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Report for 1935

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Woburn Experimental Farm

Rothamsted Research

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WOBURN EXPERIMENTAL FARM REPORT FOR 1934-35

BY DR. J. A. VOELCKER, C.I.E., M.A.

The season was one of very variable nature, commencing with a severe thunderstorm in September, 1934; rainfall in October and November was rather above the average, and very heavy in December, reaching 4.5 inches in that month, there being 25 rainy days. The winter, however, was mild, and there was but little frost; there was only one fall of snow all the winter. January 1935, was dry, February wet, but March was again dry, so that spring sowing could be done well.

May was marked by cold winds, followed by a "dripping" June, 20 wet days being recorded, though the total rainfall was only 1.95 inches. In July and August hot and very dry weather followed and brought on the ripening of the corn crops so that an early harvest was obtained, and got in in good condition, it being possible to thresh the small experimental corn crops in the field. September, October, and November were all wet—the total rainfall for 1935 being 26.13 inches as against 19.56 for the previous year.

The meteorological records for 1934-5 were as follows:

METEOROLOGICAL RECORDS. 1934-5

	Rain	nfall.	girlad m	7	Cemperati	ure (Mean)	
Month.	Total Fall.	No. of Rainy Days.	Bright Sun- shine	Max.	Min.	1 ft. in Ground.	Grass Min.
1934—	Ins.	No.	Hours.	°F.	°F.	°F.	°F.
Oct	1.67	18	91.1	57.3	45.2	51.6	40.6
Nov	1.94	13	43.0	47.0	37.9	43.1	33.9
Dec 1935 —	4.56	25	21.0	49.9	42.1	45.1	37.0
Jan	0.77	10	36.1	43.8	35.4	40.7	31.0
Feb	2.75	17	49.1	47.2	36.3	41.2	33.0
Mar	0.41	8	130.4	50.5	35.9	43.1	31.5
April	2.98	20	125.9	53.0	38.7	46.6	34.0
May	2.41	9	188.2	59.1	40.5	53.7	37.8
June	1.95	20	200.0	67.3	50.8	60.7	48.2
July	0.52	5	244.9	75.0	52.0	68.8	48.4
Aug	2.09	10	202.4	74.1	51.5	67.5	47.4
Sept	3.98	17	151.7	64.2	48.6	57.1	45.9
Oct	2.84	18	107.5	55.8	42.2	49.4	38.4
Nov	3.48	20	62.0	49.4	39.1	44.6	35.5
Dec	1.95	19	32.4	41.5	32.7	37.9	29.6
Total or mean for	ga Thus	d ca only		In here			
1935	26.13	173	1530.6	56.7	42.0	50.9	38.4

CONTINUOUS GROWING OF WHEAT AND BARLEY

Stackyard Field, 1935, 59th Year (no manure since 1926.) The fallowing operations on both these plots, begun in 1934, were continued throughout 1935, a vigorous attempt being made to free the land of weeds by cultivation. In this, considerable success was obtained, so much so, indeed, that in the autumn of 1935 these plots were considered fit to put again in corn. In this connection it may be said that continual cultivation and stirring of the fallow land resulted in eliminating the twitch (mainly Holcus mollis and Agrostis stolonifera) and getting rid of a good deal of polygonum aviculare (hogweed); fallowing alone was, however, quite ineffective in reducing materially either mayweed or spurry. It was noticeable, nevertheless, that on the acid plots no mayweed would thrive, though spurry was thick.

After the two years' fallowing, wheat ("Red Standard") was again sown on October 24th, 1935, and barley will follow in spring 1936, on the land formerly occupied by that crop. In neither case has any fresh manuring been done, the last applications having

been made in 1926.

ROTATION EXPERIMENTS

THE UNEXHAUSTED MANURIAL VALUE OF CAKE AND CORN (STACK-YARD FIELD) 1935.

Series C.

