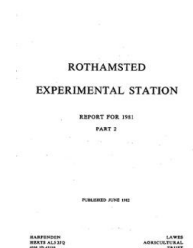


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Use of Fertilisers in England and Wales, 1981

B. M. Church

B. M. Church (1982) *Use of Fertilisers in England and Wales, 1981* ; Rothamsted Experimental Station Report For 1981 Part 2, pp 123 - 128 - DOI: <https://doi.org/10.23637/ERADOC-1-34189>

Use of Fertilisers in England and Wales, 1981

B. M. CHURCH

The series of annual surveys done by staff of the ADAS Regional Soil Scientists in collaboration with representatives of the Fertiliser Manufacturers' Association and Rothamsted (Church & Lewis, 1977) was continued in 1981 when a random sample of 1350 farms in England and Wales was surveyed.

As in the last 2 years, there is no evidence of any major change in the use of P and K, but use of N per hectare crops and grass is estimated to have been about 8% more in 1981 than in 1980. This increase, which was evident on both tillage crops and grassland, was entirely in straight N fertilisers (Table 1).

TABLE 1
Fertiliser use on tillage crops and grassland (kg ha⁻¹), 1978-81

| | Tillage crops | | | | Grassland | | | | All crops and grass | | | |
|-------------------------------|---------------|------|------|------|-----------|------|------|------|---------------------|------|------|------|
| | 1978 | 1979 | 1980 | 1981 | 1978 | 1979 | 1980 | 1981 | 1978 | 1979 | 1980 | 1981 |
| N Straight | 53 | 66 | 77 | 92 | 67 | 71 | 69 | 74 | 60 | 69 | 73 | 83 |
| Compound | 51 | 46 | 44 | 43 | 45 | 45 | 50 | 51 | 47 | 45 | 47 | 47 |
| Total | 104 | 112 | 121 | 135 | 112 | 116 | 119 | 125 | 107 | 114 | 120 | 130 |
| P ₂ O ₅ | 51 | 49 | 49 | 51 | 26 | 25 | 27 | 25 | 37 | 36 | 37 | 38 |
| K ₂ O | 56 | 53 | 54 | 56 | 24 | 26 | 26 | 26 | 39 | 38 | 40 | 41 |

The most striking increases are again in the use of straight N on cereals. In 1981, winter wheat received an average total of 162 kg ha⁻¹ N, comprising 144 kg ha⁻¹ straight and 18 kg ha⁻¹ in compound fertilisers. Nearly a fifth of the crop got more than 200 kg ha⁻¹ N, and total applications of 250 kg ha⁻¹ or more were reported (Table 2).

TABLE 2
Fertiliser use on winter wheat and spring barley (kg ha⁻¹), 1978-81

| | Winter wheat | | | | Spring barley | | | |
|-------------------------------|--------------|------|------|------|---------------|------|------|------|
| | 1978 | 1979 | 1980 | 1981 | 1978 | 1979 | 1980 | 1981 |
| N Straight | 106 | 117 | 126 | 144 | 21 | 26 | 24 | 37 |
| Compound | 19 | 18 | 19 | 18 | 62 | 62 | 63 | 61 |
| Total | 125 | 135 | 145 | 162 | 83 | 88 | 87 | 98 |
| P ₂ O ₅ | 44 | 46 | 46 | 49 | 38 | 37 | 37 | 37 |
| K ₂ O | 37 | 38 | 39 | 42 | 39 | 39 | 40 | 40 |

On spring barley, where increases in N use have been relatively modest in recent years, the total use of N, at 98 kg ha⁻¹, was up 12% and use of straight N was 50% more than in 1980. Extra top dressings, to compensate for loss of N from the seedbed due to the wet spring, certainly explain part of this large increase. However, it will be interesting to see whether a significant trend of increasing applications to spring cereals is becoming established. The average amounts of fertiliser nutrients used per hectare in 1981 on individual tillage crops, and on grassland classified according to utilisation, and the proportions of each crop which got different amounts of nutrient are summarised in Tables 3-8 at the end of this paper.

