Exhaustion Land Experiment Plan

 1856-1901
 Phase I

 ¬ N

 1902-1939
 Phase II
 Plot No.

Plot 10	Plot 8	Plot 6	Plot 4	Plot 2	1876-1975
W wheat					
(1856-1875)	(1856-1875)	(1856-1875)	(1856-1875)	(1856-1875)	
PKNaMg	NPKNaMg	N	Nil	Nil	
Potatoes	Potatoes	Potatoes	Potatoes	Potatoes	
(1876-1901)	(1876-1901)	(1876-1901)	(1876-1901)	(1876-1901)	
PKNaMg	N*PKNaMg	N*	FYM (N*P)	Nil (FYM)	
Cereals	Cereals	Cereals	Cereals	Cereals	
(1902-39)	(1902-39)	(1902-39)	(1902-39)	(1902-39)	
Nil	Nil	Nil	Nil	Nil	
]

Plot 9	Plot 7	Plot 5	Plot 3	Plot 1	1876-1975
W wheat					
(1856-1875)	(1856-1875)	(1856-1875)	(1856-1875)	(1856-1875)	
PKNaMg	NPKNaMg	N	Nil	Nil	
Potatoes	Potatoes	Potatoes	Potatoes	Potatoes	
(1876-1901)	(1876-1901)	(1876-1901)	(1876-1901)	(1876-1901)	
P	NPKNaMg	N	FYM (P)	Nil	
Cereals	Cereals	Cereals	Cereals	Cereals	
(1902-39)	(1902-39)	(1902-39)	(1902-39)	(1902-39)	
Nil	Nil	Nil	Nil	Nil	

(not to scale)

Annual Treatments per hectare, 1856-1901:

Nil: No fertilizer or manure

FYM: 35 of farmyard manure since 1876

Nil (FYM): FYM 1876-1881, no fertilizer or manure 1882-1901

FYM (P): FYM plus P until 1882, FYM only 1883-1901

FYM (N*P): FYM plus N* and P until 1881, FYM plus P 1882, FYM only 1883-1901

N: 96 kg N as ammonium salts (ammonium sulphate & ammonium chloride)

N*: 96 kg N as sodium nitrate

P: 34 kg P (as superphosphate 1876-96, from basic slag 1897-1901)

K: 137 kg K as potassium sulphate (91 kg K 1859-74)

Na: 16 kg Na as sodium sulphate

Mg: 11 kg Mg as magnesium sulphate

1902-1939: No fertilizer or manure applied, cereals grown most years

Previous cropping:

1852-1855 The 'Lois Weedon' plots, which tested different methods of husbandry. No fertilizer or manure applied to the whole experimental area, w wheat grown.

Sources of data:

Rothamsted (1970) "Details of the Classical and Long-Term Experiments up to 1967", Rothamsted Experimental Station, Lawes Agricultural Trust, Harpenden UK Rothamsted (1991) "Guide to the Classical Field Experiments", Rothamsted Experimental Station, Lawes Agricultural Trust, Harpenden UK

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