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# Collection of Plans for the Highfield Ley-arable Experiment

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## Highfield Ley-arable 1949-59

### Rothamsted Research

Rothamsted Research (1949-1990) *Highfield Ley-arable 1949-59* ; Collection Of Plans For The Highfield Ley-Arable Experiment, pp 1 - 11

# HIGHFIELD

LEY AND ARABLE ROTATIONS EXPERIMENT

1949 1st Preliminary year

| Present Crop | 3   | 5    | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14   | 15  | 16   | 17  | 18  | 19  | 20   | 21  | 22  | 23   | Dell |     |     |     |      |     |     |
|--------------|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|------|-----|-----|------|------|-----|-----|-----|------|-----|-----|
| Rotation     | (G) | (Lu) | (R) | (Cg) | (A) | (L) | (L) | (R) | (L) | (Cg) | (A) | (Lu) | (G) | (L) | (A) | (Cg) | (R) | (G) | (Lu) | (Lu) | (W) | (R) | (A) | (Cg) | (L) | (G) |
| 1            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 2            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 3            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 4            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 5            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 6            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 7            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 8            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 9            | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 10           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 11           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 12           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 13           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 14           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 15           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 16           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 17           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 18           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 19           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 20           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 21           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 22           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |
| 23           | N   | N    | N   | N    | N   | N   | N   | N   | N   | N    | N   | N    | N   | N   | N   | N    | N   | N   | N    | N    | N   | N   | N   | N    | N   |     |

Test crop

Wheat

H Seeds hay

Lu1st year lucerne

Cgl1st year cut grass

Li1st year grazed ley

R Reseeded grass

G Old grass

1 cut then followed 1 or more cuts

3 or 4 cuts

grazed

with sheep

| Rotations | Treatment crops                   | Test crops                |
|-----------|-----------------------------------|---------------------------|
| (A)       | Hay, Potatoes, Barley             | Wheat, Potatoes<br>Barley |
| (Lu)      | 1st yr, 2nd yr, 3rd yr lucerne    |                           |
| (Cg)      | 1st yr, 2nd yr, 3rd yr cut grass  |                           |
| (L)       | 1st yr, 2nd yr, 3rd yr grazed ley |                           |

| Symbol | Crop                | cwt. N per acre as nitrochalk N2 | Basal dressing per acre  |
|--------|---------------------|----------------------------------|--|
| W      | Wheat               | 0.3                              | 0.2 cwt. P <sub>2</sub> O <sub>5</sub> combine drilled with seed     |
| H      | Seeds hay           | 0.3                              | 0.15 cwt. P <sub>2</sub> O <sub>5</sub> , 0.15 cwt. K <sub>2</sub> O |
| Cgl    | 1st year cut grass  | 0.15 (i)                         | 0.6 cwt. P <sub>2</sub> O <sub>5</sub> , 0.6 cwt. K <sub>2</sub> O   |
| Li     | 1st year grazed ley | 0.075 (ii)                       | 0.6 cwt. P <sub>2</sub> O <sub>5</sub> , 0.6 cwt. K <sub>2</sub> O   |
| R      | Reseeded grass      | 0.075 (ii)                       | 0.3 cwt. P <sub>2</sub> O <sub>5</sub> , 0.3 cwt. K <sub>2</sub> O   |
| G      | Old grass           | 0.075 (ii)                       | 0.3 cwt. P <sub>2</sub> O <sub>5</sub> , 0.3 cwt. K <sub>2</sub> O   |
| Lu1    | 1st year lucerne    | —                                | 0.6 cwt. P <sub>2</sub> O <sub>5</sub> , 0.6 cwt. K <sub>2</sub> O   |

(i) 1st dressing of N1 and N2 in spring. Repeated dressings of N1 and N2 at the same rates. After 1st cut " 2nd " 3rd "

(ii) 1st dressing of N1 and N2 in spring. A second dressing of N1 and N2 later in summer at the same rates.

