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RESEARCH

Yields of the Field Experiments 1971

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71/R/RN/1 and 71/R/RN/2 Ley/ARABLE - Old Grass, Leys, Barley, Wheat

Rothamsted Research

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71/R/RN/1 and 71/R/RN/2

LEY/ARABLE

Object: To study the effects of three-year leys on the fertility of the soil as measured by a sequence of three arable test crops. Since 1968, continuous winter wheat has been grown after the three test crops to study the build-up and decline of take-all (*Ophiobolus graminis*) after the different cropping sequences - Highfield and Fosters.

The 23rd year, old grass, leys, barley, wheat.

For previous years see 'Details' 1967, 68/B/1(t), 69/R/RN/1&2(t) and 70/R/RN/1&2(t).

Continuous winter wheat: The basal PK for blocks in continuous winter wheat is now 75 kg P205, 75 kg K20 as (0:20:20) combine drilled, the N test is unchanged.

Management of hay plots (H): These plots now receive 75 kg N, 75 kg P205, 75 kg K20 as (15:15:15) in spring and 75 kg N, 48 kg K20 as (25:0:16) after each cut except the last. They are cut at the same times as the leys.

HIGHFIELD

2nd year Treatment Crops:

All-grass ley: PK applied: 20 Oct, 1970. NK applied: 17 Mar, 1971. Cut four times: 19 May, 8 July, 13 Sept, 2 Nov. NK applied after first three cuts.

Clover-grass ley: PK applied: 20 Oct, 1970. K applied: 17 Mar, 1971. Cut four times: 19 May, 8 July, 13 Sept, 2 Nov. K applied after first three cuts.

Lucerne: PK applied: 20 Oct, 1970. Sprayed with paraquat at 0.56 kg ion in 225 l: 4 Feb, 1971. Cut three times: 4 June, 14 July, 7 Sept. Variety: Du Puits.

Hay: Seed undersown in barley at 32 kg: 7 May, 1970. NPK applied: 17 Mar, 1971. Cut four times: 26 May, 14 July, 13 Sept, 2 Nov. NK applied after first three cuts.

2nd Test Crop. Wheat:-

PK applied: 26 Sept, 1970. Deep-tine cultivated twice: 28 Sept. Seed combine drilled at 202 kg: 5 Oct. N applied, plots sprayed with 2,4-D at 0.56 kg plus dichlorprop at 2.24 kg in 225 l: 14 Apr, 1971. Combine harvested: 24 Aug. Variety: Joss Cambier.

71/R/RN/1 and 71/R/RN/2

3rd Test Crop. Barley:-

Ground chalk applied: 11 Sept, 1970. Ploughed twice: 11 Sept, 15 Dec. Seed combine drilled at 157 kg: 25 Feb, 1971. N applied: 5 Mar. Sprayed with ioxynil at 0.53 kg plus mecoprop at 1.57 kg in 225 l: 3 May. Combine harvested: 16 Aug. Variety: Julia.

4th, 6th and 7th Test Crops. Wheat:-

Ploughed: 11 Sept, 1970. Seed combine drilled at 202 kg: 5 Oct. N applied: 13 Apr, 1971. Sprayed with 2,4-D at 0.56 kg plus dichlorprop at 2.24 kg in 225 l: 14 Apr. Combine harvested: 24 Aug. Variety: Joss Cambier.

Permanent Grasses:

The 23rd experimental year permanent (old) grass, blocks 1, 2 and 4, the 23rd year reseeded grass, blocks 1 and 4. PK applied: 20 Oct, 1970. NK applied to 'all-grass' half plots, K to 'clover-grass' half plots: 17 Mar, 1971. Cut four times: 19 May, 8 July, 13 Sept, 2 Nov. NK applied to 'all-grass' half plots and K to 'clover-grass' half plots after each cut except the last.

FOSTERS

2nd year Treatment Crops:

All-grass ley: PK applied: 20 Oct, 1970. NK applied: 17 Mar, 1971. Cut four times: 19 May, 8 July, 13 Sept, 2 Nov. NK applied after first three cuts.

Clover-grass ley: PK applied: 20 Oct, 1970. K applied: 17 Mar, 1971. Cut four times: 19 May, 8 July, 13 Sept, 2 Nov. K applied after first three cuts.

