ROTHAMSTED RESEARCH

# Yields of the Field Experiments 1975

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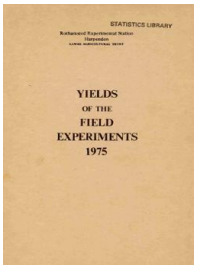


## 75/ W/RN/3 - Ley/ARABLE - Leys, Barley, Potatoes, Wheat

### Rothamsted Research

Rothamsted Research (1976) *75/ W/RN/3 - Ley/ARABLE - Leys, Barley, Potatoes, Wheat ;* Yields Of The Field Experiments 1975, pp 69 - 81 **- DOI: https://doi.org/10.23637/ERADOC-1-141**

75/W/RN/3

LEY/ARABLE

Object: To compare the effects on soil fertility of rotations with or without three-year leys. The effects of the cropping systems on soil-borne pathogens are also studied - Woburn Stackyard D.

Sponsors: D.A. Boyd, J.M. First, A.E. Johnston, F.G.W. Jones.

The 38th year, leys, barley, potatoes, wheat.

For previous years see 'Details' 1967, 68/B/2(t), 69/W/RN/3(t), 70/W/RN/3(t), 71/W/RN/3(t), 72/W/RN/3(t) and 73-74/W/RN/3.

Design: 5 series of 8 plots, split for treatments other than rotations.

Whole plot dimensions: 8.53 x 40.7.

Treatments: All phases of four five-course rotations are present:

| | | ROTATION |
|---|---|---|
| Grass/clover ley: | L, L, L, P, W | LEY |
| All legume ley: | SA, SA, SA, P, W until 1971 then CL, CL, CL, P, W | SAINFOIN CLOVER |
| Arable with roots: | P, R, C, P, W until 1971 then P, B, B, P, W | ARABLE |
| Arable with hay: | P, R, H, P, W until 1971 then P, B, H, P, W | ARABLE H |

P = potatoes, R = rye, C = carrots, W = wheat, B = barley, H = hay,
L = grass/clover ley, SA = sainfoin ley, CL = red clover ley

Additional treatments to first test crop, potatoes:-

1/2 plots: 1. Farmyard manure residues, last applied 1965:- FYMRES65

| | |
|---|---|
| None | NONE |
| 38 tonnes on each occasion | FYM |

1/4 plots: 2. Fumigant applied in 1975:- FUM75

| | |
|---|---|
| None | NONE |
| Dichloropropene, 220 kg, plus aldicarb, 11.2 kg | DICHL/AL |



*https://doi.org/10.23637/ERADOC-1-141* 

Additional treatments to second test crop, winter wheat:-

| | | |
|---|---|---|
| 1/2 plots | 1. Farmyard manure residues, last applied 1964:- | FYMRES64 |
| | None | NONE |
| | 38 tonnes on each occasion | FYM |
| 1/4 plots | 2. Fumigant residues, applied 1974:- | FUMRES74 |
| | None | NONE |
| | Dichloropropene, 220 kg, plus aldicarb, 6.7 kg | DICHL/AL |
| 1/8 plots | 3. Nitrogen fertilisers (kg N) in 1975:- | N75 |
| | None | 0 |
| | 63 | 63 |
| | 126 | 126 |
| | 189 | 189 |

Additional treatments to first treatment crop, potatoes:-

| | | |
|---|---|---|
| 1/2 plots | 1. Farmyard manure residues, last applied 1963:- | FYMRES63 |
| | None | NONE |
| | 38 tonnes on each occasion | FYM |
| 1/4 plots (A,AH only) | All combinations of:- | |
| | 2. Fumigant residues, applied 1973:- | FUMRES73 |
| | None | NONE |
| | Chloropicrin, 448 kg, plus aldicarb, 6.7 kg | CHLOR/AL |
| | 3. Fumigant applied in 1975 (cumulative to chloropicrin 1970):- | FUM75(70) |
| | None | NONE |
| | Dichloropropene, 220 kg, plus aldicarb, 11.2 kg | DICHL/AL |
| 1/4 plots (L,S only) | All combinations of:- | |
| | 2. Fumigant residues, applied 1973:- | FUMRES73 |
| | None | NONE |
| | Chloropicrin, 448 kg, plus aldicarb, 6.7 kg | CHLOR/AL |