The basal dressing is applied as a granulated compound containing 13% P<sub>2</sub>O<sub>5</sub> and 13% K<sub>2</sub>O

1/4 plot = 0.02205 acre

For harvested areas see field notebooks



# HIGHFIELD

## LEY AND ARABLE ROTATIONS EXPERIMENT

1951 3rd year

Code letter P

151 152 153 154 155

| ICg   | IG    | H     | IR    | ILu | IL  |
|-------|-------|-------|-------|-----|-----|
| 133   | 135   | 137   | 139   | 141 | 143 |
| a b   | a b   | a b   | a b   | a b | a b |
| n     | n     | n     | n     | n   | n   |
| 1 2 1 | 1 1 1 | 1 1 1 | 1 1 1 | 1 2 | n 2 |
| 134   | 136   | 138   | 140   | 142 | 144 |
| a b   | a b   | a b   | a b   | a b | a b |
| n     | n     | n     | n     | n   | n   |
| 1 2 1 | 2 2 2 | 2 2 2 | 2 2 2 | 1   | 1   |

(Cg) (G) (A) (R) (Lu) (L)

| IR    | ICg   | IL    | H     | IG    | ILu   | W     | IG    | W     | IR    | W     |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 97    | 99    | 101   | 103   | 105   | 107   | 109   | 111   | 113   | 115   | 117   |
| a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   |
| n     | n     | n     | n     | n     | n     | n     | n     | n     | n     | n     |
| 1 2 2 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 2 | 1 1   | 2 2 2 | 2 2 2 | 2 2 2 | 2 2 2 | 2 2 2 |
| 98    | 100   | 102   | 104   | 106   | 108   | 110   | 112   | 114   | 116   | 118   |
| a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   |
| n     | n     | n     | n     | n     | n     | n     | n     | n     | n     | n     |
| 2 1 1 | 1 2 1 | 1 2 1 | 1 2 1 | 1 2 2 | 2 2 2 | 2 2 2 | 2 2 2 | 2 2 2 | 2 2 2 | 2 2 2 |

(R) (Cg) (L) (A) (G) (Lu) (A) (G) (Lu) (L) (R) (Cg)

| W     | W     | IR    | W     | IG    | W     | Present crop |
|-------|-------|-------|-------|-------|-------|--------------|
| 121   | 122   | 123   | 124   | 125   | 126   | 127          |
| a b   | a b   | a b   | a b   | a b   | a b   | a b          |
| n     | n     | n     | n     | n     | n     | n            |
| 2 1 1 | 2 1 1 | 2 2 2 | 2 2 2 | 2 1 2 | 2 1 2 | 2 1 2        |
| 122   | 124   | 126   | 128   | 130   | 132   | 134          |
| a b   | a b   | a b   | a b   | a b   | a b   | a b          |
| n     | n     | n     | n     | n     | n     | n            |
| 2 1 1 | 2 1 2 | 1 1 2 | 1 1 2 | 2 1 1 | 2 2 1 | 2 2 1        |

(A) (Cg) (R) (L) (G) (Lu)

| 2Lu | 2L  | 2G  | 2Cg | P   | 2R  | P   | 2G  | 2R  | P   | 2G  | 2R  | P   | 2G  | 2R  | P   | 2G  | 2R  | P   | 2G  | 2R  | Present crop |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  | 61  | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70           |
| n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n            |
| 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 2 Cg         |

| 3L  | B   | 3R  | 3L  | 3Cg | B   | 3R  | 3L  | 3Cg | 3L  | 3Cg | 3R  | 3L  | 3Cg | 3R  | 3L  | 3Cg | 3R  | 3L  | 3Cg | 3R  | Present crop |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|------|
| 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  | 81  | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91  | 92           | 93   |
| a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b | a b          | a b  |
| n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n   | n            | n    |
| 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2          | 2 Cg |

| (Lu) | (L) | (G) | (Cg) | (A) | (R) | (Lu) | (L) | (G) | (Cg) | (A) | (R) | (Lu) | (L) | (G) | (Cg) | (A) | (R) | (Lu) | (L) | (G) | (Cg) | Retention |
|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----------|
| 94   | 95  | 96  | 97   | 98  | 99  | 100  | 101 | 102 | 103  | 104 | 105 | 106  | 107 | 108 | 109  | 110 | 111 | 112  | 113 | 114 | 115  | 116       |
| a b  | a b | a b | a b  | a b | a b | a b  | a b | a b | a b  | a b | a b | a b  | a b | a b | a b  | a b | a b | a b  | a b | a b | a b  | a b       |
| n    | n   | n   | n    | n   | n   | n    | n   | n   | n    | n   | n   | n    | n   | n   | n    | n   | n   | n    | n   | n   | n    | n         |
| 1 2  | 1 2 | 1 2 | 1 2  | 1 2 | 1 2 | 1 2  | 1 2 | 1 2 | 1 2  | 1 2 | 1 2 | 1 2  | 1 2 | 1 2 | 1 2  | 1 2 | 1 2 | 1 2  | 1 2 | 1 2 | 1 2  | 2 Cg      |

