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# Details of the Classical and Long-term Experiments Up to 1962



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## **Hoosfield-Barley**

#### **Rothamsted Research**

Rothamsted Research (1966) *Hoosfield-Barley*; Details Of The Classical And Long-Term Experiments Up To 1962, pp 10 - 12 - **DOI:** https://doi.org/10.23637/ERADOC-1-191

### HOOSFIELD BARLEY 1852 ONWARDS

Before the experiment started the land carried turnips (dung and superphosphate) 1847, barley 1848, clover 1849, wheat 1850, barley (ammonium salts) 1851. The first experimental crop was harvested in 1852, and with the exception of 1912, 1933, and 1943, when the plots were bare fallowed, barley has been grown every year since. The manurial treatments are:

Table 3
Manures per acre 1852 onwards unless otherwise stated
Treatment

			Tr	eatm						
Plot Number	D tons	$P_2O_5$ lb.	K K <sub>2</sub> O lb.	Na lb.	Mg 1b.	Si lb.	N N lb	N N lb	R .N lb	Notes
		(1)	(2)	(2)				(4)		
1.0		OROLI S. W.	a Co Option	900	-	7-2	dia :	950	-	
2.0	-	65	19 TO 8	er i	201	8=	it gi	18. 67	19 -s.	
3.0	-	5 2 2 2	98	100	100	-	2 30	200		
4.0	-	65	98	100	100	- 1	iq 3	1-5	-	(7)
5.0	_	65	98		22	-	2	7 -03	-	
1A	-	-			70	-	43	9117	10.50	
<b>2</b> A	-	65	g =	-	-	-	43	- 93	7 -	
3A	-		98	100	100	57 E	43	L Terr	-	
4A	-	65	98	100	100	1	43	VELN .	-	
1AA	-	E D CITE	6 4 9 2		-	-	-	43	11 8	
2AA	-	65	E-4-1-16	2 - 2 - 3	2- 4	-	-	43		
3AA	-	-	98	100	100	-	-	43	Tala	
- 4AA	-	65	98	100	100	-	-	43	-1	
1AAS	-	- 0 0 10	+ 7 2 2	o Pilo		400	Tin a	43	-	
2AAS	-	65	A R-1-1	-	- 1	400	-	43	-	
3AAS	7	7 Table 1	98	100	100	400	-	43	-	
4AAS	-	65	98	100	100	400	-100	43		
1C	2 15	100		-	-	-	-	-	43	
2C	-	65	10.00	-	-	-	-	-	43	
3C	-	-3 Z	98	100	100	112	-	-	43	
4C	- 1	65	98	100	100	-	-	- 33	43	
7 - 1	-	-	-1-1	-	-	-	- 1	- 1	- 8	(8)
7-2	14	1-	-	-	-	-	- "	- 11	-	
6-1	-	-	-	-	-	-	-	-	11-1	
6-2	-	-	8.4	-	100	-	-	-	-	(9)
1N	-	- 1	3 - 4	9-	-	-	415	43	-	(10)
2 N	-	27 8 33 8	8 7 N. 3.	4-1	0-10	1	-	43	-	(11)

Plot areas: Mostly 0.18 acres, none less than 0.09 acres.

Treatments: D: farmyard manure. P: superphosphate. K: sulphate of potash. Na: sulphate of soda. Mg: sulphate of magnesia. Si: silicate of soda. N: sulphate of ammonia. N: nitrate of soda. R: castor meal.

HOOS BARLEY

#### Notes:

(1) Until 1887 made from 200 lb. bone ash and 150 lb. sulphuric acid. 1888-1897 from rock phosphate. 1898-1902 basic slag.

From 1852-1857 the K20 was 147 lb. and the sulphate of soda

200 lb. per acre.

(3) Until 1916 the ammonium salts were equal parts of ammonium sulphate and chloride. From 1917 onwards only ammonium sulphate has been used.

