barley: For cultivations see Barley Test Crop.

1st Test Crop, Wheat

Ploughed after barley: Aug 20, 1953 and again Sept 29. Ploughed leys: Oct 17. Seed drilled at 3 bushels per acre with basal fertilizer: Oct 22. Nitrochalk applied: Apr 28, 1954. Combine harvested: Sept 1. Variety: Yeoman.

2nd Test Crop, Potatoes

Ploughed: Aug 21, 1953 and again Oct 24. Ridged, basal fertilizers applied: Apr 20, 1954. Dung and sulphate of ammonia applied, potatoes planted: Apr 21. Earthed up: July 6. Sprayed with copper fungicide, low volume, 5 lb in 10 gallons: July 28 and again Aug 23. Sprayed with 1% sulphuric acid: Sept 29. Lifted: Oct 9 and Oct 16. Variety: Majestic.

3rd Test Crop, Barley

Ploughed: Oct 2, 1953. Nitrochalk applied: Mar 16, 1954. Seed sown at 2 bushels per acre with basal fertilizer: Mar 17. Combine harvested: Sept 2. Variety: Proctor.

Permanent grasses

4th year reseeded grass

Basal fertilizer applied: Dec 1, 1953. Nitrochalk applied: Apr 7, 1954 and July 9. Grazed: 7 circuits, May 7 - Oct 21.

5th year reseeded grass

Basal fertilizer applied: Dec 1, 1953. Nitrochalk applied: Apr 5, 1954 and June 29. Grazed: 7 circuits, May 7 - Oct 21.

6th year reseeded grass

Basal fertilizer applied: Dec 2, 1953. Nitrochalk applied: Apr 1, 1954. Cut: June 23. Nitrochalk applied: June 25. Grazed: 4 circuits, July 25 - Oct 21.

54/Bc/1.4

Standard errors per $\frac{1}{4}$ plot. Test crops.

Wheat, grain (at 85% dry matter). Highfield: 2.48 cwt per acre or 8.9% (13 d.f.)
 Fosters: 1.82 cwt per acre or 5.2% (13 d.f.)
 Potatoes, total tubers. Highfield: 1.073 tons per acre or 10.1% (15 d.f.)
 Fosters: 0.876 tons per acre or 8.6% (15 d.f.)
 Barley, grain (at 85% dry matter). Highfield: Crop failed
 Fosters: 1.87 cwt per acre or 4.2% (15 d.f.)

Summary of Results

cwt N per acre	Wheat 1st test crop				Mean
	Previous rotation 1951, 1952, 1953				
	Lucerne	Ley	Cut Grass	Arable with hay	
Grain (at 85% Dry Matter): cwt per acre					
<u>Highfield</u>					
Mean	28.6	32.7	22.7	27.9	28.0
To test crop					
0.3	29.5	34.8	24.8	28.6	29.4
0.6	27.8	30.6	20.6	27.1	26.5
Difference (± 1.75)	-1.7	-4.2	-4.2	-1.5	-2.9 (± 0.88)
To treatment crops					
Single rate		35.5	25.7	24.8	28.7
Double rate		29.9	19.7	30.9	26.8
Difference (± 1.75)		-5.6	-6.0	+6.1	-1.9 (± 1.01)
<u>Fosters</u>					
Mean	37.4	39.5	38.2	24.7	35.0
To test crop					
0.3	36.0	37.6	38.4	23.9	34.0
0.6	38.7	41.5	38.0	25.6	36.0
Difference (± 1.28)	+2.7	+3.9	-0.4	+1.7	+2.0 (± 0.64)
To treatment crops					
Single rate		39.4	39.1	22.3	33.6
Double rate		39.7	37.4	27.1	34.7
Difference (± 1.28)		+0.3	-1.7	+4.8	+1.1 (± 0.74)

Wheat 1st test crop

54/Bc/1.5

cwt N per acre	Excluding Lucerne N to previous treatment crop			Arable with hay only Dung: tons per acre to potatoes 1952		
	Single rate	Double rate	Mean	None	12	Mean

Grain (at 85% Dry Matter): cwt per acre

Highfield

To test crop	(±1.01)		(±0.71)	(±1.75)		(±1.24)
0.3	30.6	28.2	29.4	29.2	28.0	28.6
0.6	26.8	25.4	26.1	22.6	31.7	27.1
Mean	28.7	26.8	27.8	25.9	29.9	27.9
	(±0.71)			(±1.24)		
To previous treatment crops				(±1.75)		(±1.24)
Single rate				25.8	23.9	24.8
Double rate				26.0	35.8	30.9
Mean				25.9	29.9	27.9
				(±1.24)		

