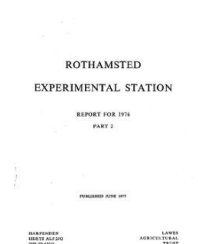


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Rothamsted Experimental Station Report for 1976, Part 2



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Use of Fertilisers in England and Wales, 1976

B. M. Church

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Use of Fertilisers in England and Wales, 1976

B. M. CHURCH

Continuing the series of annual surveys done by ADAS Soil Scientists and representatives of the Fertiliser Manufacturers Association in collaboration with the Statistics Department, Rothamsted (Church & Webber, 1971) a representative sample of 1380 farms was surveyed in England and Wales in 1976.

Efficiency of field work was increased in 1976 by excluding farms with less than 20 ha (50 acres) crops and grass and 'agriculturally insignificant holdings' with total inputs less than 275 standard man-days. Estimates of use per hectare given in reports for previous years must therefore be adjusted to be strictly comparable with those for 1976.

Estimated N use on grassland was slightly less in 1976 than in 1975, but more N was used per hectare on tillage crops, partly because the area under winter wheat recovered from the depressed levels of the previous year. The decline in use of P and K over the last three years was also checked (Table 1).

As preliminary estimates of fertiliser use were required by October, a random sub-sample of 800 farms was surveyed in June–July and the rest in August–September. Estimates of fertiliser use are for the 'crop year' October–September, so fertiliser use in the late summer had to be forecast for farms in the first half of the sample.

Due to the exceptionally low summer rainfall these forecasts, particularly for N on grassland, overestimated actual use as determined from the second half of the sample. However, the unadjusted estimates from the first half of the sample are themselves of interest because they suggest that N use on grassland would have been maintained, or possibly continued to increase in 1976 had this been a normal year (Table 2).

TABLE 1

Fertiliser use on tillage, leys and permanent grass, 1973–76 (kg ha⁻¹)

| | Tillage | | | Leys | | | P.G. | | | All crops & grass | | |
|-------|---------|-------------------------------|------------------|------|-------------------------------|------------------|------|-------------------------------|------------------|-------------------|-------------------------------|------------------|
| | N | P ₂ O ₅ | K ₂ O | N | P ₂ O ₅ | K ₂ O | N | P ₂ O ₅ | K ₂ O | N | P ₂ O ₅ | K ₂ O |
| 1973 | 89 | 54 | 60 | 129 | 44 | 32 | 63 | 26 | 16 | 87 | 43 | 39 |
| 1974 | 85 | 51 | 56 | 136 | 36 | 30 | 71 | 23 | 16 | 92 | 40 | 38 |
| 1975 | 87 | 46 | 51 | 142 | 34 | 28 | 77 | 20 | 16 | 96 | 35 | 34 |
| 1976* | 96 | 50 | 56 | 141 | 35 | 32 | 71 | 22 | 14 | 97 | 38 | 37 |

* Estimates for previous years adjusted to be comparable with those for 1976.

TABLE 2

Estimated use of N in 1975 and 1976 (kg ha⁻¹)

| | Tillage | Leys | P.G. | All crops & grass |
|---|---------|------|------|-------------------|
| 1975 | 87 | 142 | 77 | 96 |
| 1976 Preliminary sample (including forecasts) | 96 | 150 | 77 | 101 |
| Final estimate | 96 | 141 | 71 | 97 |

Estimates of average fertiliser use in 1976 and of the proportions of crop area getting different amounts of nutrients are given for major crops in Tables 3–6 on the following pages. Further details, in particular for grassland and for fruit and horticultural crops, will be reported elsewhere.

REFERENCE

CHURCH, B. M. & WEBBER, J. (1971) Fertiliser practice in England and Wales: a new series of surveys. *Journal of the Science of Food and Agriculture* 22, 1–7.