Lucerne: PK applied: 20 Oct, 1970. Sprayed with paraquat at 0.56 kg ion in 225 l: 4 Feb, 1971. Cut three times: 4 June, 14 July, 7 Sept. Variety: Du Puits.

Hay: Seed undersown in barley at 32 kg: 7 May, 1970. NPK applied: 17 Mar, 1971. Cut four times: 26 May, 14 July, 13 Sept, 2 Nov. NK applied after first three cuts.

2nd Test Crop. Wheat:-

PK applied: 26 Sept, 1970. Deep-tine cultivated twice: 28 Sept. Seed combine drilled at 202 kg: 5 Oct. N applied: 13 Apr, 1971. Sprayed with 2,4-D at 0.56 kg plus dichlorprop at 2.24 kg ion 225 l: 15 Apr. Combine harvested: 24 Aug. Variety: Joss Cambier.

71/R/RN/1 and 71/R/RN/2

3rd Test Crop. Barley:-

Ploughed twice: 10 Sept, 14 Dec, 1970. Seed combine drilled at 157 kg: 25 Feb, 1971. N applied: 5 Mar. Sprayed with ioxynil at 0.53 kg plus mecoprop at 1.57 kg in 225 l: 3 May. Combine harvested: 16 Aug. Variety: Julia.

4th, 6th and 7th Test Crops. Wheat:-

Ploughed: 10 Sept, 1970. Seed combine drilled at 202 kg: 6 Oct. N applied: 13 Apr, 1971. Sprayed with 2,4-D at 0.56 kg plus dichlorprop at 2.24 kg in 225 l: 15 Apr. Combine harvested: 24 Aug. Variety: Joss Cambier.

Permanent Grasses:

The 23rd year reseeded grass, blocks 1 and 3. PK applied: 20 Oct, 1970. NK applied to 'all-grass' half plots, and K to 'clover-grass' half plots: 17 Mar, 1971. Cut four times: 19 May, 8 July, 13 Sept, 2 Nov. NK applied to 'all-grass' half plots and K to 'clover-grass' half plots after each cut except the last.

71/R/RN/1 and 71/R/RN/2

SUMMARY OF RESULTS

WHEAT 2ND TEST CROP

GRAIN: TONNES/HECTARE

HIGHFIELD

| | 1967 - 69 | | | | Mean | 1949-63 |
|------|-----------|------|------|------|------|---------|
| | LJ | LC | LN | AH | | R* |
| Mean | 6.65 | 6.17 | 6.86 | 6.62 | 6.58 | 6.06 |
| 1971 | | | | | | |
| NO | 6.18 | 5.72 | 5.46 | 5.43 | 5.70 | 5.74 |
| N1 | 7.24 | 6.32 | 7.35 | 6.71 | 6.90 | 6.07 |
| N2 | 7.32 | 6.64 | 7.61 | 7.10 | 7.17 | 6.42 |
| N3 | 5.87 | 6.01 | 7.03 | 7.24 | 6.54 | 5.99 |
| 1970 | | | | | | |
| F | 6.74 | 6.22 | 6.78 | 6.70 | 6.61 | 6.51 |
| D | 6.57 | 6.12 | 6.95 | 6.54 | 6.54 | 5.60 |
| 1970 | | | | | | |
| NO | 7.33 | 6.30 | 6.72 | 6.85 | 6.80 | 5.97 |
| N1 | 7.03 | 6.61 | 7.32 | 6.89 | 6.96 | 6.50 |
| N2 | 6.31 | 6.09 | 6.46 | 6.36 | 6.31 | 5.74 |
| N3 | 5.94 | 5.69 | 6.94 | 6.38 | 6.23 | 6.02 |