Fosters

To test crop	(±0.74)		(±0.52)	(±1.28)		(±0.91)
0.3	32.7	33.9	33.3	24.0	23.8	23.9
0.6	34.5	35.5	35.0	28.1	23.1	25.6
Mean	33.6	34.7	34.2	26.1	23.4	24.7
	(±0.52)			(±0.91)		
To previous treatment crops				(±1.28)		(±0.91)
Single rate				25.0	19.7	22.3
Double rate				27.1	27.1	27.1
Mean				26.1	23.4	24.7
				(±0.91)		

<u>Wheat 1st test crop</u>					54/Bc/1.6
cwt N per acre	Previous rotation 1951, 1952, 1953				Mean
	Lucerne	Ley	Cut Grass	Arable with hay	

Straw (at 85% Dry Matter): cwt per acre

<u>Highfield</u>					
Mean	48.1	45.9	32.8	43.8	42.7
To test crop					
0.3	47.3	44.0	34.1	46.4	42.9
0.6	49.0	47.8	31.5	41.2	42.4
Difference	+1.7	+3.8	-2.6	-5.2	-0.5
To treatment crops					
Single rate		53.7	35.6	45.5	45.0
Double rate		38.1	29.9	42.1	36.7
Difference		-15.6	-5.7	-3.4	-8.3
<u>Fosters</u>					
Mean	61.6	55.9	50.6	47.9	54.0
To test crop					
0.3	61.2	53.0	48.9	43.7	51.7
0.6	62.1	58.8	52.3	52.2	56.3
Difference	+0.9	+5.8	+3.4	+8.5	+4.6
To treatment crops					
Single rate		56.9	51.2	46.8	51.6
Double rate		54.9	50.1	49.1	51.4
Difference		-2.0	-1.1	+2.3	-0.2

Wheat 1st test crop

54/Bc/1.7

cwt N per acre	Excluding Lucerne N to previous treatment crop			Arable with hay only Dung: tons per acre to potatoes 1952		
	Single rate	Double rate	Mean	None	12	Mean

Straw (at 85% Dry Matter): cwt per acre

Highfield

To test crop						
0.3	46.0	37.0	41.5	46.2	46.7	46.4
0.6	43.9	36.5	40.2	41.5	40.9	41.2
Mean	45.0	36.7	40.8	43.8	43.8	43.8
To previous treatment crops						
Single rate				46.9	44.2	45.5
Double rate				40.8	43.4	42.1
Mean				43.8	43.8	43.8

Fosters

To test crop						
0.3	49.1	48.0	48.5	40.5	46.9	43.7
0.6	54.1	54.7	54.4	51.6	52.7	52.2
Mean	51.6	51.4	51.5	46.0	49.8	47.9
To previous treatment crops						
Single rate				45.6	47.9	46.8
Double rate				46.5	51.7	49.1
Mean				46.0	49.8	47.9