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3. Fumigant applied in 1975:- FUM75

None NONE
Dichloropropene, 220 kg, plus aldicarb, 11.2 kg DICHL/AL

Additional treatments to second treatment crop, barley:-

1/2 plots 1. Farmyard manure residues, last applied 1967 FYMRES67

None NONE
38 tonnes on each occasion FYM

1/8 plots (A,AH only) 2. Fumigant residues, applied 1972:- FUMRES72

None NONE
Chloropicrin, 448 kg, plus aldicarb, 11.2 kg CHLOR/AL

1/4 plots 3. Fumigant residues, applied 1974:- FUMRES74

None NONE
Dichloropropene, 224 kg, plus aldicarb, 6.7 kg DICHL/AL

Additional treatments to third treatment crop, barley:-

1/2 plots 1. Farmyard manure residues, last applied 1966:- FYMRES66

None NONE
38 tonnes on each occasion FYM

1/8 plots 2. Fumigant residues, applied 1971:- FUMRES71

None NONE
Chloropicrin, 448 kg, plus aldicarb, 11.2 kg CHLOR/AL

1/4 plots (except S,L) 3. Fumigant residues, applied 1973:- FUMRES73

None NONE
Chloropicrin, 448 kg, plus aldicarb, 6.7 kg CHLOR/AL

Corrective K dressings (in kg $K_2O$) as muriate of potash applied to first test crop, potatoes:-



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75/W/RN/3

| Continuous rotations | No FYM half plots | FYM half plots |
|---|---|---|
| Ley | 176 | 50 |
| Clover | 201 | 264 |
| Arable with hay | 63 | 0 |
| Arable | 75 | 138 |
| Alternating rotations (last two rotations in order) | | |
| Ley/arable | 63 | 163 |
| Sainfoin/arable with hay | 151 | 138 |
| Arable with hay/clover | 213 | 238 |
| Arable/ley | 151 | 188 |

NOTE: For a fuller record of previous treatments see 'Details' 1967 etc.

Standard applications:-

Winter wheat: Manures: Magnesian limestone at 5 tonnes. (0:20:20) at 290 kg, combine drilled. Weedkiller: Ioxynil at 0.63 kg plus mecoprop at 1.9 kg in 280 l.

Barley: Manures: 2nd and 3rd treatment crops: (15:15:15) at 410 kg, combine drilled. Weedkillers: 3rd treatment crop only: Ioxynil at 0.52 kg plus mecoprop at 1.6 kg in 280 l.

Potatoes: Manures: Test and treatment crops: (13:13:20) at 1940 kg. Weedkillers: Linuron at 1.2 kg plus paraquat at 0.28 kg ion in 280 l. Treatment crop only: Paraquat at 0.56 kg ion in 280 l. Insecticide: Demeton-s-methyl at 0.25 kg in 280 l. Fungicide: Mancozeb at 1.3 kg 390 l.

Hay: Manures: N at 130 kg, as 'Nitro-Chalk', plus (0:14:28) at 540 kg in spring. ( 25:0:16) at 270 kg after the first cut.

Ley, 1st year: Manures: N at 50 kg as 'Nitro-Chalk', $P_2O_5$ at 190 kg as superphosphate, $K_2O$ at 130 kg as muriate of potash in the seedbed. Weedkiller: Paraquat at 0.56 kg ion in 280 l.

Leys, 2nd and 3rd years: Manures: (25:0:16) at 360 kg for each cut.

Clover, 1st year: Manures: N at 60 kg as 'Nitro-Chalk', $P_2O_5$ at 190 kg as superphosphate, $K_2O$ at 130 kg as muriate of potash. Weedkiller: Paraquat at 0.56 kg ion in 280 l.

Clover, 2nd and 3rd years: Manures: N at 60 kg as 'Nitro-Chalk', $K_2O$ at 190 kg as muriate of potash. Weedkiller 3rd year only: Paraquat at 0.84 kg ion in 280 l.

