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# Report for 1931



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Woburn Farm: Report

H. G. Miller

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the old, and the tares plot somewhat better than the mustard plot. The results are given in Table VI.

Table VI.—GREEN MANURING EXPERIMENT, Lansome Piece, 1931. WHEAT AFTER GREEN CROPS PLOUGHED IN. Produce per acre.

	Head	Corn.		1
Plot.	Bushels per acre.	Weight per Bushel. lb.	Tail Corn. lb.	Straw, Chaff, etc cwt.
1. Mustard plot : old series	9.8	58.5	3	10.1
2. Tares plot: old series	14.1	56.5	4	16.2
3. Mustard plot: new series	13.0	56.2	15	14.6
4. Tares plot: new series 5. Control: new series (weeds	12.4	53.4	22	22.2
only)	9.1	58.3	2	10.9

The yield of straw from the tares plots exceeds that from the mustard.

### 4.—PERMANENT PASTURE, MANURIAL EXPERIMENT. BROAD MEAD

The five plots in Broad Mead comprising this series were grazed in 1931, no further manurial application being given. All the plots improved considerably through the closer grazing of them with both cattle and sheep, but the finest and best grazed plot was, however, undoubtedly Plot 4 (limed), which again was characterised by the presence of many daisies; these occur only sparsely on the other plots.

#### 5.—FORAGE CROPS, LANSOME FIELD

Mixtures of wheat and beans did well together, and the crops stood up well, except that when tares were used along with wheat, they had the effect of throwing the wheat down.

## WOBURN FARM: REPORT OF H. G. MILLER, 1931

The sowing down of the poorest parts of the farm to grass, commenced the previous year, has now been completed. In April, 1931 Road Piece and Great Hill were sown down under barley. The wet season caused this to grow rankly, and in a few of the low-lying parts of the field it was badly lodged. The grain yields were considerably lower than the appearance of the crop had indicated, and delays arose through wet weather and the demands of the experimental plots.

The following mixtures were sown:

- 25 lb. Provence Lucerne (per acre).
  - 1 ,, Kentish Wild White Clover.
- 25 ,, Provence Lucerne. No. 2.
  - Perennial Birdsfoot Trefoil.
     Wild Trefoil.

No. 3.

(A) 12½ lb. Provence Lucerne.

15 ,, Kentish Indigenous Perennial Ryegrass.1 ,, Kentish Wild White Clover.

As (A), with Grimm Lucerne instead of Provence. (B)

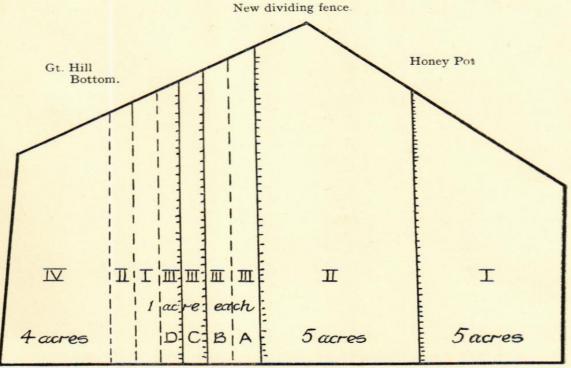
- As (A), with cultivated Wild White Clover instead of (C) Kentish.
- As (B), with cultivated Wild White Clover instead of (D) Kentish.

7 lb. Provence Lucerne. No. 4.

12 , Kentish Indigenous Perennial Ryegrass.
5 , English Grazing Cocksfoot.
2 , Kidney Vetch.

1 ,, Cultivated Wild White Clover.

The division between Road Piece and Great Hill has now been rearranged by grubbing up the old boundary hedge, and erecting a fence at right angles to the Ridgmont Road, this fence dividing the whole 20 acres into two equal areas. The following diagram indicates the relative positions of the different mixtures:



Main road to Ridgmont.

The shading indicates narrow, uninoculated strips, all the rest being inoculated. In the 5 acres of Mixture No. 1 were placed a few small plots of different varieties of lucerne, but the barley above them lodged, and near Honey Pot the young seeds were rather thin and were therefore patched in April, 1932, about 4 acres being done there and on one or two other portions of the field. The estate is now

laying water on to this new grass, to the portion of Road Piece sown down in 1928 and to the 3 acres of Butt Furlong sown in 1930.

The details of the cropping are given on pp. 103-6. Three acres of Brussels sprouts were grown in Butt Close in the hope that we might sell some as well as having the tops for the sheep, but prices were so low that the whole was fed to the animals.

As at Rothamsted, we found that spring oats did considerably better than winter oats in 1930-31; they were, however, sown early under favourable conditions of soil and fertility.

In the spring the Estate carried out their periodical repairs to the farm buildings, and took the opportunity of effecting several notable improvements, extending and improving the accommodation for pigs, putting more windows in the roofs and reconstructing the boundaries of the covered yards. All this has greatly improved the appearance and utility of the buildings.