| 3G    | B     | 3R    | B     | 3R    | 3L    | 3Cg   | B     | 3Lu   | 3G    |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    |
| a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   |
| n     | n     | n     | n     | n     | n     | n     | n     | n     | n     |
| 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 |

| (G)   | (Lu)  | (R)   | (Cg)  | (A)   | (L)   | (R)   | (Lu)  | (L)   | (G)   | (Cg)  | (A)   | (Lu)  | (G)   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    |
| a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   | a b   |
| n     | n     | n     | n     | n     | n     | n     | n     | n     | n     | n     | n     | n     | n     |
| 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 | 2 2 1 |

| (L) | (A) | (Cg) | (R) | (L) | (G) | (Lu) | (L) | (G) | (L) | (G) | (L) | (G) |
|-----|-----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| 31  | 32  | 33   | 34  | 35  | 36  | 37   | 38  | 39  | 40  | 41  | 42  | 43  |
| a b | a b | a b  | a b | a b | a b | a b  | a b | a b | a b | a b | a b | a b |
| n   | n   | n    | n   | n   | n   | n    | n   | n   | n   | n   | n   | n   |
| 1 2 | 1 2 | 1 2  | 1 2 | 1 2 | 1 2 | 1 2  | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 |

(G) (Lu) (R) (Cg) (A) (L) (R) (L) (Cg) (A) (Lu) (G)

(L) (A) (Cg) (R) (L) (G) (Lu) (L) (G) (L) (G)

(L) (A) (Cg) (R) (L) (G) (Lu) (L) (G) (L) (G)

n,d on treatment crops  
 ND on test crops (W,PB)  
 (d) (D) residuals of 1950 dung treatments



LEY AND ARABLE ROTATIONS — HIGHFIELD — 1953 5th year

Block 12

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| 134 | 136 | 138 | 140 | 142 | 144 |
| 3G  | 3G  | 3Lu | B   | 3G  | B   |
| 135 | 137 | 139 | 141 | 143 |     |
| a   | b   | d   |     | N   |     |
| 134 | 136 | 138 | 140 | 142 | 144 |
| a   | b   | d   |     | N   |     |

Block 9

|    |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 97 | 99  | 101 | 103 | 105 | 107 | 109 | 111 | 113 | 115 | 117 | 119 |
| 3R | 3Cg | 3L  | B   | 3R  | B   | 3R  | B   | 3R  | B   | 3R  | B   |
| a  | b   | d   |     | N   |     | a   | b   | d   |     | N   |     |
| 98 | 100 | 102 | 104 | 106 | 108 | 110 | 112 | 114 | 116 | 118 | 120 |
| a  | b   | d   |     | N   |     | a   | b   | d   |     | N   |     |

Block 11

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| 121 | 123 | 125 | 127 | 129 | 131 |
| a   | b   | d   |     | N   |     |
| 122 | 124 | 126 | 128 | 130 | 132 |
| a   | b   | d   |     | N   |     |

Block 10

|    |    |    |    |     |     |    |    |    |    |    |    |
|----|----|----|----|-----|-----|----|----|----|----|----|----|
| 73 | 75 | 77 | 79 | 81  | 83  | 85 | 87 | 89 | 91 | 93 | 95 |
| IG | IL | IR | H  | ICg | ILu | W  | IR | W  | IG | W  | W  |
| a  | b  | d  |    | N   |     | a  | b  | d  |    | N  |    |
| 74 | 76 | 78 | 80 | 82  | 84  | 86 | 88 | 90 | 92 | 94 | 96 |
| a  | b  | d  |    | N   |     | a  | b  | d  |    | N  |    |

Block 8

|    |    |    |    |    |    |     |    |    |     |    |    |
|----|----|----|----|----|----|-----|----|----|-----|----|----|
| 25 | 27 | 29 | 31 | 33 | 35 | 37  | 39 | 41 | 43  | 45 | 47 |
| P  | P  | P  | 2R | 2G | P  | 2Lu | 2R | P  | 2Cg | 2L | 2G |
| a  | b  | d  |    | N  |    | a   | b  | d  |     | N  |    |
| 26 | 28 | 30 | 32 | 34 | 36 | 38  | 40 | 42 | 44  | 46 | 48 |
| a  | b  | d  |    | N  |    | a   | b  | d  |     | N  |    |