Varieties: Winter wheat: Cappelle, dressed with dieldrin, sown at 200 kg
Barley: Julia, dressed with ethirimol, sown at 160 kg
Potatoes: First test and treatment crops: Maris Piper
Red Clover: 1st year: S123, sown at 45 kg
Red Clover: 3rd year resown: S123, sown at 40 kg
Ley: 1st year: Perennial ryegrass S23, Cocksfoot S143, late flowering red clover, Alsike clover, sown at 30 kg.



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Cultivations, etc.:- Treatment crops:

Ley, 1st year: Paraquat applied: 11 Sept, 1974. Subsoiled: Tines 140 cm apart and 56 cm deep: 17 Sept. Ploughed: 31 Oct. Spring-tine cultivated three times: 6 Nov, 24 Apr, 1975, 28 Apr. Rolled, N, P and K applied: 30 Apr. Seeds sown, harrowed in: 2 May. Rolled: 4 May. Topped four times: 8 June, 1 Aug, 2 Sept, 31 Oct.

Ley, 2nd and 3rd years: NK applied: 6 Mar, 1975, 27 June. Cut once: 23 June. 2nd year ley topped: 9 Sept, 31 Oct and 3rd year ley: 2 Sept.

Clover, 1st year: Paraquat applied: 11 Sept, 1974. Subsoiled: Tines 140 cm apart and 56 cm deep: 17 Sept. Ploughed: 31 Oct. Spring-tine cultivated three times: 6 Nov, 24 Apr, 1975, 28 Apr. Rolled, N, P and K applied: 30 Apr. Seed sown, harrowed in: 2 May. Rolled: 4 May. Topped four times: 8 June, 1 Aug, 2 Sept, 31 Oct.

Clover, 2nd year: N and K applied: 6 Mar, 1975. Cut twice: 23 June, 28 Aug.

Clover, 3rd year: N and K applied: 6 Mar, 1975. Cut and carted off weeds, paraquat applied: 22 May. Rotary cultivated: 27 May. Power harrowed, red clover resown, harrowed in, rolled: 6 June. Weeds pulled by hand: 23 June. Topped: 5 Aug, 2 Sept.

Seeds Hay: Seeds undersown in barley: 30 Apr, 1974. N and PK applied: 6 Mar, 1975. Cut: 23 June. NK applied: 27 June.

Potatoes, 1st treatment crop: Paraquat applied: 11 Sept, 1974. Subsoiled: Tines 140 cm apart and 56 cm deep: 17 Sept. Ploughed: 31 Oct. Spring-tine cultivated: 6 Nov. Deep-tine cultivated: 6 Jan, 1975. Dichloropropene applied, spring-tine cultivated: 8 Jan. NPK applied: 21 Apr. Deep-tine cultivated: 25 Apr. Spring-tine cultivated: 28 Apr. Aldicarb applied, all plots rotary cultivated, potatoes planted: 5 May. Ridges rolled: 10 May. Linuron and paraquat applied: 22 May. Grubbed: 23 June. Rotary ridged: 24 June. Insecticide applied: 25 June. Fungicide applied: 15 July. Haulm mechanically destroyed: 26 Sept. Sprayed with undiluted BOV at 160 l. Lifted: 7 Oct.

Barley, 2nd treatment crop: Deep-tine cultivated twice: 31 Dec, 1974, 6 Jan, 1975. Spring-tine cultivated three times, the second time with crumbler: 26 Feb, 21 Mar, 26 Mar. Seed sown: 26 Mar. Spring-tine cultivated with crumbler, seed resown, seeds hay undersown (Arable H plots), covered in, rolled: 1 May. Thistles hoed by hand: 17 July. Combine harvested: 23 July.

Barley, 3rd treatment crop: Ploughed: 17 Dec, 1974. Spring-tine cultivated three times, the second time with crumbler: 26 Feb, 21 Mar, 26 Mar. Seed sown: 26 Mar. Spring-tine cultivated with crumbler, seed resown, rolled: 1 May. Weedkiller applied: 5 June. Combine harvested: 19 Aug.