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TABLE 3
Fertiliser use in England and Wales, 1976

| Fields | Hectares ('000) | Overall* (kg ha ⁻¹) | | | | % Area receiving | | | | Actual* (kg ha ⁻¹) | | |
|-----------------------------|-----------------|---------------------------------|-------------------------------|------------------|-----|------------------|-----|----|-----|--------------------------------|-------------------------------|------------------|
| | | N | P ₂ O ₅ | K ₂ O | FYM | N | P | K | FYM | N | P ₂ O ₅ | K ₂ O |
| Spring wheat | 28 | 85 | 42 | 35 | 12 | 88 | 79 | 12 | 86 | 48 | 44 | |
| Winter wheat | 1102 | 102 | 42 | 33 | 12 | 96 | 70 | 12 | 106 | 52 | 47 | |
| Spring barley | 1476 | 78 | 38 | 38 | 18 | 98 | 93 | 18 | 79 | 40 | 41 | |
| Winter barley | 271 | 97 | 43 | 38 | 12 | 99 | 81 | 12 | 98 | 48 | 46 | |
| Spring oats | 225 | 69 | 36 | 33 | 18 | 88 | 86 | 18 | 67 | 41 | 38 | |
| Winter oats | 258 | 75 | 42 | 37 | 19 | 87 | 83 | 19 | 80 | 48 | 45 | |
| Mixed corn | 43 | 49 | 43 | 36 | 22 | 93 | 90 | 22 | 54 | 46 | 40 | |
| Maize | 31 | 117 | 60 | 63 | 52 | 94 | 90 | 52 | 119 | 64 | 69 | |
| Early potatoes | 88 | 29 | 172 | 206 | 40 | 100 | 100 | 40 | 172 | 165 | 206 | |
| Maincrop potatoes | 431 | 138 | 177 | 250 | 37 | 98 | 98 | 37 | 179 | 178 | 254 | |
| Sugar beet | 208 | 155 | 81 | 173 | 30 | 97 | 97 | 30 | 156 | 83 | 178 | |
| Swedes and turnips (stock) | 55 | 64 | 86 | 66 | 39 | 91 | 86 | 39 | 72 | 95 | 77 | |
| Mangolds | 5 | 132 | 89 | 123 | 61 | 97 | 97 | 61 | 137 | 92 | 127 | |
| Kale and cow cabbage | 224 | 55 | 107 | 53 | 36 | 87 | 87 | 36 | 117 | 61 | 65 | |
| Rape (stock) | 34 | 134 | 85 | 46 | 9 | 92 | 75 | 9 | 138 | 93 | 61 | |
| Beans (stock) | 32 | 3 | 25 | 13 | 10 | 39 | 26 | 10 | 24 | 66 | 49 | |
| Mixed roots and green crops | 57 | 86 | 89 | 77 | 39 | 91 | 88 | 39 | 92 | 98 | 88 | |
| Peas—vining | 80 | 4 | 15 | 17 | 6 | 29 | 28 | 6 | 31 | 51 | 60 | |
| Peas—harvested dry | 59 | 25 | 39 | 31 | 7 | 62 | 54 | 7 | 31 | 64 | 58 | |
| Broad beans | 22 | 8 | 20 | 103 | 1 | 92 | 74 | 1 | 61 | 92 | 139 | |
| Runner beans | 25 | 5 | 98 | 80 | 8 | 56 | 62 | 8 | 159 | 98 | 129 | |
| French beans | 20 | 6 | 114 | 71 | 26 | 77 | 78 | 26 | 147 | 91 | 104 | |
| Brussels sprouts | 76 | 18 | 261 | 168 | 6 | 98 | 93 | 6 | 266 | 109 | 181 | |
| Cabbages | 134 | 18 | 180 | 85 | 28 | 88 | 87 | 28 | 182 | 96 | 173 | |
| Cauliflower | 56 | 10 | 174 | 93 | 25 | 92 | 74 | 25 | 190 | 132 | 218 | |
| Carrots | 38 | 9 | 64 | 53 | 12 | 77 | 77 | 12 | 82 | 68 | 109 | |
| Onions | 65 | 9 | 119 | 112 | 3 | 95 | 95 | 3 | 120 | 118 | 164 | |
| Lettuce | 46 | 7 | 163 | 75 | 27 | 100 | 94 | 27 | 164 | 78 | 171 | |
| Oilseed rape | 65 | 26 | 240 | 60 | 7 | 100 | 70 | 7 | 240 | 61 | 79 | |
| Arable silage | 67 | 23 | 83 | 42 | 37 | 91 | 85 | 37 | 91 | 49 | 46 | |
| All tillage | 9367 | 4076 | 96 | 50 | 18 | 88 | 82 | 18 | 102 | 57 | 68 | |
| One year leys | 117 | 45 | 137 | 29 | 27 | 95 | 48 | 27 | 145 | 54 | 50 | |
| Two to seven year leys | 3366 | 1842 | 141 | 35 | 42 | 65 | 64 | 42 | 156 | 54 | 50 | |
| Permanent grass | 4015 | 2908 | 71 | 22 | 31 | 66 | 41 | 31 | 107 | 49 | 35 | |
| All crops and grass | 16899 | 8885 | 97 | 38 | 27 | 69 | 65 | 27 | 116 | 55 | 58 | |

