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RESEARCH

Collection of Plans for the Woburn Ley-arable Experiment

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WOBURN ARABLE AND LEY ROTATIONS
STATIONARY FIELD EXPERIMENT
1957-79

Treatment	Area	Established	Harvested	Yield	Quality
1. 1st Year Arable	1/20	1957	1958	10.0	1.0
2. 1st Year Ley	1/20	1957	1958	10.0	1.0
3. 2nd Year Arable	1/20	1958	1959	10.0	1.0
4. 2nd Year Ley	1/20	1958	1959	10.0	1.0
5. 3rd Year Arable	1/20	1959	1960	10.0	1.0
6. 3rd Year Ley	1/20	1959	1960	10.0	1.0
7. 4th Year Arable	1/20	1960	1961	10.0	1.0
8. 4th Year Ley	1/20	1960	1961	10.0	1.0
9. 5th Year Arable	1/20	1961	1962	10.0	1.0
10. 5th Year Ley	1/20	1961	1962	10.0	1.0
11. 6th Year Arable	1/20	1962	1963	10.0	1.0
12. 6th Year Ley	1/20	1962	1963	10.0	1.0
13. 7th Year Arable	1/20	1963	1964	10.0	1.0
14. 7th Year Ley	1/20	1963	1964	10.0	1.0
15. 8th Year Arable	1/20	1964	1965	10.0	1.0
16. 8th Year Ley	1/20	1964	1965	10.0	1.0
17. 9th Year Arable	1/20	1965	1966	10.0	1.0
18. 9th Year Ley	1/20	1965	1966	10.0	1.0
19. 10th Year Arable	1/20	1966	1967	10.0	1.0
20. 10th Year Ley	1/20	1966	1967	10.0	1.0
21. 11th Year Arable	1/20	1967	1968	10.0	1.0
22. 11th Year Ley	1/20	1967	1968	10.0	1.0
23. 12th Year Arable	1/20	1968	1969	10.0	1.0
24. 12th Year Ley	1/20	1968	1969	10.0	1.0
25. 13th Year Arable	1/20	1969	1970	10.0	1.0
26. 13th Year Ley	1/20	1969	1970	10.0	1.0
27. 14th Year Arable	1/20	1970	1971	10.0	1.0
28. 14th Year Ley	1/20	1970	1971	10.0	1.0
29. 15th Year Arable	1/20	1971	1972	10.0	1.0
30. 15th Year Ley	1/20	1971	1972	10.0	1.0
31. 16th Year Arable	1/20	1972	1973	10.0	1.0
32. 16th Year Ley	1/20	1972	1973	10.0	1.0
33. 17th Year Arable	1/20	1973	1974	10.0	1.0
34. 17th Year Ley	1/20	1973	1974	10.0	1.0
35. 18th Year Arable	1/20	1974	1975	10.0	1.0
36. 18th Year Ley	1/20	1974	1975	10.0	1.0
37. 19th Year Arable	1/20	1975	1976	10.0	1.0
38. 19th Year Ley	1/20	1975	1976	10.0	1.0
39. 20th Year Arable	1/20	1976	1977	10.0	1.0
40. 20th Year Ley	1/20	1976	1977	10.0	1.0
41. 21st Year Arable	1/20	1977	1978	10.0	1.0
42. 21st Year Ley	1/20	1977	1978	10.0	1.0
43. 22nd Year Arable	1/20	1978	1979	10.0	1.0
44. 22nd Year Ley	1/20	1978	1979	10.0	1.0
45. 23rd Year Arable	1/20	1979	1980	10.0	1.0
46. 23rd Year Ley	1/20	1979	1980	10.0	1.0
47. 24th Year Arable	1/20	1980	1981	10.0	1.0
48. 24th Year Ley	1/20	1980	1981	10.0	1.0
49. 25th Year Arable	1/20	1981	1982	10.0	1.0
50. 25th Year Ley	1/20	1981	1982	10.0	1.0
51. 26th Year Arable	1/20	1982	1983	10.0	1.0
52. 26th Year Ley	1/20	1982	1983	10.0	1.0
53. 27th Year Arable	1/20	1983	1984	10.0	1.0
54. 27th Year Ley	1/20	1983	1984	10.0	1.0
55. 28th Year Arable	1/20	1984	1985	10.0	1.0
56. 28th Year Ley	1/20	1984	1985	10.0	1.0
57. 29th Year Arable	1/20	1985	1986	10.0	1.0
58. 29th Year Ley	1/20	1985	1986	10.0	1.0
59. 30th Year Arable	1/20	1986	1987	10.0	1.0
60. 30th Year Ley	1/20	1986	1987	10.0	1.0
61. 31st Year Arable	1/20	1987	1988	10.0	1.0
62. 31st Year Ley	1/20	1987	1988	10.0	1.0
63. 32nd Year Arable	1/20	1988	1989	10.0	1.0
64. 32nd Year Ley	1/20	1988	1989	10.0	1.0
65. 33rd Year Arable	1/20	1989	1990	10.0	1.0
66. 33rd Year Ley	1/20	1989	1990	10.0	1.0
67. 34th Year Arable	1/20	1990	1991	10.0	1.0
68. 34th Year Ley	1/20	1990	1991	10.0	1.0
69. 35th Year Arable	1/20	1991	1992	10.0	1.0
70. 35th Year Ley	1/20	1991	1992	10.0	1.0
71. 36th Year Arable	1/20	1992	1993	10.0	1.0
72. 36th Year Ley	1/20	1992	1993	10.0	1.0
73. 37th Year Arable	1/20	1993	1994	10.0	1.0
74. 37th Year Ley	1/20	1993	1994	10.0	1.0
75. 38th Year Arable	1/20	1994	1995	10.0	1.0
76. 38th Year Ley	1/20	1994	1995	10.0	1.0
77. 39th Year Arable	1/20	1995	1996	10.0	1.0
78. 39th Year Ley	1/20	1995	1996	10.0	1.0
79. 40th Year Arable	1/20	1996	1997	10.0	1.0
80. 40th Year Ley	1/20	1996	1997	10.0	1.0
81. 41st Year Arable	1/20	1997	1998	10.0	1.0
82. 41st Year Ley	1/20	1997	1998	10.0	1.0
83. 42nd Year Arable	1/20	1998	1999	10.0	1.0
84. 42nd Year Ley	1/20	1998	1999	10.0	1.0
85. 43rd Year Arable	1/20	1999	2000	10.0	1.0
86. 43rd Year Ley	1/20	1999	2000	10.0	1.0
87. 44th Year Arable	1/20	2000	2001	10.0	1.0
88. 44th Year Ley	1/20	2000	2001	10.0	1.0
89. 45th Year Arable	1/20	2001	2002	10.0	1.0
90. 45th Year Ley	1/20	2001	2002	10.0	1.0
91. 46th Year Arable	1/20	2002	2003	10.0	1.0
92. 46th Year Ley	1/20	2002	2003	10.0	1.0
93. 47th Year Arable	1/20	2003	2004	10.0	1.0
94. 47th Year Ley	1/20	2003	2004	10.0	1.0
95. 48th Year Arable	1/20	2004	2005	10.0	1.0
96. 48th Year Ley	1/20	2004	2005	10.0	1.0
97. 49th Year Arable	1/20	2005	2006	10.0	1.0
98. 49th Year Ley	1/20	2005	2006	10.0	1.0
99. 50th Year Arable	1/20	2006	2007	10.0	1.0
100. 50th Year Ley	1/20	2006	2007	10.0	1.0