Test Crops:

Potatoes, 1st test crop: First half corrective K applied: 9 Oct, 1974. Rotary cultivated: 30 Oct. Ploughed: 31 Oct. Spring-tine cultivated: 6 Nov. Deep-tine cultivated: 6 Jan, 1975. Dichloropropene applied, spring-tine cultivated: 8 Jan. Second half corrective K applied: 21 Feb. NPK applied: 22 Apr. Deep-tine cultivated: 25 Apr. Spring-tine cultivated: 28 Apr. Aldicarb applied, all plots rotary cultivated, potatoes planted: 5 May. Ridges rolled: 10 May. Weedkiller applied: 22 May. Grubbed: 23 June. Rotary ridged: 24 June. Insecticide applied:



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25 June. Fungicide applied: 15 July. Haulm mechanically destroyed: 26 Sept. Sprayed with undiluted BOV at 160 l: 2 Oct. Lifted: 6 Oct.

Wheat, 2nd test crop: Magnesian limestone applied, deep-tine cultivated twice: 7 Nov, 1974. Spring-tine cultivated, seed sown: 8 Nov. N applied: 26 Mar, 1975. Harrowed: 22 Apr. Rolled: 24 Apr. Weedkiller applied: 8 May. Combine harvested: 12 Aug.



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75/W/RN/3

WHEAT 2ND TEST CROP

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | LEY | CLOVER | ARABLE | ARABLEH | MEAN |
|---|---|---|---|---|---|
| FYMRES64 | | | | | |
| NONE | 3.63 | 3.51 | 2.92 | 3.14 | 3.30 |
| FYM | 3.47 | 3.62 | 2.78 | 3.07 | 3.24 |
| FUMRES74 | | | | | |
| NONE | 3.45 | 3.35 | 2.47 | 2.84 | 3.03 |
| DICHL/AL | 3.66 | 3.78 | 3.23 | 3.37 | 3.51 |
| N75 | | | | | |
| 0 | 2.54 | 2.34 | 1.31 | 1.69 | 1.97 |
| 63 | 4.15 | 3.87 | 3.00 | 3.48 | 3.62 |
| 126 | 4.10 | 4.11 | 4.04 | 3.83 | 4.02 |
| 189 | 3.43 | 3.95 | 3.06 | 3.43 | 3.47 |
| MEAN | 3.55 | 3.57 | 2.85 | 3.11 | 3.27 |

GRAIN MEAN DM% 88.3

STRAW TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | LEY | CLOVER | ARABLE | ARABLEH | MEAN |
|---|---|---|---|---|---|
| FYMRES64 | | | | | |
| NONE | 4.51 | 4.56 | 3.21 | 3.45 | 3.93 |
| FYM | 4.69 | 4.82 | 3.02 | 3.65 | 4.05 |
| FUMRES74 | | | | | |
| NONE | 4.39 | 4.42 | 2.45 | 3.32 | 3.64 |
| DICHL/AL | 4.81 | 4.96 | 3.78 | 3.78 | 4.33 |
| N75 | | | | | |
| 0 | 1.80 | 1.83 | 0.91 | 1.32 | 1.46 |
| 63 | 4.44 | 4.40 | 3.15 | 3.61 | 3.90 |
| 126 | 5.87 | 5.93 | 4.18 | 4.53 | 5.12 |
| 189 | 6.30 | 6.60 | 4.22 | 4.76 | 5.47 |
| MEAN | 4.60 | 4.69 | 3.11 | 3.55 | 3.99 |

STRAW MEAN DM% 93.8

SUB PLOT AREA HARVESTED 0.00260



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75/W/RN/3

BARLEY 2ND TREATMENT CROP

ARABLE AND ARABLE H

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | ARABLE | ARAPLEH | MEAN |
|---|---|---|---|
| FYMRES67 | | | |
| NONE | 2.01 | 2.53 | 2.27 |
| FYM | 2.30 | 2.43 | 2.37 |
| FUMRES72 | | | |
| NONE | 2.19 | 2.42 | 2.30 |
| CHLOR/AL | 2.12 | 2.54 | 2.33 |
| FUMRES74 | | | |
| NONE | 2.07 | 2.43 | 2.25 |
| DICHL/AL | 2.25 | 2.52 | 2.39 |
| MEAN | 2.16 | 2.48 | 2.32 |