* The average application of any fertiliser component over all fields, including those receiving none of that component, is termed 'overall'. The average, excluding fields with none of the component, is termed 'actual'.

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TABLE 4
Percentages of crop area getting different amounts of N (kg ha⁻¹)

| | Fields | 0 | <25 | 25- | 50- | 75- | 100- | 125- | 150- | 200- | 250- | 300- | 400+ |
|-----------------------------|--------|----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Spring wheat | 109 | 0 | 2 | 9 | 22 | 25 | 28 | 11 | 2 | 0 | 0 | 0 | 0 |
| Winter wheat | 2184 | 4 | 2 | 4 | 8 | 22 | 32 | 19 | 9 | 0 | 0 | 0 | 0 |
| Spring barley | 2745 | 2 | 1 | 9 | 26 | 41 | 16 | 4 | 1 | 0 | 0 | 0 | 0 |
| Winter barley | 538 | 1 | 2 | 3 | 10 | 35 | 33 | 11 | 5 | 0 | 0 | 0 | 0 |
| Spring oats | 225 | 11 | 3 | 16 | 30 | 30 | 6 | 3 | 1 | 0 | 0 | 0 | 0 |
| Winter oats | 258 | 6 | 6 | 14 | 20 | 26 | 22 | 3 | 2 | 0 | 0 | 0 | 0 |
| Mixed corn | 43 | 10 | 3 | 34 | 41 | 4 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maize | 76 | 2 | 0 | 2 | 3 | 17 | 27 | 41 | 9 | 0 | 1 | 0 | 0 |
| Early potatoes | 88 | 0 | 0 | 2 | 0 | 5 | 4 | 18 | 57 | 7 | 5 | 3 | 0 |
| Maincrop potatoes | 431 | 1 | 2 | 1 | 1 | 1 | 4 | 8 | 58 | 20 | 4 | 1 | 0 |
| Sugar beet | 441 | 0 | 0 | 1 | 0 | 4 | 10 | 29 | 43 | 9 | 2 | 2 | 0 |
| Swedes and turnips (stock) | 210 | 12 | 3 | 25 | 26 | 15 | 8 | 6 | 4 | 1 | 0 | 0 | 0 |
| Mangolds | 51 | 3 | 2 | 2 | 6 | 22 | 12 | 23 | 19 | 2 | 4 | 7 | 0 |
| Kale and cow cabbage | 224 | 8 | 0 | 3 | 19 | 13 | 13 | 22 | 17 | 4 | 0 | 1 | 0 |
| Rape (stock) | 78 | 3 | 2 | 13 | 19 | 14 | 4 | 2 | 9 | 14 | 20 | 0 | 0 |
