Highfield Ley-arable (R/RN/1) treatment codes summary

1949-1961	1962 ¹ -1990	1991-2008	2009-	Rotation type	
G ²	Gn	Gc	Gc	Permanent grass	
	Gc	GC	GC		
R	Rn		Became		
		Rc	R/CS/767 in	Reseeded grass	
	Rc		2009		
	Rpn		Became		
		Rpc	R/CS/767 in	Reseeded grass	
	Rpc		2009		
Cg	Ln	Lc(Ln)	F	Ley-arable /Fallow	
L	Lc	Lc(Lc)	Lc(Lc)	Ley-arable	
Lu	Lu	Lc(Lu)	Al	Ley-arable /arable	
			Became		
Α	Α	Α	R/CS/767 in	Arable	
			2009		

¹ New rotations phased in between 1962 and 1967 at the end of the three year test cycles.

1949 - 1961

G Permanent grass/clover from before the start of the experiment, left unchanged, grazed by sheep R Reseeded grass: reseeded at the start of experiment, grass/clover, left unchanged, grazed by sheep

Cg Three year cut grass/clover ley followed by three arable test crops
L Three year grazed grass/clover ley followed by three arable test crops
Lu Three year lucerne ley cut for hay followed by three arable test crops

Three year arable treatment crops (hay, potatoes, barley, 1949-54, hay, potatoes, oats, 1955-60)

followed by three arable test crops

1962- 1990 From 1968 onwards blocks 5-12 were turned over to continuous wheat to study soil-borne disease.

The ley-arable experiment continued with blocks 1-4 only.

Gn Permanent grass/clover (G) split into Gn and Gc in 1962. Grass with nitrogen, cut for silage.
Gc Permanent grass/clover (G) split into Gc and Gn in 1962. Grass/clover, cut for silage

Rn Reseeded grass (R) split into Rn and Rc in 1963. Grass with nitrogen, cut for silage (blocks 1 and 4)
Rc Reseeded grass (R) split into Rn and Rc in 1963. Grass/clover, cut for silage (blocks 1 and 4)

Rpn Reseeded grass ploughed in 1963, kept in arable rotation until 1973 when resown to grass plus nitrogen. Cut for silage(blocks 2 and 3)

Rpc Reseeded grass ploughed in 1963, kept in arable rotation until 1973 when resown to grass/clover. Cut for silage (blocks 2 and 3)

Ln Three year all-grass ley with nitrogen cut for silage, followed by three arable test crops

Lc Three year grass/clover ley cut for silage, followed by three arable test crops

Lu Three year lucerne ley cut for hay, followed by three arable test crops

A Three year arable treatment crops (hay, sugar beet, oats), followed by three arable test crops

1991 - 2008

Gc Permanent grass/clover from before the start of the experiment, cut for silage Rc Grass/clover reseeded at start of experiment, cut for silage (blocks 1 and 4)

Rpc Grass/clover reseeded at start of experiment, ploughed in 1963, arable until 1973 when resown, cut for silage (blocks 2 and 3)

Lc(Ln) Three year grass/clover ley cut for silage, followed by three arable test crops, previously Ln

Lc(Lc) Three year grass/clover ley cut for silage, followed by three arable test crops

Lc(Lu) Three year grass/clover ley cut for silage, followed by three arable test crops, previously Lu
A Three arable treatment crops (wheat, fallow, oats), followed by three arable test crops

2009 -

Gc Permanent grass/clover from before the start of the experiment, cut for silage

Permanent fallow (no crop) since autumn 2008. Previously Lc(Ln)

Lc(Lc) Three year grass/clover ley cut for silage, followed by three arable test crops

Three arable treatment crops (wheat, fallow, oats), followed by three arable test crops, previously Lc(Lu)

R/CS/767 Plots converted to Highfield Conversion Experiment, R/CS/767.

For more information see https://www.era.rothamsted.ac.uk/experiment/rcs767

Highfield Ley-arable (R/RN/1) Test crop summary

Three years of Test crops grown after three years of Treatment crops in the arable and ley-arable rotations:

	1949-1967 ¹	1968-1974	1975-1982	1983 ² -2008	2009-
1st Test crop	W Wheat	Potatoes	Potatoes	W Wheat	W Wheat
2nd Test crop	Potatoes	W Wheat	W Wheat	W Wheat	W Wheat
3rd Test crop	S Barley	S Barley	W Wheat	W Wheat	W Wheat

¹ The original sequence, if started before 1968, was completed.

² In 1963 one pair of permanent grass plots was mistakenly ploughed and sown with wheat in 1964 before being returned to permanent grass in 1965. This is shown as [G], and was not divided for Gc v Gn treatments.

² From 1983 the test crops were all W Wheat (except W Barley 2003-2005). No yields were taken after 1990