Mean D.M. %: 79.8

* AH since 1964

71/R/RN/1 and 71/R/RN/2

WHEAT 2ND TEST CROP

STRAW: TONNES/HECTARE

HIGHFIELD

| | 1967 - 69 | | | | Mean | 1949-63 |
|------|-----------|------|------|------|------|---------|
| | LU | LC | LN | AH | | R* |
| Mean | 7.66 | 7.68 | 7.17 | 6.97 | 7.37 | 7.14 |
| 1971 | | | | | | |
| NO | 7.02 | 7.02 | 6.36 | 5.57 | 6.49 | 6.14 |
| N1 | 8.56 | 7.94 | 7.44 | 7.11 | 7.76 | 7.28 |
| N2 | 7.90 | 7.92 | 7.87 | 7.45 | 7.78 | 7.84 |
| N3 | 7.17 | 7.85 | 7.01 | 7.73 | 7.44 | 7.32 |
| 1970 | | | | | | |
| F | 7.54 | 7.59 | 7.09 | 6.82 | 7.26 | 6.99 |
| D | 7.79 | 7.77 | 7.25 | 7.11 | 7.48 | 7.30 |
| 1970 | | | | | | |
| NO | 7.53 | 7.26 | 6.89 | 6.72 | 7.10 | 7.03 |
| N1 | 7.84 | 7.74 | 7.39 | 7.09 | 7.51 | 7.03 |
| N2 | 7.72 | 7.75 | 6.98 | 6.81 | 7.32 | 7.30 |
| N3 | 7.56 | 7.97 | 7.43 | 7.24 | 7.55 | 7.21 |

Mean D.M. %: 87.6

* AH since 1964

71/R/RN/1 and 71/R/RN/2

WHEAT 2ND TEST CROP

GRAIN: TONNES/HECTARE

FOSTERS

| | 1967 - 69 | | | | Mean | 1949-63 |
|------|-----------|------|------|------|------|---------|
| | LU | LC | LN | AH | | R* |
| Mean | 6.74 | 6.67 | 6.46 | 6.17 | 6.51 | 6.56 |
| 1971 | | | | | | |
| NO | 6.03 | 6.09 | 5.83 | 5.04 | 5.75 | 5.31 |
| N1 | 7.21 | 7.09 | 6.87 | 6.24 | 6.85 | 6.92 |
| N2 | 7.27 | 7.19 | 7.05 | 6.94 | 7.11 | 7.25 |
| N3 | 6.47 | 6.30 | 6.10 | 6.48 | 6.34 | 6.75 |
| 1970 | | | | | | |
| F | 6.64 | 6.54 | 6.34 | 5.69 | 6.30 | 6.68 |
| D | 6.85 | 6.80 | 6.59 | 6.66 | 6.72 | 6.44 |
| 1970 | | | | | | |
| NO | 7.00 | 6.62 | 6.47 | 5.91 | 6.50 | 6.48 |
| N1 | 6.79 | 6.83 | 6.14 | 5.91 | 6.42 | 6.32 |
| N2 | 6.52 | 6.58 | 6.81 | 6.46 | 6.59 | 6.47 |
| N3 | 6.66 | 6.64 | 6.43 | 6.41 | 6.54 | 6.96 |

Mean D.M. %: 79.0

* AH since 1964

71/R/RN/1 and 71/R/RN/2

WHEAT 2ND TEST CROP

STRAW: TONNES/HECTARE

POSTERS

| | 1967 - 69 | | | | Mean | 1949-63 |
|------|-----------|------|------|------|------|---------|
| | LU | LC | LN | AH | | R* |
| Mean | 7.08 | 7.19 | 6.61 | 6.54 | 6.86 | 7.02 |
| 1971 | | | | | | |
| NO | 5.77 | 6.02 | 5.53 | 4.90 | 5.55 | 5.73 |
| N1 | 7.07 | 7.49 | 6.69 | 6.28 | 6.88 | 7.07 |
| N2 | 8.18 | 7.54 | 7.71 | 7.25 | 7.67 | 7.78 |
| N3 | 7.29 | 7.72 | 6.53 | 7.73 | 7.32 | 7.51 |
| 1970 | | | | | | |
| F | 6.71 | 6.76 | 6.17 | 6.03 | 6.42 | 6.77 |
| D | 7.45 | 7.63 | 7.06 | 7.05 | 7.30 | 7.27 |
| 1970 | | | | | | |
| NO | 7.12 | 7.15 | 6.33 | 5.73 | 6.58 | 6.87 |
| N1 | 7.07 | 6.98 | 6.39 | 6.21 | 6.66 | 6.71 |
| N2 | 6.74 | 7.27 | 6.85 | 6.78 | 6.91 | 6.93 |
| N3 | 7.38 | 7.38 | 6.88 | 7.43 | 7.27 | 7.58 |