Twelve tons per acre of the swede crop of 1934 were fed off by sheep, these receiving (a) on the cake-fed plot ,15 cwt. of mixed linseed and cotton cake giving 78.3 lb. of nitrogen per acre; (b) on the corn-fed plot 15 cwt. of a mixture of oats, barley and wheat, supplying 26.5 lb. of nitrogen per acre. There was, thus,

considerable difference in nitrogen between the two sets.

Barley ("Plumage Archer") was drilled early in March, and came up well. Towards the end of March Alsike clover was sown among the barley. The barley crop was cut on August 7th, stooked, carted to the farm, and threshed in January, 1936. The yields were

as follows:

	Head	Corn.	Tail Corn.	St Chaj	raw ff, et	tc.	
Plot.	Bushels.	Weight per Bushel. lb.	lb.	cwt	cwt.qr. lb.		
1. After Cake-feeding 2. After Corn-feeding	38.7 32.5	55.7 55.9	15 5	24 20	0 2	16 16	

The crop was quite a good one, tail corn being but small in amount. The cake plot, as usual, gave the higher return by 6.2 bushels per acre, yet it is remarkable that the corn plot, which received additionally only 26 lb. per acre of nitrogen in the four years' rotation, gave so good a result and one so nearly approaching the yield from the higher application (78.3 lb. acre) of nitrogen by the cake-feeding.

Series D.

The Alsike clover left after the barley crop of 1934 had been removed, had not been good and, though the parts where it was thin had been resown, the crop was poor and "clover sickness" made its appearance over a considerable part of the area. A good deal of damage was also done by pheasants and other birds. Early in May, 1935, the clover was lightly mown over in order to get rid of seeding weeds, and in the comparatively cold and wet weather of May and June the clover seemed to recover somewhat and began to grow again. It was finally cut on July 5th and made into hay, the weights being:

	T DESIGNATION	Yield of	Clover Hay	per acre
Plot.		cwt.	qrs.	lb.
After Cake-feeding After Corn-feeding		12 14	2 3	24 16

The difference in weight in favour of the corn plot was really due to the amount of plant left after the attack of "clover sickness," rather than to any difference of manuring.

GREEN MANURING EXPERIMENT

Stackyard Field, 1935 (Series A)

(a) Upper Part—Wheat after Green-crops

The first green crops—Mustard and Tares—of 1934 had been fed off by sheep which received also 1½ cwt. per acre of cotton cake, this giving 7.6 lb. of nitrogen per acre. The mustard crop supplied 20.2 lb. of nitrogen per acre, the tares crop, 44.4 lb. A second green-crop of each kind was sown in August but, owing to drought, came to little and, not being enough to feed off, was ploughed in. The total amounts of nitrogen supplied by the two several green-crops and the cake addition were: Mustard plot, 37.4 lb. per acre; Tares plot, 58.3 lb. per acre.

The land was prepared for wheat in October and this ("Red

Standard ") was drilled on November 6th, 1934.

Up to the beginning of May, 1935, the wheat grew quite well, that after tares looking rather the better. After this, however, the change that has so often before been noticed on these plots showed itself, the wheat plant turning yellow and but a poor crop was the result. Rabbits also did a great deal of damage, but by taking, for weighing, the less injured portions, the following will fairly represent the result:—

YIELD OF WHEAT PER ACRE. 1935.

· Plot.	Head	d Corn.	Tail Corn.	Straw,
Tiot.	Bushels.	Weight per Bushel.		Chaff, etc.
Tares (unlimed) Mustard (unlimed)	12.3 9.9	1b. 63.2 63.4	lb. 14.0 9.0	lb. 1066 799

The limed plots were too much damaged for the weights to be satisfactorily recorded.

It may be observed that these plots followed the usual sequence of being quite promising at first and then failing badly in May, and finally yielding only meagre crops of wheat.

(b) (Lower part). Green-crops after Wheat.

After the wheat crop of 1934 green-crops of mustard and tares were sown—the latter in April, 1935, and the former in May. In neither case was anything but a very poor crop obtained, and, these not being enough to be fed off with sheep, were ploughed into the land. It was intended to take a second crop of each, but these could not, owing to the continued drought, be put in in time for getting wheat in afterwards, and the consequence was that the wheat crop for 1936 had to be sown with only the addition of nitrogen from the small first green-crops.

