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Collection of Plans for the Woburn Ley-arable Experiment

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Woburn Ley-arable 1978a

Rothamsted Research

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WOBBURN ARABLE AND LEY ROTATION

41st year N STACKYARD D 1978 201A
Sponsors: A.E. Johnston, F.G.W. Jones, G.A. Salt

BK 78/W/RN/3

01	d14	(Ah) B	02	-
05	d14	(A) F	06	-
09	-	(LA) Lln2	10	d14
13	d14	(L) Lln2	14	-

17	-	(Ah) O	18	d15
21	d15	(SA) LLC3	22	-
25	d15	(Ah) Lln3*	26	-
29	-	(C) LC3	30	d15

33	d13	(C) Lc1	34	-
37	-	(LAh) Lln1	38	d13
41	-	(SA) Lln1	42	d13
45	-	(Ah) B	46	d13

49 Block 4 1st Test
For plot treatments

65 Block 5 2nd Test
For plot treatments

03	-	(C) Lc2	04	d14
07	-	(Ah) LLC2*	08	d14
11	d14	(AL) Lln2*	12	-
15	-	(SAh) LLC2	16	d14

19	-	(A) O	20	d15
23	-	(AC) LLC3*	24	d15
27	-	(LAh) Lln3	28	d15
31	-	(L) Lln3	32	d15

35	d15	(AL) Lln6	36	-
39	d13	(A) F	40	-
43	-	(L) Lln1	44	d13
47	-	(Ah) LLC6	48	d13

49 Winter Wheat
See Separate Plan 201B 64

65 Barley
See Separate Plan 201C 80

SYMBOLS

From 1976 major revisions have been made:-
Previous Rotations: (A), (Ah), (C), (L), (S) not defined on this plan
From 1976 AH: Barley B, Barley B, Oats O.
A: Fallow F, Fallow F, Oats O.
Lc: 3 years clover/grass ley (no N)
Ln: 3 years all grass ley (with N)
LLc & Lln 8 year leys treated as above.

* = ploughed up in less than 8 years initially during phasing
Followed by Test Crops Wheat W, Barley B.
NOTE: All Lc, Lln, LLc and Lln 2 & 3 failed in 1976 and
resown in autumn 1976.

To all crops: - dr Residues of none v.15 tons/acre (38t/ha) FYM
last applied 2 years ago.

BASAL MANURING per acre (hectare) to treatment crops:
Barley - Porthos (dressed with ethinmal), 360lb (400kg) compound
fertiliser (20:14:14) CD
Oats - Manod

All - Grass ley
1st year: 75kg (67lb) N as Nitro-chalk 25, 75kg (67lb) P₂O₅, 150kg (134lb)
K₂O as (0:14:28) in the seedbed, 75kg (67lb) N, 48kg (43lb) K₂O
as (25:0:16) after each cut except the last.

2nd + years: 75kg (67lb) P₂O₅, 150kg (134lb) K₂O as (0:14:28) in winter
75kg (67lb) N, 48kg (43lb) K₂O as (25:0:16) in spring
and after each cut except the last.

Clover/grass ley as Ln but omitting N. K per cut as Muriate of potash
1st year: 75kg (67lb) P₂O₅, 150kg (134lb) K₂O as (0:14:28) in the
seedbed, 48kg (43lb) K₂O as Muriate of potash after
each cut except the last.

2nd + years: 75kg (67lb) P₂O₅, 150kg (134lb) K₂O as (0:14:28)
in winter, 48kg (43lb) K₂O as Muriate of potash
in spring, and after each cut except the last.

Barley sown at 145lb (162kg) Date: Redrilled 7 Apr
Oats sown at 180lb (202kg) Date: 13 Mar