Block 7

|    |    |    |    |    |    |     |     |    |    |    |    |
|----|----|----|----|----|----|-----|-----|----|----|----|----|
| 51 | 53 | 55 | 57 | 59 | 61 | 63  | 65  | 67 | 69 | 71 |    |
| W  | W  | IG | W  | W  | IR | ICg | ILu | IL | H  | IG | IR |
| a  | b  | d  |    | N  |    | a   | b   | d  |    | N  |    |
| 52 | 54 | 56 | 58 | 60 | 62 | 64  | 66  | 68 | 70 | 72 |    |
| a  | b  | d  |    | N  |    | a   | b   | d  |    | N  |    |

Block 6

|    |     |    |     |    |    |    |    |    |    |    |    |
|----|-----|----|-----|----|----|----|----|----|----|----|----|
| 1  | 3   | 5  | 7   | 9  | 11 | 13 | 15 | 17 | 19 | 21 | 23 |
| 2G | 2Lu | 2R | 2Cg | P  | 2L | 2R | P  | P  | P  | 2G | 2G |
| a  | b   | d  |     | N  |    | a  | b  | d  |    | N  |    |
| 2  | 4   | 6  | 8   | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| a  | b   | d  |     | N  |    | a  | b  | d  |    | N  |    |

Block 5

|    |    |    |    |    |    |     |     |    |    |    |    |
|----|----|----|----|----|----|-----|-----|----|----|----|----|
| 49 | 51 | 53 | 55 | 57 | 59 | 61  | 63  | 65 | 67 | 69 | 71 |
| W  | W  | IG | W  | W  | IR | ICg | ILu | IL | H  | IG | IR |
| a  | b  | d  |    | N  |    | a   | b   | d  |    | N  |    |
| 50 | 52 | 54 | 56 | 58 | 60 | 62  | 64  | 66 | 68 | 70 | 72 |
| a  | b  | d  |    | N  |    | a   | b   | d  |    | N  |    |

Block 4

|   |   |    |   |    |   |    |   |   |  |   |  |
|---|---|----|---|----|---|----|---|---|--|---|--|
| L | A | Cg | L | Lu | L | Cg |   |   |  |   |  |
| a | b | d  |   | N  |   | a  | b | d |  | N |  |

Area measured  
1/4 plot = 1/45 acre  
(approx.)

Rotation

All crops (except Lucerne) have nitrogen at single and double rates.  
 Cg = 2 cwt. N/c in spring, 2 cwt. N/c after each cut.  
 L = rate of N/c later in season.  
 N = rate of nitrogen  
 W = Wheat (W) 4 cwt. N/c, Barley (B) 2.7 cwt. N/c.  
 H = Hay (H) 4 cwt. N/c, Potatoes (P) 5 cwt. Sulphate of ammonia at 12 tons per acre to potato crops only.  
 G = High nitrogen given in previous 3 year crop sequence.  
 D = Dung to previous potato crop.

6 Year cropping cycles:-  
 Treatment crops  
 Lu = 3 years Lucerne  
 L = 3 years Grazed Ley  
 Cg = 3 years Cut Grass  
 A = Hay, Potatoes, Barley  
 G = Permanent old grass, 2 years grazed, 3rd year hay.  
 R = Reseeded Permanent Grass grazed, 3rd year hay.

Test Crops  
 Wheat, Potatoes, Barley.

Basal P.K. All rotations and permanent grass:- 13 c.p.a. Super. 4 c.p.a. Mur/potash spread over 6 years.  
 Calcium carbonate applied once in 6 years before test crop barley.

Rothamsted LEY-ARABLE Rotations HIGHFIELD 6th year 1954



|     |     |   |    |   |   |     |
|-----|-----|---|----|---|---|-----|
| 121 | a b | N | N  | N | N | 132 |
|     |     | A | Cg | R | L | Cg  |
|     |     | N | N  | N | N | N   |

|     |     |   |   |    |   |      |
|-----|-----|---|---|----|---|------|
| 109 | a b | N | N | N  | N | 120  |
|     |     | N | G | Lu | L | R Cg |
|     |     | N | N | N  | N | N    |

|    |     |   |    |   |   |     |
|----|-----|---|----|---|---|-----|
| 97 | a b | x | x  | x | x | 108 |
|    |     | R | Cg | L | A | N   |
|    |     | N | N  | N | N | N   |

|     |     |    |   |   |    |     |
|-----|-----|----|---|---|----|-----|
| 133 | a b | x  | N | N | x  | 144 |
|     |     | Cg | A | R | Lu | L   |
|     |     | N  | N | N | N  | N   |