54/Bc/1.8

Potatoes 2nd test crop. Total tubers: tons per acre

	Previous rotation 1950, 1951, 1952				Mean																									
	Lucerne	Ley	Cut Grass	Arable with hay																										
<u>Highfield</u>																														
N: cwt per acre																														
0.5	9.88	10.90	10.42	10.41	10.40																									
1.0	11.04	11.15	10.41	10.94	10.89																									
Difference (± 0.759)	+1.16	+0.25	-0.01	+0.53	+0.49 (± 0.379)																									
Dung: tons per acre																														
None	8.89	9.18	8.87	8.59	8.88																									
12	12.03	12.88	11.95	12.76	12.40																									
Difference (± 0.759)	+3.14	+3.70	+3.08	+4.17	+3.52 (± 0.379)																									
Mean	10.46	11.03	10.41	10.68	10.64																									
<u>Fosters</u>																														
N: cwt per acre																														
0.5	9.58	9.63	9.22	10.17	9.65																									
1.0	10.82	10.73	9.80	11.52	10.72																									
Difference (± 0.619)	+1.24	+1.10	+0.58	+1.35	+1.07 (± 0.310)																									
Dung: tons per acre																														
None	7.59	9.23	7.74	9.75	8.58																									
12	12.81	11.12	11.28	11.95	11.79																									
Difference (± 0.619)	+5.22	+1.89	+3.54	+2.20	+3.21 (± 0.310)																									
Mean	10.20	10.18	9.51	10.85	10.18																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th colspan="2">Highfield</th> <th colspan="2">Fosters</th> </tr> <tr> <th>N: cwt per acre</th> <th>0.5</th> <th>1.0</th> <th>0.5</th> <th>1.0</th> </tr> </thead> <tbody> <tr> <td>Dung: tons per acre</td> <td colspan="2" style="text-align: center;">(± 0.379)</td> <td colspan="2" style="text-align: center;">(± 0.310)</td> </tr> <tr> <td>None</td> <td>8.63</td> <td>9.14</td> <td>7.99</td> <td>9.17</td> </tr> <tr> <td>12</td> <td>12.18</td> <td>12.63</td> <td>11.31</td> <td>12.27</td> </tr> </tbody> </table>							Highfield		Fosters		N: cwt per acre	0.5	1.0	0.5	1.0	Dung: tons per acre	(± 0.379)		(± 0.310)		None	8.63	9.14	7.99	9.17	12	12.18	12.63	11.31	12.27
	Highfield		Fosters																											
N: cwt per acre	0.5	1.0	0.5	1.0																										
Dung: tons per acre	(± 0.379)		(± 0.310)																											
None	8.63	9.14	7.99	9.17																										
12	12.18	12.63	11.31	12.27																										

54/Bc/1.9

Potatoes 2nd test crop. Percentage ware

	Previous rotation 1950, 1951, 1952				Mean																														
	Lucerne	Ley	Cut Grass	Arable with hay																															
<u>Highfield</u>																																			
N: cwt per acre																																			
0.5	82.6	81.2	81.0	82.1	81.7																														
1.0	84.4	81.2	77.8	82.8	81.6																														
Difference	+1.8	0.0	-3.2	+0.7	-0.1																														
Dung: tons per acre																																			
None	79.3	79.6	80.0	78.9	79.5																														
12	87.6	82.8	78.7	86.0	83.8																														
Difference	+8.3	+3.2	-1.3	+7.1	+4.3																														
Mean	83.5	81.2	79.4	82.5	81.6																														
<u>Fosters</u>																																			
N: cwt per acre																																			
0.5	83.6	83.2	84.3	84.5	83.9																														
1.0	84.4	78.5	83.0	86.4	83.1																														
Difference	+0.8	-4.7	-1.3	+1.9	-0.8																														
Dung: tons per acre																																			
None	82.7	80.1	82.8	84.8	82.6																														
12	85.4	81.6	84.5	86.1	84.4																														
Difference	+2.7	+1.5	+1.7	+1.3	+1.8																														
Mean	84.0	80.9	83.6	85.5	83.5																														
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	Highfield		Fosters																																
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Dung: tons per acre																																			
None	79.3	79.6	83.1	82.1																															
12	84.1	83.5	84.7	84.1																															

54/Bc/1.10

Barley 3rd test crop. Grain (at 85% Dry Matter): cwt per acre

	Previous rotation 1949, 1950, 1951				Mean
	Lucerne	Ley	Cut Grass	Arable with hay	
<u>Fosters</u>					
N: cwt per acre					
0.2	46.6	43.5	44.4	44.3	44.7
0.4	44.8	44.5	44.7	45.2	44.8
Difference (± 1.32)	-1.8	+1.0	+0.3	+0.9	+0.1 (± 0.66)
Dung to potatoes 1953: tons per acre					
None	45.8	43.9	44.7	44.6	44.8
12	45.7	44.1	44.4	44.9	44.7
Difference (± 1.32)	-0.1	+0.2	-0.3	+0.3	-0.1 (± 0.66)
Mean	45.7	44.0	44.6	44.7	44.8

	Fosters	
	N: cwt per acre	
	0.2	0.4
	(± 0.66)	
Dung to Potatoes 1953: tons per acre		
None	44.7	44.8
12	44.7	44.8

Note: Highfield: No yields of grain and straw recorded.
Fosters: No straw yields recorded.