(4) The nitrate of soda treatment in the AA and AAS series started in 1868. Originally ammonium salts at 86 lb. N 1852-1857; the dressing of ammonium salts was halved from 1858-1867.

(5) Silicate at 200 lb. sodium silicate and 200 lb. calcium silicate per acre was first applied in 1862: since 1868 400 lb. sodium silicate was given.

(6) 2000 lb. rape cake per acre until 1857, 1000 lb. until 1940, 1000 lb. castor meal 1941-1954; since 1955 the castor meal was adjusted to supply 43 lb. N per acre.

(7) Ammonium salts also in 1852 only.

(8) 1852-1871 14 tons dung.

(9) Until 1932 this plot received ashes from the laboratory furnace, subsequently no manure of any kind has been given.

(10) In 1852 plots 1N and 2N had 65 lb. P205 and 147 lb. K20 but no

nitrogen; the nitrate of soda treatment began in 1853.

(11) 86 lb. N 1853-1857.

Variety: From 1917 onwards the variety has been Plumage Archer. Previously Chevalier 1852-1880, Archers Stiff Straw 1881-1890, Carters Paris Prize 1891-1897, Archers Stiff Straw 1898-1916. In 1929-1932 the plots were drilled in 18" rows to allow inter-row cultivation. Alternate strips of Plumage Archer and Spratt Archer were compared during this period.

Weed Control: Commencing in 1944 the barley was sprayed with DNOC until 1956; since 1957 various selective weedkillers have 1958 and 1959 the stubble was sprayed in autumn with

2,4-D to check coltsfoot (Tussilago farfara).

Plot areas were reduced by pre-harvest cuts in 1948, 1952, 1954, and 1955 to control wild oats (Avena fatua) which were hand pulled in the reduced area taken for yield. In 1953 the wild oats were so bad that the whole field was cut green and the produce removed.

Liming: In winter 1954-1955 5 tons of chalk per acre were applied to Strips 3 and 4 including plots 5A and 5.0. Regular chalk supplements to all plots receiving sulphate of ammonia and castor meal were prescribed at the rate of 100 lb. CaC03 per 14 lb. N as ammonium sulphate and 50 lb. CaC03 per 14 lb. N as castor meal. These supplements are given every 5 years at a rate corresponding to all the sulphate of ammonia and castor meal used over this period. The first dressing was applied in spring 1955. See Rep. Rothamst. exp. Sta. for 1954, pp. 146-148.

Harvesting: Commencing in 1958 the plots were harvested by combine harvester.

For further information on manurial dressings see Memoranda of the Field Experiments 1901, pp. 26-27.

Results: Russell, E.J. & Watson, D.J. (1938). The Rothamsted field experiment on barley 1852-1937. Part I Emp. J. exp. Agric. 6, 268-314; Part II Ibid. 7, 193-220.