REFERENCE

- CHURCH, B. M. & LEWIS, D. A. (1977) Fertiliser use on farm crops in England and Wales: Information from the Survey of Fertiliser Practice 1942-1976. *Outlook on Agriculture* 9, 186-193.

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TABLE 3
Fertiliser use in England and Wales, 1981

| Fields | Hectares ('000) | Overall* (kg ha ⁻¹) | | | % Area receiving | | | Actual* (kg ha ⁻¹) | | |
|----------------------------|-----------------|---------------------------------|-------------------------------|------------------|------------------|-----|-----|--------------------------------|-------------------------------|------------------|
| | | N | P ₂ O ₅ | K ₂ O | N | P | K | N | P ₂ O ₅ | K ₂ O |
| Spring wheat | 29 | 133 | 31 | 31 | 100 | 77 | 77 | 133 | 40 | 40 |
| Winter wheat | 1415 | 162 | 49 | 42 | 99 | 88 | 79 | 163 | 56 | 53 |
| Spring barley | 1915 | 98 | 37 | 40 | 98 | 95 | 94 | 100 | 39 | 43 |
| Winter barley | 755 | 143 | 50 | 47 | 99 | 92 | 88 | 144 | 54 | 54 |
| Spring oats | 39 | 72 | 37 | 36 | 95 | 95 | 91 | 76 | 39 | 39 |
| Winter oats | 55 | 107 | 49 | 46 | 99 | 90 | 87 | 109 | 54 | 52 |
| Mixed corn | 9 | 48 | 33 | 29 | 75 | 75 | 75 | 63 | 43 | 38 |
| Maize | 6 | 95 | 44 | 42 | 89 | 78 | 76 | 107 | 56 | 56 |
| Early potatoes | 20 | 198 | 203 | 229 | 100 | 100 | 100 | 198 | 203 | 229 |
| Maincrop potatoes | 337 | 194 | 192 | 259 | 98 | 98 | 98 | 199 | 197 | 266 |
| Sugar beet | 369 | 152 | 67 | 152 | 94 | 91 | 93 | 162 | 73 | 162 |
| Swedes (stock) | 18 | 60 | 115 | 75 | 88 | 96 | 90 | 68 | 120 | 84 |
| Turnips (stock) | 24 | 87 | 54 | 49 | 94 | 79 | 77 | 92 | 68 | 64 |
| Kale and cow cabbage | 29 | 110 | 44 | 51 | 96 | 85 | 85 | 115 | 52 | 59 |
| Rape for stockfeed | 118 | 94 | 72 | 43 | 89 | 77 | 77 | 105 | 94 | 56 |
| Beans for stockfeed | 31 | 3 | 30 | 24 | 16 | 50 | 48 | 19 | 61 | 49 |
| Other stockfeed | 18 | 69 | 71 | 66 | 77 | 86 | 82 | 90 | 83 | 81 |
| Peas for human consumption | 85 | 16 | 27 | 28 | 35 | 56 | 57 | 45 | 48 | 50 |
| Runner and French beans | 34 | 95 | 68 | 83 | 61 | 85 | 85 | 156 | 79 | 97 |
| Brussels sprouts | 40 | 9 | 235 | 98 | 98 | 98 | 98 | 240 | 100 | 219 |
| Cabbages | 37 | 8 | 231 | 66 | 93 | 72 | 86 | 248 | 92 | 166 |
| Cauliflower | 62 | 12 | 177 | 91 | 100 | 95 | 95 | 177 | 96 | 161 |
| Onions | 41 | 6 | 148 | 102 | 100 | 76 | 97 | 148 | 134 | 178 |
| Small fruit | 4 | 68 | 26 | 70 | 65 | 48 | 61 | 104 | 55 | 115 |
| Top fruit | 116 | 33 | 82 | 20 | 80 | 59 | 59 | 102 | 34 | 61 |
| Oilseed rape | 221 | 128 | 260 | 46 | 99 | 85 | 65 | 263 | 54 | 55 |
| All tillage | 8030 | 135 | 51 | 56 | 95 | 89 | 84 | 142 | 57 | 66 |
| 1 year leys | 20 | 90 | 8 | 11 | 86 | 36 | 36 | 104 | 22 | 29 |
| 2-7 year leys | 2769 | 172 | 32 | 39 | 91 | 67 | 69 | 190 | 47 | 56 |
| Permanent grass | 3046 | 97 | 21 | 19 | 75 | 54 | 52 | 131 | 39 | 37 |
| All crops and grass | 13865 | 130 | 38 | 41 | 88 | 74 | 71 | 149 | 51 | 58 |