| Beans (stock) | 98 | 87 | 9 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mixed roots and green crops | 57 | 7 | 0 | 19 | 22 | 9 | 19 | 11 | 10 | 4 | 0 | 0 | 0 |
| Peas—vining | 80 | 86 | 1 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peas—harvested dry | 59 | 85 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Broad beans | 22 | 67 | 0 | 17 | 12 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Runner beans | 25 | 38 | 0 | 0 | 2 | 9 | 0 | 20 | 10 | 20 | 1 | 0 | 0 |
| French beans | 20 | 22 | 0 | 0 | 1 | 30 | 5 | 0 | 27 | 15 | 0 | 0 | 0 |
| Brussels sprouts | 76 | 2 | 0 | 1 | 0 | 6 | 12 | 3 | 16 | 11 | 19 | 28 | 0 |
| Cabbages | 134 | 1 | 0 | 2 | 4 | 6 | 9 | 8 | 31 | 27 | 5 | 7 | 0 |
| Cauliflower | 56 | 8 | 0 | 0 | 8 | 6 | 11 | 10 | 22 | 17 | 6 | 12 | 0 |
| Carrots | 38 | 23 | 0 | 11 | 15 | 37 | 9 | 0 | 4 | 0 | 0 | 0 | 0 |
| Onions | 65 | 0 | 0 | 7 | 6 | 35 | 20 | 10 | 11 | 7 | 3 | 2 | 0 |
| Lettuce | 46 | 0 | 0 | 10 | 5 | 11 | 3 | 4 | 25 | 38 | 0 | 5 | 0 |
| Oilseed rape | 65 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 12 | 32 | 38 | 9 | 1 |
| Arable silage | 67 | 9 | 0 | 18 | 16 | 27 | 11 | 13 | 3 | 0 | 0 | 3 | 0 |
| All tillage | 9367 | 6 | 1 | 7 | 15 | 26 | 20 | 11 | 9 | 2 | 1 | 1 | 0 |
| One year leys | 117 | 5 | 0 | 2 | 12 | 20 | 11 | 15 | 13 | 12 | 3 | 5 | 2 |
| Two to seven year leys | 3366 | 9 | 1 | 6 | 15 | 14 | 7 | 10 | 11 | 7 | 7 | 7 | 3 |
| Permanent grass | 4015 | 34 | 1 | 10 | 18 | 12 | 5 | 6 | 6 | 3 | 2 | 2 | 1 |
| All crops and grass | 16899 | 16 | 1 | 8 | 16 | 19 | 12 | 9 | 9 | 4 | 3 | 2 | 1 |

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TABLE 5
Percentages of crop area getting different amounts of P_2O_5 ($kg\ ha^{-1}$)