Lansome Field. Green-manuring Experiment, 1935. Wheat after Green-crops.

After the green-crops of 1934 had been turned in, wheat ("Red Standard") was drilled on November 2nd—the mustard crops had supplied 40.6 lb. of nitrogen per acre, the tares 97.2 lb. Already in March the wheat had begun to turn yellow and by May this was much worse, so that—as on Stackyard Field—only small yields of wheat were obtained, as shown in the following Table:—

YIELD OF WHEAT PER ACRE. 1935.

	of Heart, per acre of correnced				Straw, Chaff,
Plots.		Bushels.	Weight per Bushel.	Corn.	etc.
-negative contact and I	anlan	e region	lb.	lb.	lb.
1. Mustard, old series		10.9	59.5	101	1560
2. Tares, old series		16.9	61.1	121	2737
3. Mustard, new series		11.2	62.2	101	1870
4. Tares, new series		11.7	62.7	8	2079
5. Control, new series		9.6	61.5	161	1696

As in Stackyard Field, the wheat crop after tares was rather the better, but the crop, considering the amount of nitrogen supplied to it in the green-crops, was miserably poor.

Lucerne. Inoculation Experiment-Lansome Field, 1935.

This experiment, on the advantage or otherwise of inoculating the seed before sowing it, had been started in the year 1932, and so was now in its fourth year. The plots had yielded two cuttings in 1932 and in 1933, but three were obtained in 1934. Now, again, in 1935, three crops were reaped. After the 1934 crop the plots were harrowed and 10 tons per acre of farmyard manure were applied, this being the first manurial treatment since the first sowing of lucerne. The lucerne, though in its fourth year, continued to thrive and gave a wonderfully good and clean crop at each time of

cutting. There were 12 plots, one half of these having been originally sown with inoculated seed and the other half with seed not so inoculated. The averages of the two sets, each composed of 6 plots, when reckoned as green lucerne or as lucerne hay were as follows:—

Malog post of				Green Produce per acre.	Lucerne Hay per acre.
Uninoculated area		E W	MI E.	tons. 25.6	tons.
Inoculated area	37 (37)				6.55
inoculated area				25.2	6.48

There was thus—as in former years—nothing to favour the inoculation of the seed, but it was remarkable, indeed, that such a yield as shown above should have been reached in the fourth year of the growing of lucerne, and that without the use of any manure, until 1934—5, when they received 10 tons of farmyard manure per acre. Up to the present, and including the 1935 crops, the total yields have been:—

		Lucerne Hay per acre.
		tons.
Uninoculated area	 	14.60
Inoculated area	 	14.24

The hay of the inoculated plots was, throughout, rather the higher in nitrogen.

Taking the total crops of the four years, the following amounts of nitrogen were obtained in the crops and removed from the land:—

	Nitrogen per acre
Uninoculated area (4 years)	1b. 791.14 826.68

Grass Experiments. Broad Mead, 1935.

These experiments on the manuring of grass land were commenced in Broad Mead in 1901. They comprised six different plots, one with lime, one with farmyard manure, and the others with different artificial manures. In 1935 the plots were grazed by sheep and were much improved by the close feeding they received.

Pot-Culture Experiments.

The remainder of the earlier work undertaken at Woburn is comprised in the investigations carried out at the Pot-culture

Station. These have direct reference to problems which have arisen out of the field experiments; among the principal are (a) green-manuring, (b) acid soils, (c) clover-sickness.

Rotation Experiments. Series B. Stackyard Field, 1935.

This was a series commenced in 1932 under the new Rothamsted plan. The rotation is a six-course one, the respective crops being, in 1935, red clover; wheat; barley; rye; sugar beet; potatoes. Of these all came well with the exception of red clover, which was unaccountably poor, for there was no "clover-sickness" here.

Miscellaneous Experiments.

In Lansome Field different strains of lucerne are being grown, also carrots (manurial experiment), Green-manuring experiment using lupins and then turning these into the land before planting kale. The growing of Soya-bean is also tried and has been fairly successful.