* The average application of any fertiliser component over all fields including those receiving none 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 | 69 | 0 | 2 | 5 | 18 | 15 | 19 | 39 | 1 | 0 | 0 | 0 |
| Winter wheat | 2065 | 1 | 1 | 2 | 6 | 9 | 18 | 46 | 16 | 2 | 0 | 0 |
| Spring barley | 1915 | 2 | 1 | 4 | 27 | 27 | 16 | 7 | 1 | 0 | 0 | 0 |
| Winter barley | 1263 | 1 | 1 | 3 | 7 | 16 | 27 | 35 | 8 | 1 | 0 | 0 |
| Spring oats | 126 | 5 | 0 | 6 | 43 | 9 | 1 | 1 | 1 | 0 | 0 | 0 |
| Winter oats | 155 | 1 | 4 | 9 | 21 | 20 | 26 | 9 | 4 | 0 | 0 | 0 |
| Mixed corn | 24 | 25 | 2 | 30 | 11 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maize | 21 | 11 | 1 | 10 | 24 | 16 | 20 | 17 | 0 | 0 | 0 | 0 |
| Early potatoes | 56 | 0 | 0 | 1 | 0 | 0 | 5 | 51 | 26 | 9 | 8 | 0 |
| Maincrop potatoes | 337 | 2 | 0 | 1 | 4 | 6 | 6 | 34 | 33 | 8 | 5 | 1 |
| Sugar beet | 369 | 6 | 0 | 1 | 4 | 7 | 21 | 45 | 1 | 1 | 0 | 0 |
| Swedes (stock) | 78 | 12 | 10 | 23 | 16 | 9 | 5 | 3 | 1 | 0 | 0 | 0 |
| Turnips (stock) | 82 | 6 | 0 | 24 | 17 | 6 | 5 | 19 | 0 | 3 | 0 | 0 |
| Kale and cow cabbage | 118 | 4 | 1 | 5 | 16 | 24 | 25 | 15 | 1 | 1 | 0 | 0 |
| Rape for stockfeed | 37 | 11 | 0 | 17 | 22 | 14 | 3 | 11 | 12 | 0 | 0 | 0 |
| Beans for stockfeed | 70 | 84 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other stockfeed | 72 | 23 | 9 | 10 | 21 | 12 | 4 | 11 | 1 | 0 | 1 | 0 |
| Peas for human consumption | 170 | 65 | 13 | 17 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Runner and French beans | 34 | 39 | 6 | 1 | 1 | 5 | 6 | 30 | 12 | 0 | 0 | 0 |
| Brussels sprouts | 40 | 2 | 0 | 2 | 0 | 16 | 2 | 14 | 21 | 17 | 12 | 14 |
| Cabbages | 37 | 7 | 0 | 1 | 8 | 6 | 6 | 15 | 6 | 30 | 17 | 4 |
| Cauliflower | 62 | 0 | 0 | 2 | 2 | 7 | 10 | 15 | 10 | 21 | 4 | 6 |
| Onions | 41 | 0 | 0 | 21 | 7 | 15 | 9 | 22 | 10 | 14 | 0 | 0 |
| Small fruit | 74 | 35 | 5 | 13 | 10 | 4 | 2 | 5 | 11 | 2 | 0 | 0 |
| Top fruit | 116 | 20 | 5 | 16 | 11 | 8 | 20 | 13 | 1 | 1 | 0 | 0 |
| Oilseed rape | 221 | 1 | 0 | 1 | 0 | 0 | 3 | 4 | 18 | 53 | 20 | 0 |
| All tillage | 8030 | 5 | 1 | 6 | 12 | 14 | 17 | 28 | 9 | 3 | 1 | 0 |
| 1 year leys | 20 | 14 | 11 | 10 | 23 | 3 | 16 | 0 | 7 | 6 | 0 | 0 |
| 2-7 year leys | 2769 | 9 | 0 | 5 | 10 | 5 | 7 | 13 | 11 | 9 | 12 | 6 |
| Permanent grass | 3046 | 25 | 1 | 15 | 12 | 5 | 7 | 9 | 5 | 4 | 4 | 2 |
| All crops and grass | 13865 | 12 | 1 | 10 | 12 | 10 | 12 | 19 | 8 | 5 | 4 | 2 |

