Broadbalk Fertiliser and organic manure treatments

| | Treatments | Treatments | Treatments | Treatments | Treatments |
|-------|----------------|------------------|-------------------|-----------------|--------------------|
| Strip | until 1967 | from 1968 | from 1985 | from 2001 | from 2006 |
| | | | | | |
| 01 | - | FYM N2 PK | FYM N4 PK | (FYM) N4 | (FYM) N4 |
| 2.1 | FYM since 1885 | FYM N2 | FYM N2 | FYM N2 | FYM N3(since 2005) |
| 2.2 | FYM | FYM | FYM | FYM | FYM |
| 03 | Nil | Nil | Nil | Nil | Nil |
| 05 | PKNaMg | PK(Na)Mg | PKMg | (P)KMg | (P)KMg |
| 06 | N1 PKNaMg | N1 PK(Na)Mg | N1 PKMg | N1 (P)KMg | N1 (P)KMg |
| 07 | N2 PKNaMg | N2 PK(Na)Mg | N2 PKMg | N2 (P)KMg | N2 (P)KMg |
| 08 | N3 PKNaMg | N3 PK(Na)Mg | N3 PKMg | N3 (P)KMg | N3 (P)KMg |
| 09 | N*1 PKNaMg | N4 PK(Na)Mg | N4 PKMg | N4 (P)KMg | N4 (P)KMg |
| 10 | N2 | N2 | N2 | N4 | N4 |
| 11 | N2 P | N2 P | N2 P | N4 PMg | N4 PMg |
| 12 | N2 PNa | N2 PNa | N2 PNa | N1+3+1 (P)K2Mg2 | N1+3+1 (P)KMg |
| 13 | N2 PK | N2 PK | N2 PK | N4 PK | N4 PK |
| 14 | N2 PMg* | N2 PKMg* | N2 PKMg* | N4 PK*(Mg*) | N4 PK*(Mg*) |
| 15 | N2 PKNaMg | N3 PK(Na)Mg | N5 PKMg | N5 (P)KMg | N5 (P)KMg |
| 16 | N*2 PKNaMg | N2 PK(Na)Mg | N6 PKMg | N6 (P)KMg | N6 (P)KMg |
| 17 | N2(A) | N2 1/2[PK(Na)Mg] | N0+3 1/2[PKMg](A) | N1+4+1 PKMg | N1+4+1 PKMg |
| 18 | PKNaMg(A) | N2 1/2[PK(Na)Mg] | N1+3 1/2[PKMg](A) | N1+2+1 PKMg | N1+2+1 PKMg |
| 19 | С | С | (C) | N1+1+1 KMg | N1+1+1 KMg |
| 20 | N2 KNaMg | N2 K(Na)Mg | N2 KMg | N4 KMg | N4 KMg |

(A) Treatment to strips 17 & 18 alternating each year. From 1968 both strips received N2 and half-rate PK(Na)Mg; from 1980 wheat on strips 17 & 18 received N1+3 ie autumn N1 in alternate years plus N3 in spring. Maize did not receive autumn N

Annual treatment per hectare

| FYM: | Farmyard manure (from cattle) at 35t | N as single applications: | | | | | | |
|---------|--|--|----------------------------|------------|------------------------|---------------------------|--|--|
| (FYM): | Farmyard manure at 35t 1968-2000 only | N1,N2,N3,N4,N5,N6: 48,96,144,192,240,288 kgN | | | | | | |
| | 35kgP as triple superphosphate 35kgP as triple superphosphate until 2000; | Split N to wheat: | | | | | | |
| | to be reviewed in 2011 | N1+1+1: 48+48+48 kgN in mid-March,mid-April,mid-May (strip 19) | | | | | | |
| K : | 90kgK as potassium sulphate | N1+2+1:48+96+48 kgN | II . | " | 11 | (strip 18) | | |
| K2 : | 180kgK as potassium sulphate, 2001-2005. | N1+3+1: 48+144+48 kgN | " | " | " | (strip 12) | | |
| | (plus 450 kgK in autumn 2000 only) | N1+4+1: 48+192+48 kgN | II . | " | " | (strip 17) | | |
| K* : | 90kgK as potassium chloride | | | | | | | |
| Mg: | 12kgMg as Kieserite.Was 35kgMg every 3rd | Split N to forage maize: | | | | | | |
| | year 1974-2000.Previously 11kgMg as | st-emer | gence | (strip 19) | | | | |
| | magnesium sulphate until 1973 | N2+2 : 96+96 kgN " " | | | (strip 18) | | | |
| Mg2: | 24kgMg as Kieserite, 2001-2005. | N2+3:96+144 kgN " | " | | (s | trip 12) | | |
| | | | | | ,- | | | |
| | (plus 60 kg Mg in autumn 2000 only) | N2+4 : 96+192 kgN " | ıı | | • | trip 17) | | |
| (Mg*) : | (plus 60 kg Mg in autumn 2000 only) 30kgMg as Kieserite 1974-2000.Previously | · · | п | | • | trip 17) | | |
| (Mg*) : | | · · | | ım,34.5% | (s | | | |
| | 30kgMg as Kieserite 1974-2000.Previously | N2+4 : 96+192 kgN " | rate (Nitra | • | (s (N) siı | nce 1986; | | |
| | 30kgMg as Kieserite 1974-2000.Previously 31kgMg as magnesium sulphate until 1973 | N2+4: 96+192 kgN " N applied as ammonium nitr | rate (Nitra te (Nitro-c | halk,21- | (s 6N) si -27.5% | nce 1986; 6N) 1968-85; | | |

Note: S (sulphur) has been added, by default, as part of the potassium sulphate, magnesium sulphate, Keiserite, FYM and ammonium sulphate applications. S has not been applied to plot 14 from 2001 onwards.

For more detailed information on treatments, particularly before 1968, see "Details.."1967 and 1973; Station Report for 1966, pp.229-231; Station Report for 1968 Part 2; Station Report for 1982 Part 2, pp.5-44 and Yields of the Field Experiments 1971-2000