In Butt Close a very extended manurial experiment on sugar beet was carried out, this involving investigations as to time of planting and distance of drills apart. Other work covered the growing of different varieties of wheat, the time of application of sulphate of ammonia, etc.

In Great Hill Pyrethrum continued to be successfully grown, and in Warren Field plots laid down in different grass mixtures in 1931 were kept under observation. In 1935 they were grazed by cattle and sheep.

All the above, including Series B (rotation), form part of the new Rothamsted work and will be separately reported on from there.

WOBURN FARM

REPORT FOR 1935 by J. R. MOFFATT

The weather during the year 1934-35 was generally favourable to farm work. The winter was unusually mild, very few severe frosts occuring. Both autumn and spring sowing periods were dry and crops went in under good conditions. The grassland remained very green during the winter and though growth was slow early in spring the grassland was very productive throughout the summer. Hay was made under satisfactory conditions and yields were quite good.

Stackyard field permanent wheat and fallow plots were fallowed again this year. Barley after folded swedes in Series C went in well and looked well throughout the season. The seeds undersown in this barley and under the rotation barley for the 1936 crop were sown shortly after the corn was drilled. This early sowing was very successful as both areas had a very good plant after harvest. The 1935 clover crops in both Series D and the rotation were poor and patchy and yields were very low.

The wheat on the farm, although looking poor early in the summer, filled out well later and gave high yields. The yield of the plots on the time of application of nitrogen experiment in Butt Close was 25.3 cwt. per acre for the no nitrogen plots and 31.0 cwt. per acre for those plots receiving nitrogen. The yield of the wheat plots on the six course rotation in Stackyard field was also well above the average. Barley yields, however, were not so good as last year.

The root crops were very disappointing, all giving much smaller yields than usual. The germination of sugar beet was slow and growth seemed checked throughout the summer. The plant recovered to some extent by making late growth but yields were very much below the average. In Butt Close the average yield of the plots was 12 tons of washed beet per acre compared with the 1934 average of over 18 tons per acre. The sugar content averaged under 16per cent. compared with the 1934 figure of over 17 per cent. The yield of carrots was also much below last year's figure. The kale crop was quite satisfactory.

The potato crop looked quite well and clean throughout the year although many plants showed symptoms of virus disease. The usual Dunbar Cavalier variety was replaced this year by Majestic as there was no ready market for the former variety. Yields of both experimental and commercial crops were lower than usual and many of the tubers were rather misshapen. The tubers came up rather wet and selling commenced immediately.

Livestock

The lambing was carried out successfully, the final percentage being almost 170. Five sets of triplets were born, three of which were run as such. As at Rothamsted the early born lambs were rather small. The lambs were sold fat off the grass during summer and winter and were all sold by the new year.

The Large White Gilts purchased in 1934 have done well and have provided us with sufficient gilts to maintain a herd of this breed. A few Large Black sows are being retained but the crossbred sows are being sold fat as they age. The bacon factory grading returns are given on page 93.

Thirty Irish cattle were purchased in the autumn, the best of which will be sold fat during the winter and the remainder fattened on grass during the summer.

Show Successes

We were successful in obtaining the first prize for fat lambs at the 1934 Bedford Christmas Show, and at the Ampthill Show in July we secured a first prize for a crossbred gilt, 2nd prize for a purebred gilt, 3rd prize for fat lambs, and reserve for an in-pig sow.

DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, WOBURN, 1935 the appropriate Yield Tables.)