54/Bc/1.11

Treatment crops Arable and Hay rotation
(values based on Mean of 2 sub plots only)

	Highfield			Fosters		
	N: cwt per acre applied in 1954			N: cwt per acre applied in 1954		
	Single rate	Double rate	Mean	Single rate	Double rate	Mean
Hay (dry matter): cwt per acre						
No dung	59.1	68.8	63.9	55.1	65.8	60.5
Dung in 1952	62.4	62.3	62.4	58.0	64.5	61.3
Mean	60.7	65.6	63.1	56.6	65.2	60.9
Potatoes, total tubers: tons per acre						
No dung	8.03	8.61	8.32	9.25	10.85	10.05
Dung in 1954	12.11	12.42	12.27	10.59	11.77	11.18
Mean	10.07	10.51	10.29	9.92	11.31	10.61
Potatoes, percentage ware						
No dung	77.8	81.0	79.4	82.6	84.4	83.5
Dung in 1954	79.6	83.1	81.4	88.1	85.6	86.8
Mean	78.7	82.1	80.4	85.4	85.0	85.2
Barley, grain (at 85% dry matter): cwt per acre						
No dung	No yields of grain recorded			41.6	44.2	42.9
Dung in 1953	No yields of grain recorded			43.6	43.3	43.4
Mean	No yields of grain recorded			42.6	43.8	43.2
	No yields of straw recorded			No yields of straw recorded		

54/Bc/1.12

Cut grass. Dry Matter: cwt per acre

1st year	Highfield					Fosters				
	N: to previous 3 test crops		Dung to potatoes 1952 tons per acre		Mean	N: to previous 3 test crops		Dung to potatoes 1952 tons per acre		Mean
	Single rate	Double rate	None	12		Single rate	Double rate	None	12	
N(1) to cut grass										
Single rate	77.4	80.7	77.8	80.3	79.1	60.6	60.0	63.5	57.1	60.3
Double rate	81.6	89.4	89.0	82.1	85.5	73.9	76.4	73.6	76.7	75.1
N to test crops										
Single rate			80.1	78.9	79.5			67.2	67.3	67.3
Double rate			86.6	83.5	85.0			69.8	66.6	68.2
Mean			83.4	81.2	82.3			68.5	66.9	67.7

	Highfield			Fosters		
	N to cut grass (1)		Mean	N to cut grass (1)		Mean
	Single rate	Double rate		Single rate	Double rate	
2nd year (5 cuts)	59.1	75.3	67.2	71.1	76.6	73.8
3rd year (5 cuts)	57.5	72.7	65.1	65.5	74.4	70.0

(1) 0.15 v. 0.3 cwt N as Nitrochalk for every cut.

Lucerne. Dry Matter: cwt per acre

1st year (2 cuts)	Highfield			Fosters		
	N to 3 previous test crops		Mean	N to 3 previous test crops		Mean
	Single rate	Double rate		Single rate	Double rate	
Dung to potatoes 1952						
None	62.0	58.4	60.2	56.3	56.9	56.6
12 tons	57.6	57.3	57.4	56.3	60.6	58.4
Mean	59.8	57.9	58.8	56.3	58.7	57.5

	Highfield	Fosters
2nd year (3 cuts)	Mean 103.8	Mean 97.5
3rd year (3 cuts)	Mean 100.0	Mean 94.4

54/Bc/1.13

Grazed Ley. Dry Matter: cwt per acre (estimated from sampling cuts)

	Highfield			Fosters		
	N: cwt per acre (yearly)		Mean	N: cwt per acre (yearly)		Mean
	Single rate	Double rate		Single rate	Double rate	
	0.15	0.30		0.15	0.30	
1st year	40.8	45.9	43.3	31.2	30.4	30.8
2nd year	39.2	52.2	45.7	40.5	53.4	46.9
3rd year	43.6	48.9	46.2	33.5	36.7	35.1

Reseeded Grass. Dry Matter: cwt per acre

	Cut for hay			Grazed Estimated from sampling cuts		
	N		Mean	N		Mean
	Single rate	Double rate		Single rate	Double rate	
4th year, grazing				49.9	47.6	48.7
5th year, grazing				42.5	45.7	44.1
6th year, hay	55.4	55.5	55.5	17.2*	21.2*	19.2*
	<u>Highfield</u>					
4th year, grazing				41.4	41.6	41.5
5th year, grazing				44.1	43.3	43.7
6th year, hay	46.8	51.8	49.3	20.0*	20.4*	20.2*

Permanent Grass. Dry Matter: cwt per acre

	Highfield					
	Single rate	Double rate	Mean			
Grazing, Blocks 9-12				40.0	39.9	39.9
Grazing, Blocks 5-8				36.6	36.6	36.6
Hay, Blocks 1-4	44.8	47.1	45.9	19.7*	20.7*	20.2*

*Aftermath grazing.