1st. Treatment

1st. Treatment

WHEAT

WHEAT

|    |     |   |   |   |   |      |
|----|-----|---|---|---|---|------|
| 85 | a b | N | N | N | N | 96   |
|    |     | N | R | A | G | L Cg |
|    |     | N | N | N | N | N    |

|    |     |   |   |   |   |       |
|----|-----|---|---|---|---|-------|
| 73 | a b | N | N | N | N | 84    |
|    |     | G | L | R | A | Cg Lu |
|    |     | N | N | N | N | N     |

|    |     |   |   |   |   |    |
|----|-----|---|---|---|---|----|
| 61 | a b | N | N | N | N | 72 |
|    |     | N | R | A | G | R  |
|    |     | N | N | N | N | N  |

|    |     |   |   |   |   |      |
|----|-----|---|---|---|---|------|
| 49 | a b | N | N | N | N | 60   |
|    |     | N | R | A | G | L Cg |
|    |     | N | N | N | N | N    |

Area manured  
1/4 plot - 1/4 acre  
Code letter P

POTATOES

2nd. Treatment

2nd. Treatment

POTATOES

|    |     |   |   |   |    |      |
|----|-----|---|---|---|----|------|
| 37 | a b | N | N | N | N  | 48   |
|    |     | N | R | A | Cg | L Cg |
|    |     | N | N | N | N  | N    |

|    |     |   |   |   |    |     |
|----|-----|---|---|---|----|-----|
| 25 | a b | N | N | N | N  | 36  |
|    |     | L | A | R | Cg | R N |
|    |     | N | N | N | N  | N   |

|    |     |   |   |   |    |    |
|----|-----|---|---|---|----|----|
| 13 | a b | N | N | N | N  | 24 |
|    |     | N | R | A | Lu | Cg |
|    |     | N | N | N | N  | N  |

|   |     |   |    |   |    |     |
|---|-----|---|----|---|----|-----|
| 1 | a b | N | N  | N | N  | 12  |
|   |     | G | Lu | R | Cg | A L |
|   |     | N | N  | N | N  | N   |

3rd. Treatment 21 AUG 1953

BARLEY

BARLEY

3rd. Treatment

Treatments overleaf

JUN 1955

SEVENTH YEAR 1955

LEY-ARABLE ROTATIONS

HIGHFIELD

|     |    |    |   |    |    |    |
|-----|----|----|---|----|----|----|
| 133 | ax | bx | D | PK | PK | PK |
| 135 | G  | Cg | A | R  | L  | L  |
| 137 | ax | bx | N | D  | D  | PK |
| 139 | ax | bx | N | D  | D  | PK |
| 141 | ax | bx | N | D  | D  | PK |
| 143 | ax | bx | N | D  | D  | PK |

|     |    |    |   |   |   |    |
|-----|----|----|---|---|---|----|
| 97  | R  | Cg | A | R | L | L  |
| 99  | ax | bx | N | D | D | PK |
| 101 | ax | bx | N | D | D | PK |
| 103 | ax | bx | N | D | D | PK |
| 105 | N  | G  | A | R | L | L  |
| 107 | ax | bx | N | D | D | PK |

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| 111 | G  | L  | L | L | L |
| 113 | ax | bx | N | D | D |
| 115 | ax | bx | N | D | D |
| 117 | ax | bx | N | D | D |
| 119 | ax | bx | N | D | D |

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| 121 | ax | bx | N | D | D |
| 123 | ax | bx | N | D | D |
| 125 | ax | bx | N | D | D |
| 127 | ax | bx | N | D | D |
| 129 | ax | bx | N | D | D |

|    |    |    |   |   |   |    |    |
|----|----|----|---|---|---|----|----|
| 49 | Lu | L  | G | A | R | L  | L  |
| 51 | ax | bx | N | D | D | PK | PK |
| 53 | ax | bx | N | D | D | PK | PK |
| 55 | ax | bx | N | D | D | PK | PK |
| 57 | ax | bx | N | D | D | PK | PK |
| 59 | ax | bx | N | D | D | PK | PK |
| 61 | ax | bx | N | D | D | PK | PK |
| 63 | ax | bx | N | D | D | PK | PK |
| 65 | ax | bx | N | D | D | PK | PK |
| 67 | ax | bx | N | D | D | PK | PK |
| 69 | ax | bx | N | D | D | PK | PK |
| 71 | ax | bx | N | D | D | PK | PK |