STRAW TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | ARABLE | ARABLEH | MEAN |
|---|---|---|---|
| FYMRES67 | | | |
| NONE | 1.40 | 1.94 | 1.67 |
| FYM | 1.55 | 1.70 | 1.63 |
| FUMRES72 | | | |
| NONE | 1.51 | 1.71 | 1.61 |
| CHLOR/AL | 1.43 | 1.93 | 1.68 |
| FUMRES74 | | | |
| NONE | 1.40 | 1.80 | 1.60 |
| DICHL/AL | 1.55 | 1.84 | 1.69 |
| MEAN | 1.47 | 1.82 | 1.65 |

STRAW MEAN DM% 87.8

PLOT AREA HARVESTED 0.00260



*https://doi.org/10.23637/ERADOC-1-141* 

75/W/RN/3

BARLEY 2ND TREATMENT CROP

LEY AND SANFOIN

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | LEY | SAINFOIN | MEAN |
|---|---|---|---|
| FYMRES67 | | | |
| NONE | 2.30 | 2.00 | 2.15 |
| FYM | 2.39 | 2.43 | 2.41 |
| FUMRES74 | | | |
| NONE | 2.20 | 2.11 | 2.15 |
| DICHL/AL | 2.49 | 2.32 | 2.41 |
| MEAN | 2.35 | 2.22 | 2.28 |

GRAIN MEAN DM% 84.1

STRAW TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | LEY | SAINFOIN | MEAN |
|---|---|---|---|
| FYMRES67 | | | |
| NONE | 1.38 | 1.60 | 1.49 |
| FYM | 1.37 | 1.79 | 1.83 |
| FUMRES74 | | | |
| NONE | 1.35 | 1.59 | 1.47 |
| DICHL/AL | 1.90 | 1.79 | 1.85 |
| MEAN | 1.63 | 1.69 | 1.66 |

STRAW MEAN DM% 87.4

PLOT AREA HARVESTED 0.00559



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75/W/RN/3

BARLEY 3RD TREATMENT CROP

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | ARABLE | SAINFOIN | MEAN |
|---|---|---|---|
| FYMRES66 | | | |
| NONE | 1.73 | 1.34 | 1.53 |
| FYM | 1.78 | 2.09 | 1.93 |
| FUMRES71 | | | |
| NONE | 1.79 | 1.86 | 1.82 |
| CHLOR/AL | 1.72 | 1.57 | 1.64 |
| FUMRES73 | | | |
| NONE | 1.78 | 1.76 | 1.77 |
| CHLOR/AL | 1.73 | 1.66 | 1.70 |
| MEAN | 1.75 | 1.71 | 1.73 |

GRAIN MEAN DM% 83.0

STRAW TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | ARABLE | SAINFOIN | MEAN |
|---|---|---|---|
| FYMRES66 | | | |
| NONE | 1.52 | 1.76 | 1.64 |
| FYM | 1.64 | 2.56 | 2.10 |
| FUMRES71 | | | |
| NONE | 1.63 | 2.40 | 2.01 |
| CHLOR/AL | 1.52 | 1.92 | 1.72 |
| FUMRES73 | | | |
| NONE | 1.62 | 2.26 | 1.94 |
| CHLOR/AL | 1.53 | 2.05 | 1.79 |
| MEAN | 1.58 | 2.16 | 1.87 |

STRAW MEAN DM% 85.2

PLOT AREA HARVESTED 0.00260



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75/W/RN/3

POTATOES 1ST TEST CROP

TOTAL TUBERS TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION TYPE | LEY | CLOVER | ARABLE | ARABLEH | MEAN |
|---|---|---|---|---|---|
| PERM | 36.5 | 38.1 | 13.6 | 25.2 | 28.4 |
| ALT | 32.3 | 32.3 | 23.5 | 27.6 | 28.9 |
| FYMRES65 | | | | | |
| NONE | 33.8 | 36.1 | 16.6 | 26.7 | 28.3 |
| FYM | 35.0 | 34.3 | 20.4 | 26.2 | 29.0 |
| FUM75 | | | | | |
| NONE | 29.4 | 28.6 | 14.8 | 18.3 | 22.8 |
| DICHL/AL | 39.3 | 41.8 | 22.2 | 34.6 | 34.5 |
| MEAN | 34.4 | 35.2 | 18.5 | 26.4 | 28.6 |