Mean D.M. %: 87.3

* AH since 1964

7L/R/RN/1 and 7L/R/RN/2
 BARLEY 3RD TEST CROP
 GRAIN: TONNES/HECTARE

HIGHFIELD

| | 1966 - 68 | | | | | 1951-62 | | 1951-68 | | Mean |
|------|-----------|------|------|------|------|---------|------|---------|------|------|
| | LU | LC | LN | AH | Mean | R* | GC | GN | | |
| Mean | 5.78 | 6.14 | 6.04 | 5.89 | 5.96 | 6.27 | 6.09 | 5.94 | 6.01 | |
| 1971 | | | | | | | | | | |
| N0 | 5.29 | 5.82 | 5.24 | 4.91 | 5.31 | 6.07 | 6.27 | 6.27 | 6.27 | |
| N1 | 6.27 | 6.29 | 6.76 | 6.37 | 6.42 | 6.61 | 6.55 | 5.96 | 6.20 | |
| N2 | 5.92 | 6.05 | 5.93 | 6.15 | 6.01 | 6.22 | 5.52 | 5.88 | 5.70 | |
| N3 | 5.64 | 6.40 | 6.25 | 6.14 | 6.11 | 6.19 | 6.01 | 5.64 | 5.82 | |
| 1970 | | | | | | | | | | |
| N0 | 6.35 | 6.09 | 5.70 | 5.85 | 6.00 | | | | | |
| N1 | 5.47 | 6.18 | 6.04 | 5.82 | 5.88 | | | | | |
| N2 | 5.75 | 5.84 | 6.22 | 6.01 | 5.96 | | | | | |
| N3 | 5.56 | 6.45 | 6.22 | 5.89 | 6.03 | | | | | |
| 1969 | | | | | | | | | | |
| F | 5.71 | 6.12 | 6.10 | 5.59 | 5.88 | | | | 6.14 | |
| D | 5.85 | 6.16 | 5.99 | 6.19 | 6.05 | | | | 6.40 | |

Mean D.M. %: 76.3

* AH since 1963

71/R/RN/1 and 71/R/RN/2

BARLEY 3RD TEST CROP

GRAIN: TONNES/HECTARE

FOSTERS

| | 1966 - 68 | | | | Mean | 1951-62 |
|------|-----------|------|------|------|------|---------|
| | LU | LC | LN | AH | | R* |
| Mean | 6.30 | 6.22 | 6.19 | 5.92 | 6.16 | 6.31 |
| 1971 | | | | | | |
| NO | 5.19 | 5.85 | 5.41 | 4.64 | 5.27 | 5.32 |
| N1 | 6.25 | 6.17 | 6.44 | 6.12 | 6.24 | 6.49 |
| N2 | 7.26 | 6.75 | 6.38 | 6.29 | 6.67 | 6.69 |
| N3 | 6.51 | 6.12 | 6.55 | 6.65 | 6.46 | 6.76 |
| 1970 | | | | | | |
| NO | 6.21 | 6.21 | 6.21 | 5.31 | 5.98 | 6.65 |
| N1 | 6.18 | 6.24 | 5.87 | 6.27 | 6.14 | 6.11 |
| N2 | 6.64 | 6.14 | 6.22 | 5.94 | 6.24 | 6.34 |
| N3 | 6.18 | 6.30 | 6.47 | 6.17 | 6.28 | 6.16 |
| 1969 | | | | | | |
| F | 6.33 | 6.03 | 6.15 | 5.93 | 6.11 | 5.94 |
| D | 6.27 | 6.42 | 6.24 | 5.91 | 6.21 | 6.69 |

Mean D.M. %: 78.8

* AH since 1963

7L/R/RN/1 and 7L/R/RN/2
 WHEAT 4TH TEST CROP
 GRAIN: TONNES/HECTARE

HIGHFIELD

| 1971 | 1965 - 67 | | | | 1950 - 67 | | | | Mean | |
|------|-----------|------|------|------|-----------|------|------|------|------|------|
| | LU | LC | LN | AH | Mean | RC | RN | GC | | GN |
| N1 | 4.87 | 6.47 | 6.69 | 6.10 | 6.03 | 7.01 | 7.42 | 6.72 | 6.73 | 6.97 |
| N2 | 5.17 | 6.76 | 6.57 | 6.32 | 6.21 | 6.35 | 7.08 | 5.83 | 7.35 | 6.65 |
| N3 | 5.23 | 6.57 | 6.82 | 5.72 | 6.08 | 6.56 | 5.67 | 5.93 | 5.99 | 6.04 |
| N4 | 5.71 | 5.76 | 5.75 | 5.96 | 5.80 | 5.32 | 5.58 | 4.68 | 5.79 | 5.34 |
| Mean | 5.24 | 6.39 | 6.46 | 6.03 | 6.03 | 6.31 | 6.44 | 5.79 | 6.46 | 6.25 |