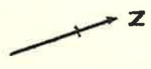
|    |    |    |    |   |    |    |    |
|----|----|----|----|---|----|----|----|
| 73 | Gh | L  | Rh | A | Cg | Lu | Lu |
| 75 | ax | bx | N  | D | D  | PK | PK |
| 77 | ax | bx | N  | D | D  | PK | PK |
| 79 | ax | bx | N  | D | D  | PK | PK |
| 81 | ax | bx | N  | D | D  | PK | PK |
| 83 | ax | bx | N  | D | D  | PK | PK |
| 85 | ax | bx | N  | D | D  | PK | PK |
| 87 | ax | bx | N  | D | D  | PK | PK |

|    |    |    |   |   |   |    |    |
|----|----|----|---|---|---|----|----|
| 89 | ax | bx | N | D | D | PK | PK |
| 91 | ax | bx | N | D | D | PK | PK |
| 93 | ax | bx | N | D | D | PK | PK |
| 95 | ax | bx | N | D | D | PK | PK |

|    |    |    |   |    |   |    |    |    |
|----|----|----|---|----|---|----|----|----|
| 1  | G  | Lu | R | Cg | A | R  | L  | L  |
| 2  | ax | bx | N | D  | D | PK | PK | PK |
| 3  | ax | bx | N | D  | D | PK | PK | PK |
| 4  | ax | bx | N | D  | D | PK | PK | PK |
| 5  | ax | bx | N | D  | D | PK | PK | PK |
| 6  | ax | bx | N | D  | D | PK | PK | PK |
| 7  | ax | bx | N | D  | D | PK | PK | PK |
| 8  | ax | bx | N | D  | D | PK | PK | PK |
| 9  | ax | bx | N | D  | D | PK | PK | PK |
| 10 | ax | bx | N | D  | D | PK | PK | PK |
| 11 | ax | bx | N | D  | D | PK | PK | PK |
| 12 | ax | bx | N | D  | D | PK | PK | PK |
| 13 | ax | bx | N | D  | D | PK | PK | PK |
| 14 | ax | bx | N | D  | D | PK | PK | PK |
| 15 | ax | bx | N | D  | D | PK | PK | PK |
| 16 | ax | bx | N | D  | D | PK | PK | PK |
| 17 | ax | bx | N | D  | D | PK | PK | PK |
| 18 | ax | bx | N | D  | D | PK | PK | PK |
| 19 | ax | bx | N | D  | D | PK | PK | PK |
| 20 | ax | bx | N | D  | D | PK | PK | PK |
| 21 | ax | bx | N | D  | D | PK | PK | PK |
| 22 | ax | bx | N | D  | D | PK | PK | PK |
| 23 | ax | bx | N | D  | D | PK | PK | PK |

|    |    |    |   |    |    |    |    |
|----|----|----|---|----|----|----|----|
| 25 | L  | A  | R | Cg | Lu | Lu | Lu |
| 26 | ax | bx | N | D  | D  | PK | PK |
| 27 | ax | bx | N | D  | D  | PK | PK |
| 29 | ax | bx | N | D  | D  | PK | PK |
| 31 | ax | bx | N | D  | D  | PK | PK |
| 33 | ax | bx | N | D  | D  | PK | PK |
| 35 | ax | bx | N | D  | D  | PK | PK |
| 37 | ax | bx | N | D  | D  | PK | PK |
| 39 | ax | bx | N | D  | D  | PK | PK |
| 40 | ax | bx | N | D  | D  | PK | PK |
| 41 | ax | bx | N | D  | D  | PK | PK |
| 42 | ax | bx | N | D  | D  | PK | PK |
| 43 | ax | bx | N | D  | D  | PK | PK |
| 44 | ax | bx | N | D  | D  | PK | PK |
| 45 | ax | bx | N | D  | D  | PK | PK |
| 46 | ax | bx | N | D  | D  | PK | PK |
| 47 | ax | bx | N | D  | D  | PK | PK |