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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 | 23 | 3 | 48 | 24 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter wheat | 12 | 2 | 28 | 44 | 12 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Spring barley | 5 | 9 | 65 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter barley | 8 | 5 | 28 | 45 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spring oats | 5 | 9 | 64 | 16 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter oats | 10 | 4 | 25 | 53 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mixed corn | 25 | 12 | 32 | 17 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maize | 22 | 0 | 23 | 38 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Early potatoes | 56 | 0 | 0 | 1 | 0 | 5 | 13 | 27 | 40 | 5 | 10 | 0 |
| Maincrop potatoes | 337 | 2 | 0 | 0 | 9 | 5 | 7 | 30 | 31 | 9 | 5 | 1 |
| Sugar beet | 369 | 9 | 0 | 17 | 42 | 8 | 2 | 3 | 1 | 0 | 0 | 0 |
| Swedes (stock) | 78 | 4 | 10 | 16 | 20 | 7 | 4 | 11 | 14 | 8 | 0 | 0 |
| Turnips (stock) | 82 | 21 | 17 | 22 | 16 | 8 | 5 | 2 | 0 | 0 | 0 | 0 |
| Kale and cow cabbage | 118 | 15 | 34 | 35 | 9 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Rape for stockfeed | 37 | 23 | 20 | 18 | 7 | 3 | 0 | 3 | 13 | 0 | 3 | 0 |
| Beans for stockfeed | 70 | 50 | 17 | 17 | 8 | 0 | 1 | 3 | 0 | 0 | 0 | 0 |
| Other stockfeed | 72 | 14 | 19 | 26 | 9 | 6 | 4 | 11 | 2 | 0 | 1 | 0 |
| Peas for human consumption | 170 | 44 | 17 | 15 | 4 | 3 | 0 | 1 | 1 | 0 | 0 | 0 |
| Runner and French beans | 34 | 15 | 9 | 27 | 30 | 13 | 6 | 0 | 0 | 0 | 0 | 0 |
| Brussels sprouts | 40 | 2 | 4 | 21 | 20 | 25 | 18 | 10 | 0 | 0 | 0 | 0 |
| Cabbages | 37 | 28 | 12 | 16 | 20 | 13 | 2 | 8 | 0 | 0 | 0 | 0 |
| Cauliflower | 62 | 5 | 9 | 11 | 12 | 56 | 1 | 5 | 0 | 0 | 0 | 0 |
| Onions | 41 | 24 | 1 | 11 | 20 | 1 | 6 | 35 | 3 | 0 | 0 | 0 |
| Small fruit | 74 | 52 | 4 | 6 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Top fruit | 116 | 41 | 14 | 9 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Oilseed rape | 221 | 15 | 18 | 56 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| All tillage | 8030 | 11 | 35 | 34 | 9 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |
| 1 year leys | 20 | 64 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2-7 year leys | 2769 | 33 | 31 | 14 | 5 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |
| Permanent grass | 3046 | 46 | 18 | 7 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| All crops and grass | 13865 | 26 | 31 | 22 | 6 | 1 | 1 | 1 | 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 | 69 | 23 | 4 | 46 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter wheat | 2065 | 21 | 4 | 31 | 32 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Spring barley | 1915 | 6 | 7 | 56 | 28 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter barley | 1263 | 12 | 3 | 33 | 38 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Spring oats | 126 | 9 | 6 | 64 | 19 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter oats | 155 | 13 | 4 | 31 | 35 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mixed corn | 24 | 25 | 15 | 37 | 18 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maize | 21 | 24 | 0 | 36 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Early potatoes | 56 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 37 | 25 | 12 | 18 | 4 |
| Maincrop potatoes | 337 | 2 | 0 | 2 | 0 | 1 | 1 | 5 | 12 | 14 | 33 | 27 | 4 |
| Sugar beet | 369 | 7 | 1 | 1 | 3 | 13 | 19 | 6 | 22 | 17 | 8 | 4 | 0 |
| Swedes (stock) | 78 | 10 | 6 | 13 | 24 | 17 | 15 | 4 | 11 | 0 | 0 | 0 | 0 |
| Turnips (stock) | 82 | 23 | 9 | 18 | 26 | 13 | 3 | 8 | 0 | 0 | 0 | 0 | 0 |
| Kale and cow cabbage | 118 | 15 | 4 | 29 | 35 | 10 | 5 | 1 | 2 | 0 | 0 | 0 | 0 |
| Rape for stockfeed | 37 | 23 | 2 | 33 | 31 | 8 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| Beans for stockfeed | 70 | 52 | 4 | 19 | 17 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other stockfeed | 72 | 18 | 5 | 20 | 22 | 6 | 12 | 4 | 11 | 1 | 0 | 0 | 0 |
| Peas for human consumption | 170 | 43 | 15 | 14 | 17 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Runner and French beans | 34 | 15 | 0 | 12 | 28 | 28 | 5 | 0 | 0 | 0 | 12 | 0 | 0 |
| Brussels sprouts | 40 | 2 | 0 | 0 | 0 | 2 | 4 | 15 | 28 | 8 | 17 | 24 | 0 |
| Cabbages | 37 | 14 | 0 | 1 | 7 | 17 | 16 | 1 | 20 | 4 | 15 | 0 | 5 |
| Cauliflower | 62 | 5 | 0 | 2 | 13 | 6 | 15 | 16 | 16 | 16 | 4 | 2 | 5 |
| Onions | 41 | 3 | 0 | 3 | 4 | 7 | 6 | 1 | 45 | 16 | 15 | 0 | 0 |
| Small fruit | 74 | 39 | 0 | 2 | 5 | 15 | 15 | 10 | 12 | 3 | 0 | 0 | 0 |
| Top fruit | 116 | 41 | 2 | 32 | 4 | 9 | 5 | 4 | 3 | 0 | 0 | 0 | 0 |
| Oilseed rape | 221 | 35 | 4 | 14 | 41 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| All tillage | 8030 | 16 | 4 | 34 | 28 | 8 | 2 | 1 | 2 | 2 | 1 | 1 | 0 |
| 1 year leys | 20 | 64 | 15 | 15 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2-7 year leys | 2769 | 31 | 9 | 27 | 15 | 8 | 5 | 3 | 2 | 0 | 0 | 0 | 0 |
| Permanent grass | 3046 | 48 | 14 | 25 | 9 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| All crops and grass | 13865 | 29 | 8 | 30 | 19 | 7 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