HOOS BARLEY

2- 1862- 1872- 1882- 1892- 1902- 1912- 1922- 1931- 1881- 1891- 1911- 1921- 1931- 1931- 1911- 1911- 1921- 1931- 1911- 1911- 1911- 1921- 1931- 1911- 1911- 1921- 1931- 1911- 1911- 1921- 1931- 1911- 1911- 1921- 1931- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 1922- 192				(4)	Crain St	Grain   Straw	
NAME	1902-				4		No. of
NKNAME   12.5   10.2   7.8   6.0   4.8   5.5   7.5   3.8   9.0     PKNAME   12.5   10.2   7.8   6.0   4.8   5.5   7.5   3.8   9.0     NKNAME   12.3(a)   10.9   7.5   7.4   6.2   6.9   7.3   4.8   10.9     NKNAME   12.3(a)   10.9   7.5   7.4   6.2   6.9   7.3   4.8   10.9     NKNAME   17.8   17.8   17.8   17.0   15.8   10.7   11.2   5.4   10.4     NFKAAME   23.2   23.8   20.9   20.0   18.0   20.1   18.2   13.1   20.9     N N NAME   24.0   24.0   21.1   21.0   14.1   15.2   6.1   13.3   11.6     N N NAME   24.0   21.1   21.0   14.1   15.2   6.1   13.1   22.0     N N NAME   24.0   21.1   21.0   14.9   14.9   14.9   14.9     SN KNAME   25.5   23.6   22.1   20.2   21.4   17.9   14.1   23.1     SN KNAME   22.5   19.4   17.5   16.7   14.9   14.9   14.9     RKNAME   23.7   21.2   19.1   17.1   18.3   14.6   14.8   21.3     SN KNAME   22.1   22.4   19.0   16.8   15.5   14.2   8.4   16.7     D until 1871   22.7   26.7   23.7   21.2   19.1   17.1   18.3   14.6   14.8   21.3     O until 1871   22.7   26.7   25.7   23.7   22.8   23.6   18.6   15.0   26.1     O   12.6   6.9   7.7   5.6   5.4   8.2   3.4   8.7     N   19.0(b) 18.8   15.6   14.1   13.0   17.6   14.1   15.5   14.1   15.5   14.1   15.5   14.1     O   12.6   6.9   7.7   5.6   5.4   8.2   3.4   8.7     O   12.6   6.9   7.7   5.6   5.4   8.2   3.4   8.7     O   12.6   6.9   7.7   6.5   6.1   7.1   6.9   4.4   8.9     O   12.6   6.9   7.7   6.5   6.1   7.1   6.9   4.4   8.9     O   12.6   6.9   7.7   6.5   6.1   7.1   6.9   4.4   8.9     O   12.6   6.9   7.7   6.5   6.1   7.1   6.9   4.4   8.9     O   12.6   6.9   7.7   6.5   6.9   7.1   6.9   7.1   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.0   7.	3 5.2	-		7.4	7.0	4.9	107
FKNamg   12.5   10.2   7.8   6.0   4.8   5.5   7.5   3.8   9.0     PKNamg   15.3   12.4   8.8   8.2   6.6   8.4   10.9   6.4   13.5     N	8.3			10.6	10.1	9.8	101
PKNaMg   15.3   12.4   8.8   8.2   6.6   8.4   10.9   6.4   13.5   12.3(a)   10.9   7.5   7.4   6.2   6.9   7.3   4.8   10.9   NP   NV   17.0   15.8   13.2   12.0   8.8   10.7   11.2   5.4   10.4   NKNaMg   17.8   17.8   15.0   12.4   11.8   11.0   11.3   6.0   13.2   NFNNaMg   23.2   23.8   20.9   20.0   18.0   20.1   18.2   13.1   20.9   19.5   NV   NV   NV   NV   NV   NV   NV   N	8 5.5			7.6	7.8	0.6	101