|    |    |    |   |   |   |    |    |
|----|----|----|---|---|---|----|----|
| 49 | ax | bx | N | D | D | PK | PK |
| 51 | ax | bx | N | D | D | PK | PK |
| 53 | ax | bx | N | D | D | PK | PK |
| 55 | ax | bx | N | D | D | PK | PK |
| 57 | ax | bx | N | D | D | PK | PK |
| 59 | ax | bx | N | D | D | PK | PK |
| 61 | ax | bx | N | D | D | PK | PK |
| 63 | ax | bx | N | D | D | PK | PK |
| 65 | ax | bx | N | D | D | PK | PK |
| 67 | ax | bx | N | D | D | PK | PK |
| 69 | ax | bx | N | D | D | PK | PK |
| 71 | ax | bx | N | D | D | PK | PK |

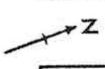




OATS  
DAYS

1956

3 HIGHFIELD 4 XLEY-ARABLE/ROTATIONS



|      |     |      |     |      |      |     |      |      |     |      |     |     |      |      |      |     |     |     |      |
|------|-----|------|-----|------|------|-----|------|------|-----|------|-----|-----|------|------|------|-----|-----|-----|------|
| 133b | 135 | 137b | 139 | 141b | 143b | 105 | 107b | 109b | 111 | 113b | 115 | 117 | 119b | 121b | 123b | 125 | 127 | 129 | 131b |
| Cg   | G   | A    | R   | Lu   | L    | N   | N    | N    | N   | G    | Lu  | R   | Cg   | A    | Cg   | R   | L   | G   | Lu   |
| 134  | 136 | 138  | 140 | 142  | 144  | 106 | 108  | 110  | 112 | 114  | 116 | 118 | 120  | 122  | 124  | 126 | 128 | 130 | 132  |
| N    | N   | N    | N   | N    | N    | N   | N    | N    | N   | N    | N   | N   | N    | N    | N    | N   | N   | N   | N    |

|     |    |    |     |     |    |     |     |     |     |    |    |    |     |    |     |     |     |     |    |     |    |    |     |    |
|-----|----|----|-----|-----|----|-----|-----|-----|-----|----|----|----|-----|----|-----|-----|-----|-----|----|-----|----|----|-----|----|
| 49b | 51 | 53 | 55b | 57b | 59 | 61b | 63b | 65b | 67b | 69 | 71 | 73 | 75b | 77 | 79b | 81b | 83b | 85b | 87 | 89b | 91 | 93 | 95b |    |
| Lu  | L  | Gh | Cg  | H   | Rh | Cg  | Lu  | L   | A   | G  | R  | G  | L   | R  | A   | Cg  | Lu  | Lu  | Lu | Rh  | H  | Gh | L   | Cg |
| 50  | 52 | 54 | 56  | 58  | 60 | 62  | 64  | 66  | 68  | 70 | 72 | 74 | 76  | 78 | 80  | 82  | 84  | 86  | 88 | 90  | 92 | 94 | 96  |    |
| N   | N  | N  | N   | N   | N  | N   | N   | N   | N   | N  | N  | N  | N   | N  | N   | N   | N   | N   | N  | N   | N  | N  | N   |    |

|    |   |    |    |    |    |    |     |     |     |    |    |     |     |    |    |     |    |    |    |    |    |    |   |
|----|---|----|----|----|----|----|-----|-----|-----|----|----|-----|-----|----|----|-----|----|----|----|----|----|----|---|
| 3  | 5 | 7  | 9  | 11 | 13 | 15 | 17b | 19b | 21b | 23 | 25 | 27b | 29b | 31 | 33 | 35b | 37 | 39 | 41 | 43 | 45 | 47 |   |
| Lu | R | Cg | A  | L  | R  | L  | L   | N   | N   | C  | N  | N   | N   | N  | N  | C   | Lu | Lu | R  | A  | Cg | L  | G |
| 4  | 6 | 8  | 10 | 12 | 14 | 16 | 18  | 20  | 22  | 24 | 26 | 28  | 30  | 32 | 34 | 36  | 38 | 40 | 42 | 44 | 46 | 48 |   |
| N  | N | N  | N  | N  | N  | N  | N   | N   | N   | N  | N  | N   | N   | N  | N  | N   | N  | N  | N  | N  | N  | N  |   |

measurements to Potatoes only  
123  
61ks  
58 1/2  
61ks  
58 1/2

Code Letter P

POTATOES

POTATOES

POTATOES