| | Fields | 0 | <25 | 25— | 50— | 75— | 100— | 125— | 150— | 200— | 250— | 300— | 400+ |
|-----------------------------|--------|----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Spring wheat | 109 | 12 | 6 | 59 | 14 | 6 | 0 | 0 | 1 | 2 | 0 | 0 | 0 |
| Winter wheat | 2184 | 19 | 2 | 35 | 37 | 5 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| Spring barley | 2745 | 4 | 7 | 72 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter barley | 538 | 11 | 6 | 45 | 31 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Spring oats | 225 | 12 | 10 | 58 | 15 | 4 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Winter oats | 258 | 13 | 6 | 35 | 42 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Mixed corn | 43 | 7 | 5 | 72 | 4 | 8 | 3 | 0 | 0 | 2 | 0 | 0 | 0 |
| Maize | 76 | 6 | 0 | 30 | 41 | 18 | 0 | 2 | 3 | 0 | 0 | 0 | 0 |
| Early potatoes | 88 | 0 | 0 | 0 | 3 | 5 | 3 | 16 | 64 | 6 | 1 | 1 | 0 |
| Maincrop potatoes | 431 | 2 | 2 | 1 | 1 | 3 | 5 | 9 | 54 | 18 | 2 | 4 | 0 |
| Sugar beet | 441 | 3 | 1 | 10 | 31 | 27 | 16 | 5 | 7 | 0 | 0 | 0 | 0 |
| Swedes and turnips (stock) | 210 | 9 | 3 | 22 | 14 | 13 | 13 | 7 | 13 | 4 | 0 | 0 | 0 |
| Mangolds | 51 | 3 | 1 | 14 | 35 | 15 | 10 | 4 | 13 | 5 | 0 | 0 | 0 |
| Kale and cow cabbage | 224 | 13 | 2 | 26 | 35 | 17 | 4 | 2 | 2 | 0 | 0 | 0 | 0 |
| Rape (stock) | 78 | 8 | 2 | 29 | 30 | 5 | 0 | 6 | 9 | 4 | 6 | 1 | 0 |
| Beans (stock) | 98 | 61 | 1 | 9 | 20 | 4 | 1 | 0 | 4 | 0 | 0 | 0 | 0 |
| Mixed roots and green crops | 57 | 9 | 0 | 7 | 22 | 25 | 14 | 8 | 13 | 3 | 0 | 0 | 0 |
| Peas—vining | 80 | 71 | 0 | 18 | 10 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Peas—harvested dry | 59 | 38 | 3 | 20 | 24 | 8 | 0 | 0 | 6 | 1 | 0 | 0 | 0 |
| Broad beans | 22 | 8 | 0 | 1 | 47 | 20 | 5 | 19 | 0 | 0 | 0 | 0 | 0 |
| Runner beans | 25 | 44 | 0 | 2 | 6 | 29 | 0 | 19 | 0 | 0 | 0 | 0 | 0 |
| French beans | 20 | 23 | 0 | 0 | 5 | 48 | 24 | 1 | 0 | 0 | 0 | 0 | 0 |
| Brussels sprouts | 76 | 8 | 0 | 11 | 14 | 29 | 5 | 10 | 21 | 0 | 2 | 0 | 0 |
| Cabbages | 134 | 12 | 1 | 9 | 31 | 9 | 11 | 15 | 11 | 0 | 0 | 0 | 0 |
| Cauliflower | 56 | 30 | 0 | 0 | 17 | 4 | 12 | 15 | 8 | 15 | 0 | 0 | 0 |
| Carrots | 38 | 23 | 0 | 39 | 11 | 12 | 9 | 3 | 3 | 0 | 0 | 0 | 0 |
| Onions | 65 | 5 | 0 | 9 | 16 | 30 | 7 | 3 | 25 | 4 | 0 | 0 | 0 |
| Lettuce | 46 | 4 | 0 | 12 | 39 | 22 | 18 | 1 | 4 | 0 | 0 | 0 | 1 |
| Oilseed rape | 65 | 2 | 0 | 14 | 72 | 8 | 3 | 0 | 0 | 1 | 0 | 0 | 0 |
| Arable silage | 67 | 15 | 12 | 41 | 25 | 2 | 3 | 1 | 0 | 1 | 0 | 0 | 0 |
| All tillage | 9367 | 12 | 4 | 44 | 24 | 6 | 2 | 1 | 4 | 1 | 0 | 0 | 0 |
| One year leys | 117 | 47 | 4 | 27 | 11 | 7 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| Two to seven year leys | 3366 | 34 | 11 | 32 | 11 | 3 | 2 | 2 | 3 | 2 | 0 | 0 | 0 |
| Permanent grass | 4015 | 55 | 11 | 23 | 4 | 1 | 1 | 1 | 3 | 1 | 0 | 0 | 0 |
| All crops and grass | 16899 | 31 | 8 | 35 | 15 | 4 | 2 | 1 | 3 | 1 | 0 | 0 | 0 |