							COLUMN TOWN	
			Principal	Sowing	Cutting or	Carting	Manuring	Yield
Field	Crop	Variety	Cultivations and Dates	Dates	Raising Dates	Dates	per Acre	per Acre
I. Arable Butt Close	Sugar beet	Klein- wanzleben	Feb. 1-2, 1934—Tractor plough after potatoes; Mar. 8—Tractor	April 24	Oct. 24— Nov. 5.	1		10 tons
			cultivate; Mar. 13—Harrow; Mar. 20—Springtine harrow; April 15—Harrow; April 24—Drill seed 20 lbs. per acre and		(Tops fed to			
	To the second se		flat roll; May 17—Horse hoe; May 22—Start bunching; June 3—Start singling: June 13—					
			Finish singling; June 19, July 25—Horse hoe; July 24-30—				100	
Butt Furlong (1)	Kale	Marrow-stem	Feb. 28—Mar. 3—Plough in dung Mar. 13—Cambridge roll; Mar.	Marrow-stem	Cut as required dur-	ı	Farmyard manure	20 tons
		headed	21—Cross-cultivate; Cambridge	May 7 Thousand	ing winter and spring	Topp decine?	25 tons per acre	
			Kale and roll; Apl. 30 and May 7 —Horse hoe; May 7—Drill 2nd	headed June 11	for feeding to stock		(Feb. 1-28)	
			strip M-S Kale and roll; May 14 Horse hoe first plant; May 21	June 29			Sulphate of Am-	
			Hand-hoe; May 22-24				monia 1st	
			Horse-hoe; May 27—Harrow; May 30—Cambridge roll, 2nd				cwt., May	
			planting Kale; June 11—Drill 3rd strip with T-H Kale and roll;				I4. Whole	
			June 24—Horse hoe all Kale;				area—1½ cwt., Aug.	
			T-H Kale and roll; July 10 and					
			24—Horse hoe 3rd and 4th strips Kale.					
Butt Furlong (2).	Potatoes	Majestic	(As for Kale to Mar. 21). Mar.	April 2-3	Oct. 7-15	Pitted in	Farmyard	8 tons
			Apl. 2-3—Plant potatoes, 25 cwt.		and your in the		25 tons	
			per acre and cover; Apl. 27—				per acre (Feb. 1-	
			Bout up; May 17-18—Horse hoe	S SER	CALL STATES	1753108	28)	
		THE CAME AND ADDRESS OF THE PARTY OF THE PAR	May 27—narrow down, June o Bout up					

	1				
tinued)	Yield per Acre	8 tons	25 tons green forage	1	(average)
35 (Con	Manuring per Acre		Farmyard manure 10 tons per acre Jan. 22, 1935	1	Tares and Mustard fed off with 14 cwt. cake or corn per acre
BURN, 19	Carting Dates	Pitted in field	Carted green Farmyard manure 10 tons per acre Jan. 22, 1935	1	Aug. 22
CRE, WO	Cutting or Raising Dates	Oct. 16-24	July 3-4 Aug. 16 Nov. 18	1	Aug. 15
D PER A	Sowing Dates	Apl. 3 April 30 May 16	(Planted in 1932)	1	Nov. 6, 1934
HARVESTING, AND YIELD PER ACRE, WOBURN, 1935 (Continued)	Principal Cultivations and Dates	Mar. 15-20—Plough, after Kale; Mar. 21—Cambridge roll; Mar. 27—Bout up; Apl. 3—Plant 1st lot potatoes and cover, and Apl. 29—pull down ridges; Apl. 30— Plant 2nd lot potatoes and cover; May 3—Plough for 3rd planting; May 14—Harrow, roll and bout up; May 16—Plant 3rd lot potatoes and cover; May 22— Horse-hoe; May 27—Harrow down; June 5—Bout up; June 11—Harrow down; June 51— Horse-hoe all lots: June 24.25	—Bout up (Planted in 1932). Nov. 30, 1934 —Harrow three times; Dec. 8, 24, 31, 1934—Harrow 3 times on each date; Jan. 16—Harrow 6 times; Jan. 19—Harrow 8 times; Jan. 19—Harrow 8 times;	Mar. 18—Harrow Nov. 30—Dec. 12, 1930—Tractor plough; Mar. 22—Tractor-cul- tivate and harrow; Mar. 26— Tractor-cultivate; Mar. 28 and 30—Tractor-harrow and roll; May. 19 c. 1 and roll;	tivate; June 28 and July 2 Tractor-cultivate; June 28 and July 2 Tractor-cultivate and harrow; Sept. 19-27—Tractor plough Oct. 12-16, 1934—Plough; Oct. 27—Cross roll; Mar. 6-10—Harrow; Mar. 20—Flat roll; Mar. 25—Harrow; Apl. 15, Apl. 29, May 2—Harrow; May 8—Cross harrow
G AND HA	Variety	Majestic and Ally	Provence	Fallow	Red Standard
F SOWIN	Crop	Potatoes	Lucerne	Permanent Wheat Permanent Barley	Wheat
DATES OF SOWING AND	Field	Lansome Piece (1)	Lansome Piece (2)	Stackyard Field	Stackyard Field Series A

DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, WOBURN, 1935 (Continued)

				137					
Yield Der Acre				34 bush. (average)		14 cwt.	hay (average) 12 bush. (average)		
Manuring per Acre	3 cwt.	l cwt. sulphate of potash		Manured by feed-	roots with	corn	Green	with pre-	crop
Carting				Aug. 20		July 15	Aug. 13		
Cutting or Raising Dates	Ploughed in			Aug. 7		July 6	July 26		
Sowing Dates	Tares—Mar. 28 Mustard—	Apl. 29		Barley— Mar. 7 Clover—	Mar. 19	May I and			
Principal Cultivations and Dates	Dec. 12-13—Tractor plough; Mar. 8 and 22—Tractor cultivate and harrow; Mar. 26—Cam-	bridge roll; Mar. 28—Manure, sow tares, harrow and roll; Apl. 29—Sow mustard and harrow, and harrow tares; May 2 and 8—Harrow tares; July 17—Both crops a failure, so out over	July 31, Aug. 6 and 8, Tractor	Mar. 2-4—Tractor plough after feeding sheep; Mar. 5—Tractor cross-cultivate and harrow;	Mar. 7—Sow barley and harrow; Mar. 8—Cambridge roll; Mar.	19—Sow Alsike Clover and harrow; Mar. 20—Flat roll May 10—Mow over for weeds; Tuly 6—Cut Clover	Oct. 16-19—Plough in 2nd crop of Mustard and Tares; Oct. 26 Double roll: Nov. 2.—Sow wheat	and harrow; Mar. 18, Apl. 23, May 14—Harrow	
Variety	1			Plumage Archer		Alsike	Red Standard		
Crop	Tares and Mustard	of the state of th		Barley		Clover	Wheat	Bullet	
Field	Stackyard Field Series A			Stackyard Field Series C		Stackyard Field Series D	Lansome Piece (Green Man- uring)		
	Crop Variety Cultivations and Dates Carting Dates Raising Dates Dates Dates Dates Dates Dates Dates Dates	Crop Variety Cultivations and Dates Dates Raising Dates Per Acre p Tares and Mustard Mar. 8 and 22—Tractor cultivate and harrow; Mar. 26—Cam- Mustard Austard Acre Mar. 26—Cam- Mustard Austard Austard Austard Austard Mustard Austard Austa	Crop Variety Cultivations and Dates Dec. 12-13—Tractor plough; Tares—Mar. Band 22—Tractor cultivate 28—and harrow; Mar. 26—Cam—Mustard—and harrow and roll; Mar. 28—Manure, Sow tares, harrow and roll; May 2 and 8—Harrow tares; May 2 and 8—track Dates	Crop Variety Cultivations and Dates Dates Dates Dates Tares and Dec. 12-13—Tractor plough; Tares—Mar. Bounded in Burder and harrow, Mar. 26—Cambure, Sow tares, harrow and roll; Apl. 29—Sow mustard and harrow, tares; May 2 and 8—Harrow tares; July 17—Both crops a failure, so cut over; July 31, Aug. 6 and 8—Tractor plough; Tractor plough; Trace—Mar. Ploughed in Burder and harrow, and harrow tares; May 2 and 8—Harrow tares; July 17—Both crops a failure, so cut over; July 31, Aug. 6 and 8—Harrow tares; July 17—Both crops a failure, so cut over; July 31, Aug. 6 and 8—Tractor plough; Tractor plough; July 31, Aug. 6 and 8—Tractor plough;	Crop Variety Cultivations and Dates Dates Raising Dates Per Acre Dates Dates Austrand Mar. 24—Tractor plough; Tares—Mar. Ploughed in Principal Barley Plumage Archer Geeding sheep; Mar. 24—Tractor plough after Barley Plumage Archer Geeding sheep; Mar. 5—Tractor Dates Dates Dates