Woburn Ley-arable 1971a

Rothamsted Research

Rothamsted Research (1957-79) *Woburn Ley-arable 1971a* ; Collection Of Plans For The Woburn Ley-Arable Experiment, pp 16 - 16

STACKYARD 'D' 34th year 1971 201A

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ARABLE AND LEY ROTATIONS

WOBURN

T1/W/RN/3

01 d7	Ah	02 d7	S	03 d7	04 d7
05 d7	A	06 d7	Lah	07 d7	08 d7
09 d7	AhL	10 d7	LuA	11 d7	12 d7
13 d7	L	14 d7	AS	15 d7	16 d7

17 d8	PAh	18 d8	PA	19 d8	20 d8
21 d8	PAhS	22 d8	S:LA	23 d8	24 d8
25 d8	L:LuAh	26 d8	PAAL	27 d8	28 d8
29 d8	S:S	30 d8	L:L	31 d8	32 d8

Block 3 1st Test

For plot treatments

481 d9	(F) R	491 d9	(F) R	501 d9	(F) R
482 d9	(F) R	492 d9	(F) R	502 d9	(F) R
531 d9	(F) R	541 d9	(F) R	551 d9	(F) R
57 d9	L2 L	58 d9	L2 LuA	62 d9	L2 LuA

65 d5	L3 L	66 d5	L3 L	70 d5	LuAh
73 d5	(-) C	74 d5	(-) C	75 d5	(-) C
76 d5	(-) C	77 d5	(-) C	78 d5	(-) C

Crop Potatoes 48

see separate plan 2016

51 d9	(F) R	52 d9	(F) R	53 d9	(F) R
54 d9	(F) R	55 d9	(F) R	56 d9	(F) R
59 d9	S2 Lah	60 d9	S2 S	61 d9	(-) C
63 d9	(-) C	64 d9	(-) C	65 d9	(-) C

67 d5	H:Ah	68 d5	H:Ah	71 d5	(-) C
72 d5	(-) C	73 d5	(-) C	74 d5	(-) C
75 d5	H:AL	76 d5	H:AL	79 d5	S3 S

Blk

1

2

3

4

5

SYMBOLS

Rotations

3 years ARABLE A = Potatoes P, Rye R, Carrots C.

Ah = Potatoes P, Rye 1/2*, Hay H.

S = Sainfoin cut for hay (Lu: Lucerne).

L = Ley cut (No more grazing)

TEST CROPS In 4th and 5th years

1st Test Crop

Barley

Potatoes

2nd Test Crop

Barley

Barley @ 150lb (168kg)

TREATMENTS: Planted: 30 Mar. Sown: 10 Mar.

Residues of Fumigant applied to potatoes 1969 now carrots

(-) (C) None, Chloropicrin in autumn 1968

Residues of Fumigant applied to potatoes 1970 now rye

(-) (F) None, Chloropicrin in autumn 1969

BASAL MANURING per acre (hectare) for 2nd test crop & treatment

2nd test crop Barley - Julia.

0.5 cut (45kg) N, 0.5 cut (53kg) P2O5, 0.5 cut (53kg) K2O as (15:15:15)

1st treatment crop potatoes - Maris Piper

2.0 cut (252kg) N, 2.0 cut (252kg) P2O5, 3.0 cut (376kg) K2O as (15:15:20)

2nd treatment crop rye - King II

0.5 cut (38kg) N as Nitro-chalk 2:1, 0.3 cut (38kg) P2O5, 0.6 cut (76kg) K2O as (0:14:28).

3rd treatment crop carrots - Autumn King

0.6 cut (76kg) N as Nitro-chalk 2:1, 0.6 cut (76kg) P2O5 as superphosphate

1.8 cut (226kg) K2O as muriate of potash

All crops :-

FYM -, d. Residues of none v 15 tons FYM applied

to sugar beet 1962-67

↑ A

600'6"

↑

284'