	Yield per acre.		13 cwt.	15 cwt.	1		see p. 163-5	see p. 160-1	2 tons	thought.
IN, 1931	Carting Dates.		Sept. 20	Sept. 28	Used during winter	pring use	Nov. 4- 18 (lifted)	Nov. 23 (lifted)	June 22	
WOBUR	Cutting Dates.		Aug. 25	Sept. 1	Used	Kept for spring use	ŀ	I	June 13	N IN IN
ER ACRE,	Sowing Dates.		Oct. 20	March 14	July 1-4 (planted)	July 9	May 8	May 9	5 I.C.1. No. 7 Mar. 19, 1930	1
YIELD P	Manuring, cwt. per acre.		5 I.C.I. No. 7 Oct. 20	5 I.C.I. No. 7 March 14	2 N/Soda, 20 tons dung in spring (after 1 N/S	top dressing on rye, Feb.) Do. Do.	see p. 162	see p. 160	5 I.C.1. No. 7	
DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, WOBURN, 1931	Principal Cultivations and Dates.		Oct. 15-17, 1930, plough and	tractor cultivate. Nov. 15, 1930, tractor plough. March 14 harrow.	After rye, grazed & ploughed in. May 16-June 6, plough and roll. July 6, horse hoe. Hand hoe throughout summer.	After rye, grazed and plough in. July 1 plough and roll. July 9 harrow, roll, drill and harrow.	Feb. 21 sow 1 ton Carbonate of lime per acre. March 26 plough. March 31 harrowed and rolled. April 17 simared and harrowed.	April 23 harrowed. May 6 rolled. June 3-July 11 horse and hand hoed. Feb. 21 sow 1 ton Carbonate of Lime per acre. March 26 plough. March 31 twice harrow and roll. May 6 horse rolled. May 7 and 8 horse and rolled by hand. Tune 1	hand hoed. Feb. 21. Sow 1 ton carbonate of lime per acre.	
WING ANI	Variety.		Grey Winter	Garton's Marvellous	I	Thousand Head	Kuhn	Kuhn	It. Ryegrass B. Red Clover	
TES OF SO	Crop.		Oats	Oats	Brussel Sprouts	Kale	Sugar Beet	Sugar Beet (Micro-plot Expt.)	Seeds Hay	
DAT	Field.	I Avable and	Replicated Ex- periments— Warren Field (1)		Butt Close (1)	(2)	Butt Furlong (1)	(5)	(3)	

	1				101				
ntinued)	Yield per acre.	12 cwt.	12 cwt.	42 cwt. (ashay)	Badly laid Used un- threshed	see p. 94	see p. 95	EI E	Section, Sec
931 (Con	Carting Dates.	Sept. 20-	Sept. 20-	July 17	Sept. 10	Aug. 28 (threshed)	Aug. 31 (threshed)	25 T T T T T T T T T T T T T T T T T T T	Line of the second seco
BURN, 1	Cutting Dates.	Aug. 18-22	Aug. 28	June 28	Aug. 12	Aug. 20	Aug. 24		The state of the s
ACRE, WO	Sowing Dates.	April 10	March 31	lime* 5 I.C.I. No. 7 Oct. 17 and Jan. 9	Oct. 22	Oct. 2	March 18	May 7 (resow) Aug. 18	Derive
LD PER	Manuring, cwt. per acre.	2 Pot. Salt, 2 Super., 2 I.C.I. No. 7	lime* 2 Pot. Salt, 2 Super, 2 I.C.I. No. 7 2 tons burnt	lime* 5 I.C.I. No. 7	5 I.C.I. No. 7 Oct. 22	see p. 93	see p. 96	1 S/Pot. 3 Super.	Plannings
HARVESTING, AND YIELD PER ACRE, WOBURN, 1931 (Continued)	Principal Cultivations and Dates.	Feb. 26-March 13 spread lime. March 25-31 plough. April 10 harrow and drill. May 3 Cam- bridge roll. April 28-30 sow grass	seeds. Feb. 11-14 plough in beet tops. March 25 Cambridge roll and harrow. May 2 roll. April 28-30 sow grass seeds.	Oct. 11-13, 1930 plough. Oct. 17, 1930 drill and harrow. Jan. 9 resow and harrow.	Oct. 11-15, 1930 plough. Oct. 22, 1930 drill and harrow. April 13-14 Cambridge roll.	Sept. 17, plough. Oct. 2 harrow. March 19-20 Cambridge roll.	Dec. 22-29 plough. March 16 cultivate, March 18 harrow and roll.  March 19-23 Cambridge roll.	June 2-3 hand hoe.  Oct 23 gather and burn twitch. Oct. 24, 1930 cultivate. March 12 plough. March 14-18 cultivate. April I double harrow and cultivate. Nay 7 drill and harrow.	July 20-Aug. 13 eat off with 26 sheep receiving 1½ cwt. mixed cake (cotton and linseed). Aug. 13 and 14 plough and harrow. Oct. 9-12, 1930eat off with sheep, receiving 1½ cwt. mixed cake.
	Variety.	Plumage Archer	Plumage Archer		Grey Winter	Squarehead's Master	Plumage, and Archer	Garton's Baltic	
DATES OF SOWING AND	Crop.	Barley (undersown)	Barley (undersown)		Oats	Permanent Wheat	Permanent Barley	Tares	
DATES	Field.	Road Piece	Great Hill	Lansome Piece (1)	(2) II.—Classical and Rotation	Experiments— Stackyard Field	Library Librar	Series A (a) (1)	

\* Applied before 1930 Sugar Beet, but omitted from last Report.