PERCENTAGE WARE 3.81 (1.5 CM) RIDDLE

*** TABLES OF MEANS ***

| ROTATION TYPE | LEY | CLOVER | ARABLE | ARABLEH | MEAN |
|---|---|---|---|---|---|
| PERM | 91.2 | 93.7 | 73.6 | 83.7 | 85.5 |
| ALT | 91.1 | 90.8 | 83.6 | 90.4 | 89.0 |
| FYMRES65 | | | | | |
| NONE | 90.6 | 91.9 | 78.8 | 87.6 | 87.2 |
| FYM | 91.7 | 92.6 | 78.4 | 86.5 | 87.3 |
| FUM75 | | | | | |
| NONE | 89.8 | 89.9 | 72.6 | 81.3 | 83.4 |
| DICHL/AL | 92.4 | 94.6 | 84.6 | 92.8 | 91.1 |
| MEAN | 91.1 | 92.2 | 78.6 | 87.1 | 87.3 |

PLOT AREA HARVESTED 0.00280



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75/N/RN/3

POTATOES 1ST TREATMENT CROP

ARABLE AND ARABLE H PLOTS

TOTAL TUBERS TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | ARABLE | ARABLEH | MEAN |
|---|---|---|---|
| FYMRES63 | | | |
| NONE | 12.2 | 10.1 | 11.1 |
| FYM | 13.6 | 10.5 | 12.1 |
| FUMRES73 | | | |
| NONE | 13.0 | 9.3 | 11.1 |
| CHLOR/AL | 12.7 | 11.4 | 12.1 |
| FUM75(70) | | | |
| NONE | 10.7 | 8.4 | 9.6 |
| DICHL/AL | 15.0 | 12.2 | 13.6 |
| MEAN | 12.9 | 10.3 | 11.6 |

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

*** TABLES OF MEANS ***

| ROTATION | ARABLE | ARABLEH | MEAN |
|---|---|---|---|
| FYMRES63 | | | |
| NONE | 93.8 | 93.1 | 93.4 |
| FYM | 94.8 | 90.6 | 92.7 |
| FUMRES73 | | | |
| NONE | 93.9 | 90.0 | 91.9 |
| CHLOR/AL | 94.8 | 93.7 | 94.2 |
| MEAN | 94.3 | 91.8 | 93.1 |
| FUM75(70) | | | |
| NONE | 94.6 | 89.5 | 92.0 |
| DICHL/AL | 94.1 | 94.2 | 94.1 |
| MEAN | 94.3 | 91.8 | 93.1 |

PLOT AREA HARVESTED 0.00280



*https://doi.org/10.23637/ERADOC-1-141* 

75/W/RN/3

POTATOES 1ST TREATMENT CROP

LEY AND SAINFOIN PLOTS

TOTAL TUBERS TONNES/HECTARE

*** TABLES OF MEANS ***

| ROTATION | LEY | SAINFOIN | MEAN |
|---|---|---|---|
| FYMRES63 | | | |
| NONE | 12.8 | 12.7 | 12.8 |
| FYM | 14.6 | 11.2 | 12.9 |
| FUMRES73 | | | |
| NONE | 13.4 | 12.0 | 12.7 |
| CHLOR/AL | 14.1 | 11.9 | 13.0 |
| FUM75 | | | |
| NONE | 11.3 | 8.9 | 10.1 |
| DICHL/AL | 16.1 | 15.1 | 15.6 |
| MEAN | 13.7 | 12.0 | 12.8 |

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

*** TABLES OF MEANS ***

| ROTATION | LEY | SAINFOIN | MEAN |
|---|---|---|---|
| FYMRES63 | | | |
| NONE | 93.5 | 94.7 | 94.1 |
| FYM | 94.4 | 94.4 | 94.4 |
| FUMRES73 | | | |
| NONE | 93.6 | 94.5 | 94.1 |
| CHLOR/AL | 94.2 | 94.6 | 94.4 |
| FUM75 | | | |
| NONE | 92.9 | 93.7 | 93.3 |
| DICHL/AL | 95.0 | 95.4 | 95.2 |
| MEAN | 93.9 | 94.5 | 94.2 |

PLOT AREA HARVESTED 0.00280



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