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NKNamg  17.0 15.8 13.2 12.0 8.8 10,7 11.2 5.4 10.4  NKNamg  17.8 17.8 15.0 12.4 11.8 11.0 11.3 6.0 13.2  NPKNamg  23.2 23.8 20.9 20.0 18.0 20.1 18.2 13.1 20.9  NPK  NPK  NPK  NPK  NPK  NPK  NPK  NP	6.9		15.	9.9	9.0	10.2	901
NFNNAME  NFN	8 10.7			10.8	11.6	13.2	101
NFNamg  NFKNamg  NFKNamg  NFKNamg  NFKNamg  NFKNamg  NFKNamg  NFNamg	1 16.1		-	16.8 1	17.9	19.4	101
NPKNAME  NPKNAME  NPKNAME  NPKNAME  NPKNAME  NPKNAME  NNAME  NNAM	11.0			13.4	13.1	15.9	101
NPK  NPK  NPK  NPK  NPK  NPK  NPK  NPK	20.1		6	18.9	19.6	22.3	101
A N' NAME  A N'NAME  A N'NAME  A N'NAME  A N'NAME  A N'NAME  A N'NAME  B S S S S S S S S S S S S S S S S S S	1 15.2		2	19,8617.2		81.8	901
A N'Namg  A N'Na	12.6			12.9	15.8 1	15.6	91
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A N'Namg  B N'SI	8 11.6	_		13.9	16.5	16.8	91
AS N Si AS N PSi AS N PSi AS N PSi AS N FNNaMgSi AS N FNNaMg AS N FNNAMG AS N	8 19.8		8	19.9 2	24.1 2	22.8	91
AS N KNamgsi AS N FKNamgsi AS N FKNa	14.9			17.0	16.4	18.4	91
AS N KNamgsi AS N FKNamgsi AS N FKNamgsi AS N FKNamgsi AS N PKNamgsi AS N	3 19.5	1		22.9	21.7 2	23.4	91
RN PKNaMgSi 25.5 23.6 22.1 20.2 21.4 17.9 14.1 23.1 22.  RR 23.4 22.5 19.8 17.5 16.0 17.5 13.5 11.4 18.4 15.  RP 22.9 23.7 21.2 19.1 17.1 18.3 14.6 14.8 21.3 20.  RKNaMg 22.1 22.4 19.0 16.8 15.1 17.4 12.2 10.0 17.6 21.  RPKNaMg 23.8 24.4 21.3 17.8 16.6 19.9 13.0 14.0 21.6 23.  D until 1871 22.7 26.7 23.7 22.9 23.6 18.6 15.0 21.1 26.  O Ashes until 1932 12.1 10.2 7.7 8.2 6.1 7.1 9.9 4.4 8.9 9.  N 18.0(b) 18.8 15.6 15.6 14.1 13.5 11.5 6.2 14.1 14.  N 18.0(b) 20.5 17.9 17.0 16.8 14.8 14.8 9.4 17.5 18.	7 15.5		1	18.3	17.2	19.8	91
RECKNAMG  23.4 22.5 19.8 17.5 16.0 17.5 13.5 11.4 18.4 15.  RECKNAMG  22.1 22.4 19.0 16.8 15.1 17.4 12.2 10.0 17.6 21.  RPKNAMG  22.1 22.4 19.0 16.8 15.1 17.4 12.2 10.0 17.6 21.  Duntil 1871  22.7 26.7 25.7 23.7 22.8 23.6 18.6 15.0 26.1 26.  O Ashea until 1932 12.1 10.2 7.7 8.2 6.1 7.1 9.9 4.4 8.9 9.  N 19.0(b) 18.8 15.6 15.6 14.1 13.5 11.5 6.2 14.1 14.  N 18.0(b) 18.8 15.6 15.6 14.1 13.5 11.5 6.2 14.1 14.  CONTRIBUTE	21.4		-	23.3	22.3 2	24.6	91