(penu	Yield per acre.		see p. 139	see p. 139	see p. 139	see p. 138	see p. 138
(Contin	Carting Y Dates.	Aug. 26 se (threshed)		(p	Aug. 29 se (threshed)	Aug. 28 se (threshed) June 19 se	-
1931		Aug (thr	Sept. 9 (green)	Oct. 29 31 (lifte	Aug (thr	A	Sept. 3(lifted)
BURN	Cutting Dates.	Aug. 18	Sept. 9	I so species	Aug. 21	Aug. 18 June 15	1
ACRE, WO	Sowing Dates.	May 26 Aug. 18 Oct. 18, 1930	May 27	May 7	March 18	Oct. 18 Forage Mixt., Oct. 18. Mustard June 25. Rye Sept. 19	May 1
LD PER	Manuring, cwt. per acre.	1 S/Pot. 3 Super.	see p. 138	see p. 138	see p. 138	see p. 138	see p. 138
DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, WOBURN, 1931 (Continued)	Principal Cultivations and Dates.	Cultivations same as Tares.  After green crop fed off, Oct. 13-15, 1930 plough. Oct. 18, 1930 double harrow. March 19 Cambridge roll. June 4 cut out thistles. June 22-July 10 pull poppies.	Clover sown in barley 1930. April 1 clover ploughed in after severe pheasant damage. April 8 sow 16 Ibs. Alsike. April 14 Cambridge roll. May 27 cross cultivate and roll (sow vetches). July 8 horse hor 1 con band hord.	nee. July 10 manu noc. Dec. 22, 1930 plough. May 6 cross cultivate. May 7 sow manures flat roll, July 2 hand hoe. Aug. 10 hand hoe	After sugar beet. Dec. 20, 1930 plough in tops. March 17 harrow. March 18 Cambridge roll. May 5 hand hoe. May 7 undersown with Alsike and roll	Sept. 20, 1930 plough. Oct. 15-16 1930 plough. May 9-12 hand hoe. Oct. 15-16, 1930 plough. Oct. 18, 1930 harrow. May 9-12 hand hoe. June 22 one way plough. June 25 double harrow. July 7 Cambridge	roll. Aug. 18-20 plougn in mustard. Sept. 19 harrow. April 1 plough. April 28 double harrow and ridge. June 4 harrow and ridge up.
S AND H	Variety.	Red Standard	Garton's Baltic	Kuhn	Plumage Archer	Yeoman II	Ally
OF SOWING	Crop.	Mustard Wheat	Vetches (after clover failure)	Sugar Beet	Barley	Wheat Forage	Potatoes
DATES (	Field.	Series A (b)	Rotation—				

DATES (	OF SOWING		AND HARVESTING, AND YIELD PER ACRE, WOBURN, 1931 (Continued)	D PER	ACRE, WO	BURN, 1	931 (Con	ntinued)
Field.	Crop.	Variety.	Principal Cultivations and Dates.	Manuring, cwt. per acre.	Sowing Dates.	Cutting Dates.	Carting Dates.	Yield per acre.
Series C	Barley	Plumage Archer	After swedes fed off. March 6 plough half. March 16 harrow. March 31 plough other half. April		March 16 first half. April 8 second half.	Aug. 25	Oct. 1	see b. 98
Series D	Vetches (after clover failure)	Garton's Baltic	8 harrow. May 11 flat roll.  Broad red clover sown March 27, 1930. Failed during winter, March 16-17 tractor plough. Alsike sown April 8, but came too slowly, so land was cultivated	1	May 8 Alsike May 27-28	Aug. 27-28	Sept. 29	see p. 98
Lansome	Wheat (after green manuring)	Red Standard	vetches. Oct. 7-8 plough. Oct 17 harrow in.	1.	Oct. 17	Aug. 12	Aug. 25	see p. 100
III. Grassland- Butt Furlong Warren Field	Grazing Grazing	11		2 I.C.I. No. 7 2 tons lime, 1 N/Soda, 9 M/Potash	11	-11	11	_ [ ]
Broad Mead (1) (2) (3) (4)	Grazing Grazing Grazing Grazing, then	TIII:	Feb. 14 chain harrow and apply first dressing of N/Soda. Follow with remaining 6 sections at weekly intervals.	1 N/Soda, 1st dressing 1 N/Soda, 2nd dressing	1	June 28 (plot 4)	July 23- 24	25 cwt.
Honey Pot (5) Gt. Hill Bottom (6) (7)	Grazing Grazing Grazing	1 1 1	commerced June 10, and went on at weekly intervals, omitting Honey Pot.	ĺ	2 1		1	1
Long Mead Mill Dam Close	Grazing Grazing	11	11		11	11	1-1	1115
	The state of the s					No. No. No.	SAN LENS	MINISTER OF THE PARTY OF THE PA