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TABLE 7
Fertiliser use on grassland classified by utilisation

| Fields | % Grassland area | | | | | | % Area receiving | | | | | | Actual* (kg ha ⁻¹) | | | |
|-------------------------|------------------|-------------------------------|------------------|----|----|----|------------------|-----|----|----|-----|---|--------------------------------|------------------|--|--|
| | N | P ₂ O ₅ | K ₂ O | N | P | K | FYM | N | P | K | FYM | N | P ₂ O ₅ | K ₂ O | | |
| Paddock grazed | 236 | 21 | 24 | 96 | 56 | 54 | 26 | 247 | 37 | 45 | | | | | | |
| Paddock grazed and mown | 201 | 41 | 44 | 91 | 64 | 65 | 55 | 221 | 65 | 68 | | | | | | |
| Strip grazed | 217 | 24 | 28 | 98 | 69 | 69 | 46 | 221 | 35 | 41 | | | | | | |
| Strip grazed and mown | 204 | 33 | 48 | 94 | 58 | 65 | 63 | 218 | 57 | 74 | | | | | | |
| Set stocked | 191 | 26 | 22 | 83 | 57 | 53 | 26 | 230 | 45 | 41 | | | | | | |
| Set stocked and mown | 177 | 34 | 48 | 95 | 73 | 77 | 50 | 187 | 47 | 62 | | | | | | |
| Cut for seed | 122 | 28 | 24 | 79 | 55 | 62 | 1 | 154 | 51 | 40 | | | | | | |
| Cut for silage | 201 | 38 | 56 | 98 | 79 | 83 | 63 | 205 | 48 | 68 | | | | | | |
| Cut for hay | 71 | 13 | 13 | 73 | 34 | 34 | 29 | 96 | 38 | 37 | | | | | | |
| Cut for hay and grazed† | 84 | 25 | 25 | 86 | 67 | 68 | 51 | 98 | 37 | 38 | | | | | | |
| Other grazings | 73 | 20 | 15 | 67 | 48 | 46 | 23 | 110 | 41 | 32 | | | | | | |
| Not stated/not used | 69 | 24 | 14 | 72 | 48 | 47 | 12 | 96 | 50 | 29 | | | | | | |
| All grass | 123 | 25 | 26 | 80 | 59 | 58 | 37 | 153 | 43 | 45 | | | | | | |

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

† Excluding fields intensively grazed as in the first 6 categories above.

TABLE 8

Percentages of grassland area by utilisation getting different amounts of N (kg ha⁻¹)

| Fields | <25 | 25- | 50- | 75- | 100- | 125- | 150- | 200- | 250- | 300- | 400+ |
|-------------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Paddock grazed | 4 | 0 | 11 | 7 | 3 | 14 | 7 | 3 | 12 | 22 | 16 |
| Paddock grazed and mown | 9 | 0 | 0 | 14 | 2 | 3 | 8 | 9 | 6 | 15 | 15 |
| Strip grazed | 2 | 0 | 4 | 10 | 4 | 13 | 19 | 11 | 7 | 15 | 13 |
| Strip grazed and mown | 6 | 0 | 3 | 7 | 9 | 9 | 13 | 18 | 14 | 20 | 1 |
| Set stocked | 17 | 0 | 6 | 6 | 3 | 5 | 9 | 5 | 7 | 15 | 14 |
| Set stocked and mown | 5 | 0 | 10 | 11 | 4 | 4 | 14 | 20 | 11 | 11 | 4 |
| Cut for seed | 21 | 0 | 11 | 2 | 0 | 4 | 25 | 14 | 7 | 3 | 0 |
| Cut for silage | 2 | 0 | 6 | 8 | 6 | 10 | 19 | 16 | 12 | 15 | 4 |
| Cut for hay | 27 | 0 | 2 | 26 | 10 | 12 | 6 | 1 | 0 | 0 | 0 |
| Cut for hay and grazed† | 14 | 1 | 13 | 20 | 6 | 8 | 8 | 6 | 1 | 1 | 0 |
| Other grazings | 33 | 1 | 11 | 12 | 5 | 6 | 8 | 3 | 4 | 2 | 0 |
| Not stated/not used | 28 | 1 | 24 | 10 | 4 | 8 | 3 | 8 | 0 | 2 | 1 |
| All grass | 20 | 1 | 9 | 12 | 5 | 7 | 10 | 7 | 6 | 7 | 3 |

† Excluding fields intensively grazed as in the first 6 categories above.