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HFKNaMg 22.1 22.4 19.0 16.8 15.1 17.4 12.2 10.0 17.6 17.6 D until 1871 22.7 26.7 25.7 23.7 22.9 23.6 18.6 15.0 25.1 0.0 17.6 D until 1871 22.7 26.7 25.7 23.7 22.9 23.6 18.6 15.0 26.1 O Ashea until 1932 12.1 10.2 7.7 8.2 6.1 7.1 9.9 4.4 8.9 N 18.0(c) 20.5 17.9 17.0 16.8 16.8 16.8 17.1 17.5 17.5 17.5 17.5 17.5 17.5 17.5	1 18.3	9	3	19.5	19.5 2	21.4	101
PFKNaMg 23.8 24.4 21.3 17.8 16.6 19.9 13.0 14.0 21.6 10.0 buntil 1871 22.7 26.7 25.7 23.7 22.9 23.6 11.0 7.0 13.4 buntil 1872 12.1 10.2 7.7 8.2 6.1 7.1 9.9 4.4 8.9 N 18.0(c) 20.5 17.9 17.0 16.8 16.8 14.8 9.4 17.5 17.0 buntil 18.8 15.6 17.9 17.0 16.8 16.8 14.8 9.4 17.5 17.0 buntiling 18.8 15.6 17.0 16.8 16.8 14.8 9.4 17.5 17.5 17.0 buntiling 18.8 15.6 17.0 16.8 16.8 14.8 9.4 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	1 17.4	2	9	17.0	17.4 2	20.1	101
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D 12.7 26.7 25.7 23.7 22.9 23.6 18.6 15.0 26.1 1.0 0.0 0.0 12.6 9.6 6.9 7.7 5.6 5.4 8.2 3.4 8.7 N 19.0(b) 18.8 15.6 15.6 14.1 13.5 11.5 6.2 14.1 N 18.0(c) 20.5 17.9 17.0 16.8 15.8 14.8 9.4 17.5 (c) 17.0 16.8 15.8 15.8 17.0 16.8 15.8 14.8 9.4 17.5 (c) 17.0 16.8 15.8 16.8 17.0 16.8 17.0 16.8 17.8 9.4 17.5 (c) 17.0 16.8 16.8 16.8 16.8 9.4 17.5 (c) 17.0 16.8 16.8 16.8 16.8 17.8 9.4 17.5 (c) 17.0 16.8 16.8 16.8 16.8 17.8 9.4 17.5 (c) 17.0 16.8 16.8 16.8 16.8 9.4 17.5 (c) 17.0 17.0 16.8 9.4 17.5 (c) 17.0 17.5 (c) 17.5 (c) 17.5 (c) 17.0 17.5 (c) 17.0 17.5 (c) 17.5 (c) 17.0 17.5 (c)	6 9.7	0 7.		11.7	12.1 1	13.7	87
Ashes until 1932 12.1 10.2 7.7 8.2 6.1 7.1 9.9 4.4 8.9 N 19.0(b) 18.8 15.6 15.6 14.1 13.5 11.5 6.2 14.1 N 18.0(c) 20.5 17.9 17.0 16.8 16.8 16.8 14.8 9.4 17.5 (c) Omitting 1912 all poles fallowed (a) continuous 18.5	9 23.6	-	-	28.0 2	23.6 2	28.6	101
N 19.0(b) 18.8 15.6 14.1 13.5 11.5 6.2 14.1 1 N 18.0(c) 20.5 17.9 17.0 16.8 16.8 14.8 9.4 17.5 1 Omitting 1912 all pole fallowed (a) contiting 195	5.4	2	4	6.9	7.7	8.8	101
N 19.0(b) 18.8 15.6 15.6 14.1 13.5 11.5 6.2 14.1 1 N 18.0(c) 20.5 17.9 17.0 16.8 16.8 14.8 9.4 17.5 1 Omitting 1912 all plots fallowed (a) contiting 1952	1 7.1	9 4.4	6	8.7	8.4	9.4	100
N   18,0(c) 20,5 17,9 17,0 16,8 16,8 14,8 9,4 17,5 (1) Omitting 1912 all plots fallowed (a) contiting 1952	1 13.5	5 6.	_	12.1	14.1 1	17.3	901
(a) bewolfer stole file 2181 pattitud	16.8		2	15.9	17.7	19.4	101
1933 " " (b) " (c) Omitting	(a) omitting (b)	1852					
(3) " 1943 " " (c) " 1852-1857 (d) " 1852-1867 (plots 1AA, 2AA, 3AA, 4AA. 1AAS, 2AAS, 4AAC, 1AAS, 2AAS, 4AAS, 4AAS	: : 39	1852-1857 1852-1867 (p	lots 1AA, 2A	1, 3AA, 4/	AA. IAAS,	ZAAS,	
" (e)	" (e)	1054 No vie	or conne	1gy			

Table 4 BARLEY - HOOSFIELD 1852-1962