Dates Per Acre Dates Per Acre Dates Principal Dates Dates Principal Dates Dates Per Acre Dates Practor plough; Tares—Mar. Ploughed in Savet. Sow tares, harrow and roll; Apl. 29 Barley Plumage Archer Geeding sheep; Mar. 5—Tractor Dates D	Principal Sowing Cutting or Carting Manuring Tield Dec. 12-13—Tractor plough; Tares—Mar. Bound 22—Tractor cultivate and harrow; Mar. 26—Camular and harrow and roll; Mar. 28—Manure, Sow tares, harrow and noll; Apl. 29 Plumage Archer Feeling sheep; Mar. 2-4—Tractor plough after feeling sheep; Mar. 2-4—Tractor plough Archer cross-cultivate and harrow; Mar. 3-4—Tractor plough after feeling sheep; Mar. 2-4—Tractor plough after cross-cultivate and harrow; Mar. 19 Mar. 2-6—Cambridge roll; Mar. 2-6—Cambridge roll; Mar. 3-4—Tractor plough after feeling sheep; Mar. 5—Tractor plough after decling sheep; Mar. 5—Tractor plough after feeling sheep; Mar. 5—Tractor plough after decling sheep; Mar. 6—Tractor plough af	Crop Variety Cultivations and Dates Dates Raising Dates Dates Per Acre Per Acre Mustard Mar. 8 and 22—Tractor plough; Tares—Mar. Ploughed in Barley Plumage Mar. 24—Tractor plough after Archer Crops a failure, so cut over; July 31, Aug. 6 and 8, Tractor plough after Archer Recing sheep; Mar. 25—Tractor plough after Archer Archer Cross-cultivate and harrow; Mar. 19—Sow Maike Clover and harrow; Mar. 19—Sow Maike Clover and harrow; May 10—Mow over for weeds; Sant a 104 (19—Sow Alsike Clover and harrow; May 10—Mow over for weeds; Sant a 104 (19—Sow Alsike Clover and harrow; May 10—Mow over for weeds; Sant a 104 (19—Sow Alsike Clover and harrow; May 10—Mow over for weeds; Sant a 104 (19—Sow Alsike Clover and harrow; May 10—Mow over for weeds; Sant a 104 (19—Sow Alsike Clover and harrow; Sant a 104).	Field Crop Variety Cultivations and Dates Dates Raising Dates Per Acre Per Acre Part Fred Tares and Anstard Dec. 12-13—Tractor plough; Tares—Mar. Ploughed in Dates Prophate Pridge roll; Mar. 28—Manure, 28—Cam mustard————————————————————————————————————	Field Tares and — Dec. 12-13—Tractor plough; Tares—Mar. Ploughed in — 3 cwt. and harrow; Mar. 29—Cam. Mustard — Dec. 12-13—Tractor cultivate 29—Sow mustard and harrow tares; May 2 and harrow tares; May 2 and harrow tares; May 17—Both cultivate; Sept. 9-10—Tractor plough fries C cultivate; Sept. 9-10—Tractor plough after the Sept. 9-10—Tractor plough after the Sept. 9-10—Tractor plough fries C cultivate and harrow; Mar. 19—Sow barley and harrow; Mar. 19—Sept. 6, 1934 May 14—Harrow i Mar. 18, Apl. 25, with manured and harrow; Mar. 18, Apl. 25, with ma

Grassland. Broad Mead, Paddocks I and 4, and the N.E. side of Great Hill Field were grazed and then laid in for hay, which was cut about July 18th. The remainder of Broad Mead and of Great Hill Field, as well as Roadpiece, Great Hill Bottom, Long Mead, Mill Dam Close, and Warren Field were grazed and cut over.

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