Mean D.M. %: 82.1

71/R/RN/1 and 71/R/RN/2

WHEAT 4TH TEST CROP

GRAIN: TONNES/HECTARE

FOSTERS

| | 1965 - 67 | | | | 1950 - 67 | | | |
|------|-----------|------|------|------|-----------|------|------|------|
| | IU | IC | IN | AH | Mean | RC | RN | Mean |
| 1971 | | | | | | | | |
| N1 | 6.18 | 6.22 | 6.34 | 5.72 | 6.12 | 7.14 | 7.01 | 7.07 |
| N2 | 7.02 | 6.41 | 6.87 | 6.46 | 6.69 | 6.62 | 6.27 | 6.45 |
| N3 | 6.57 | 6.51 | 6.42 | 6.49 | 6.50 | 5.82 | 5.72 | 5.77 |
| N4 | 6.00 | 6.00 | 5.94 | 6.37 | 6.08 | 6.55 | 5.90 | 6.23 |
| Mean | 6.45 | 6.28 | 6.39 | 6.26 | 6.35 | 6.53 | 6.23 | 6.38 |

Mean D.M. %: 79.5

TL/R/RN/1 and TL/R/RN/2

WHEAT 6TH TEST CROP

GRAIN: TONNES/HECTARE

HIGHFIELD

| 1971 | 1963 - 65 | | | | Mean | 1951 - 68 | | | | Mean |
|------|-----------|------|------|------|------|-----------|------|------|------|------|
| | IJ | IC | IN | AH | | RC | RN | GC | GN | |
| N1 | 4.90 | 5.30 | 3.41 | 4.76 | 4.59 | 5.54 | 5.39 | 5.45 | 4.20 | 5.14 |
| N2 | 5.98 | 5.70 | 4.21 | 5.56 | 5.36 | 4.26 | 5.72 | 6.39 | 4.10 | 5.12 |
| N3 | 5.25 | 5.16 | 4.40 | 5.80 | 5.16 | 4.28 | 5.35 | 3.90 | 4.42 | 4.49 |
| N4 | 5.70 | 4.53 | 3.94 | 5.70 | 4.97 | 4.26 | 4.39 | 5.28 | 3.94 | 4.47 |
| Mean | 5.46 | 5.17 | 3.99 | 5.45 | 5.02 | 4.58 | 5.21 | 5.26 | 4.16 | 4.80 |

Mean D.M. %: 84.7

71/R/RN/1 and 71/R/RN/2

WHEAT 6TH TEST CROP

GRAIN: TONNES/HECTARE

FOSTERS

| 1971 | 1963 - 65 | | | | 1951 - 68 | |
|------|-----------|------|------|------|-----------|------|
| | LU | LC | LN | AH | Mean | Mean |
| N1 | 5.42 | 5.94 | 5.40 | 5.61 | 5.59 | 6.11 |
| N2 | 6.39 | 6.78 | 6.48 | 6.90 | 6.63 | 6.79 |
| N3 | 6.52 | 6.64 | 6.43 | 6.52 | 6.53 | 6.43 |
| N4 | 6.12 | 5.77 | 6.16 | 6.36 | 6.10 | 5.77 |
| Mean | 6.11 | 6.28 | 6.12 | 6.35 | 6.21 | 6.27 |

Mean D.M. %: 79.9

7L/R/RN/1 and 7L/R/RN/2

WHEAT 7TH TEST CROP

GRAIN: TONNES/HECTARE

HIGHFIELD

| | 1962 - 64 | | | | 1950-64 | | 1950 - 67 | | Mean |
|------|-----------|------|------|------|---------|------|-----------|------|------|
| | IU | IC | IN | AH | R | Mean | GC | GN | |
| N1 | 5.09 | 5.17 | 5.54 | 5.83 | 6.51 | 5.63 | 4.07 | 2.86 | 3.46 |
| N2 | 5.56 | 5.45 | 6.08 | 6.62 | 6.55 | 6.05 | 3.81 | 4.19 | 4.00 |
| N3 | 5.57 | 6.18 | 6.00 | 6.71 | 6.06 | 6.11 | 4.94 | 3.60 | 4.27 |
| N4 | 5.62 | 4.92 | 5.61 | 6.01 | 5.23 | 5.48 | 4.87 | 4.64 | 4.75 |
| Mean | 5.46 | 5.43 | 5.81 | 6.29 | 6.09 | 5.82 | 4.42 | 3.82 | 4.12 |

Mean D.M. %: 81.8

71/R/RN/1 and 71/R/RN/2

WHEAT 7TH TEST CROP

GRAIN: TONNES/HECTARE

FOSTERS

| | 1962 - 64 | | | | 1950-64 | Mean |
|------|-----------|------|------|------|---------|------|
| | LU | LC | LN | AH | R | |
| 1971 | | | | | | |
| N1 | 5.17 | 4.85 | 5.35 | 4.68 | 5.46 | 5.10 |
| N2 | 6.59 | 6.35 | 6.59 | 6.07 | 5.90 | 6.30 |
| N3 | 6.38 | 6.15 | 6.05 | 6.45 | 6.26 | 6.26 |
| N4 | 5.78 | 5.73 | 5.68 | 5.82 | 5.77 | 5.76 |
| Mean | 5.98 | 5.77 | 5.92 | 5.75 | 5.85 | 5.85 |

Mean D.M. %: 78.7

71/R/RN/1 and 71/R/RN/2

HAY

DRY MATTER: TONNES/HECTARE

| 1st cut | 2nd cut | 3rd cut | 4th cut | Total |
|-----------|---------|---------|---------|-------|
| HIGHFIELD | | | | |
| 6.50 | 3.01 | 4.13 | 1.86 | 15.50 |

Mean D.M. %: 1st cut: 15.9
 2nd cut: 21.6
 3rd cut: 25.2
 4th cut: 22.5
 Total of 4 cuts: 21.3

| | | | | |
|---------|------|------|------|-------|
| FOSTERS | | | | |
| 6.25 | 3.72 | 2.25 | 1.32 | 13.54 |

Mean D.M. %: 1st cut: 16.3
 2nd cut: 22.1
 3rd cut: 24.9
 4th cut: 22.3
 Total of 4 cuts: 21.4

71/R/RN/1 and 71/R/RN/2

| | HIGHFIELD | FOSTERS |
|--|-----------|---------|
| | Mean | Mean |

LUCERNE, DRY MATTER: TONNES/HECTARE

TOTAL OF 3 CUTS

| | | |
|----------|------|------|
| 2nd year | 4.66 | 5.56 |
|----------|------|------|

ALL-GRASS LEY, DRY MATTER: TONNES/HECTARE

TOTAL OF 4 CUTS

| | | |
|----------|------|------|
| 2nd year | 7.33 | 6.79 |
|----------|------|------|

CLOVER-GRASS LEY, DRY MATTER: TONNES/HECTARE

TOTAL OF 4 CUTS

| | | |
|----------|------|------|
| 2nd year | 3.22 | 4.06 |
|----------|------|------|

RESEEDED GRASS, DRY MATTER: TONNES/HECTARE

TOTAL OF 4 CUTS

| | HIGHFIELD | | | FOSTERS | | |
|--------------------|-----------|------|-------|---------|------|------|
| | Blocks | RC | RN | Blocks | RC | RN |
| 23rd Exptl year | 1 & 4 | 3.46 | 11.17 | 1 & 4 | 5.90 | 9.56 |

71/R/RN/1 and 71/R/RN/2

PERMANENT GRASS, DRY MATTER: TONNES/HECTARE

TOTAL OF 4 CUTS

| | GC | GN |
|-----------------|------|-------|
| HIGHFIELD | | |
| 23rd Exptl year | | |
| Blocks 1 & 4 | 3.21 | 10.41 |
| Block 2 | 2.97 | 10.24 |

(C) Clover-grass management
(N) All-grass management