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TABLE 6

Percentages of crop area getting different amounts of k_2O ($kg\ ha^{-1}$)

| Fields | 0 | <25 | 25— | 50— | 75— | 100— | 125— | 150— | 200— | 250— | 300— | 400+ |
|-----------------------------|-------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Spring wheat | 21 | 2 | 51 | 19 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter wheat | 30 | 2 | 36 | 27 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spring barley | 7 | 5 | 65 | 18 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter barley | 19 | 3 | 45 | 27 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spring oats | 14 | 7 | 60 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter oats | 17 | 6 | 40 | 34 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mixed corn | 43 | 5 | 65 | 18 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maize | 76 | 0 | 24 | 35 | 22 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Early potatoes | 88 | 0 | 2 | 0 | 0 | 2 | 10 | 41 | 13 | 22 | 8 | 1 |
| Maincrop potatoes | 431 | 1 | 1 | 0 | 1 | 1 | 9 | 24 | 24 | 36 | 20 | 3 |
| Sugar beet | 441 | 3 | 1 | 8 | 8 | 11 | 6 | 23 | 27 | 7 | 5 | 2 |
| Swedes and turnips (stock) | 210 | 3 | 26 | 19 | 16 | 11 | 3 | 6 | 2 | 0 | 0 | 0 |
| Mangolds | 51 | 1 | 4 | 30 | 10 | 10 | 8 | 15 | 10 | 8 | 1 | 0 |
| Kale and cow cabbage | 224 | 1 | 27 | 30 | 17 | 5 | 4 | 1 | 1 | 0 | 0 | 0 |
| Rape (stock) | 78 | 5 | 39 | 21 | 5 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| Beans (stock) | 98 | 74 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mixed roots and green crops | 57 | 12 | 10 | 27 | 15 | 9 | 7 | 12 | 3 | 0 | 0 | 0 |
| Peas—vining | 80 | 72 | 9 | 17 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peas—harvested dry | 59 | 46 | 12 | 25 | 9 | 4 | 0 | 0 | 0 | 0 | 1 | 0 |
| Broad beans | 22 | 26 | 1 | 2 | 0 | 8 | 54 | 10 | 0 | 0 | 0 | 0 |
| Runner beans | 25 | 38 | 0 | 5 | 30 | 0 | 4 | 21 | 3 | 0 | 0 | 0 |
| French beans | 20 | 22 | 0 | 17 | 6 | 24 | 30 | 0 | 1 | 0 | 0 | 0 |
| Brussels sprouts | 76 | 7 | 0 | 1 | 8 | 17 | 9 | 30 | 13 | 6 | 5 | 2 |
| Cabbages | 134 | 10 | 1 | 7 | 8 | 9 | 16 | 30 | 6 | 4 | 1 | 6 |
| Cauliflower | 56 | 26 | 0 | 0 | 0 | 4 | 1 | 39 | 13 | 7 | 11 | 0 |
| Carrots | 38 | 23 | 0 | 4 | 11 | 16 | 9 | 12 | 1 | 3 | 0 | 0 |
| Onions | 65 | 5 | 4 | 2 | 12 | 16 | 14 | 21 | 19 | 2 | 5 | 2 |
| Lettuce | 46 | 1 | 1 | 16 | 8 | 2 | 1 | 40 | 30 | 0 | 0 | 0 |
| Oilseed rape | 65 | 30 | 0 | 46 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| Arable silage | 67 | 18 | 33 | 24 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| All tillage | 9367 | 18 | 42 | 20 | 5 | 2 | 1 | 3 | 3 | 2 | 1 | 0 |
| One year leys | 117 | 52 | 19 | 16 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| Two to seven year leys | 3366 | 36 | 30 | 12 | 6 | 4 | 2 | 0 | 1 | 0 | 0 | 0 |
| Permanent grass | 4015 | 59 | 24 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| All crops and grass | 16899 | 35 | 33 | 14 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |