

		Strip 5		Old series		Series C		Series AA		Series A		Series O		Treatments to strips 1 - 4	
		551 N2PKMg ----- N2PK 552	561 PKMg ----- PK 562	571 N2Mg ----- N2 572	581 N2Mg ----- N2 582										
		444 N3	344 N0	244 N1	144 N2										
		443 N0	343 N2	243 N3	143 N1										
		442 N1	342 N3	242 N2	142 N0										
		441 N2	341 N1	241 N0	141 N3										
		(Si) -													
		434 2 0	334 2 3	234 3 0	134 1 0										
		433 3 1	333 1 0	233 1 2	133 2 3										
		(Si) Si													
		433 2 3	333 0 2	233 1 2	133 3 0										
		432 0 1	332 1 3	232 3 0	132 2 1										
		(-) Si													
		432 3 0	332 2 1	232 2 3	132 3 1										
		431 1 2	331 0 3	231 1 0	131 0 2										
		(-) -													
		431 0 2	331 3 0	231 1 0	131 2 0										
		431 3 1	331 2 1	231 2 3	131 3 1										
		724 N2	624 N0	424 N1	324 N0	224 N1	124 N3								
		721 N1	621 N2	423 N2	323 N1	223 N0	123 N0								
		(FYM)	(Ashes)	422 N0	322 N2	222 N3	122 N1								
		1852 - N0	1852-1932 N1	421 N3	321 N3	221 N2	121 N2								
		721 N3	621 N3	421 N3	321 N3	221 N2	121 N2								
		714 N1	614 N2	414 N0	314 N0	214 N2	114 N1								
		711 N2	612 N0	413 N2	313 N3	213 N1	113 N3								
		(FYM)	None	412 N3	312 N1	212 N0	112 N0								
		1852-71 N3	612 N1	411 N1	311 N2	211 N3	111 N2								
		711 N0	611 N3	411 N1	311 N2	211 N3	111 N2								
		PK	K	P	-	-	-								
		Na Mg	Na Mg	-	-	-	-								
		4	3	2	1										
		7	6	2	1										

Derived from plan in 'Rothamsted Experimental Station Guide to the Classical Experiments, 1991'  
Lawes Agricultural Trust, p20.

## Hoosfield Fertilizer and organic manure treatments 1979-2000

(see other plans for other years)

Treatments (per hectare per year unless indicated)

Nitrogen (applied in the spring)

N0, N1, N2, N3                      0, 48, 96, 144kg N as calcium ammonium nitrate (Nitro-chalk)

Organics (applied before ploughing, usually in the autumn)

FYM 1852 -                      35t Farmyard manure since 1852  
(FYM) 1852-71                      35t Farmyard manure, 1852-1871 only

Minerals (applied before ploughing in the autumn)

P                      35kg P as triple superphosphate (47%  $P_2O_5$ )  
K                      90kg K as potassium sulphate  
Mg                      35kg Mg as Kieserite every 3 years  
Si                      450kg as sodium silicate since 1980  
(Si)                      450kg as sodium silicate 1862-1979

(Ashes)      Ashes were added to minerals to aid spreading, 1852-1932 only

**Note:**      15kg Na as sodium sulphate discontinued in 1974 (applied with K and Mg);  
P, K and Mg last applied to Series C for 1979  
1970-72 plots 551 and 561 received 18kgP and 168kg K in error

Series treatments (last applied 1966, 1967 for parts of Series C)

O                      No fertilizer N  
A                      48kg N as ammonium sulphate  
AA                      48kg N as sodium nitrate  
C                      48kg N as castor bean meal since 1941; previously rape cake

**Lime:**      Lime has been applied as required since the 1950s to maintain soil pH at a level that does not compromise yield.

### Cropping:

Spring barley grown every year, except 1912, 1933, 1943 and 1967 when the whole experiment was fallowed to control weeds.

From 1968-1978 there was a rotation of barley - beans - potatoes on some plots of Series AA and C. See Plan 1968-78 for details.

**Reference:** 'Rothamsted Experimental Station Guide to the Classical Experiments, 1991'  
Lawes Agricultural Trust, p20.