

Fosters Ley-arable (R/RN/2) treatment codes summary

1949-1961	1962 <sup>1</sup> -1990	1991-2008	2009-	Rotation type
R	Rn	Rc	Rc	Reseeded grass
	Rc			
	Rpn	Rpc	Rpc	Reseeded grass
	Rpc			
Cg	Ln	Lc(Ln)	F	Ley-arable/fallow
L	Lc	Lc(Lc)	Lc(Lc)	Ley-arable
Lu	Lu	Lc(Lu)	Lc(Lu)	Ley-arable
A	A	A	A	Arable

<sup>1</sup>New rotations phased in between 1962 and 1967, at the end of the three year test cycles.

1949 - 1961

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
A	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.

Rn	Reseeded grass (R) split into Rn and Rc in 1963. Grass with nitrogen, cut for silage (blocks 1 and 3)
Rc	Reseeded grass (R) split into Rn and Rc in 1963. Grass/clover, cut for silage (blocks 1 and 3)
Rpn	Reseeded grass ploughed in 1963, kept in arable rotation until 1973 when resown to grass plus nitrogen. Cut for silage (blocks 2 and 4)
Rpc	Reseeded grass ploughed in 1963, kept in arable rotation until 1973 when resown to grass/clover. Cut for silage (blocks 2 and 4)
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

Rc	Grass/clover reseeded at start of experiment, cut for silage (blocks 1 and 3)
Rpc	Grass/clover reseeded at start of experiment, ploughed in 1963, arable until 1973 when resown, cut for silage (blocks 2 and 4)
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 -

Rc	Reseeded grass/clover from before the start of the experiment, cut for silage
Rpc	Grass/clover reseeded at start of experiment, ploughed in 1963, arable until 1973 when resown, cut for silage
F	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
A	Three arable treatment crops (wheat, fallow, oats), followed by three arable test crops
Lc(Lu)	Three year grass/clover ley cut for silage, followed by three arable test crops, previously Lu

Fosters Ley-arable (R/RN/2) Test crop summary

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

	1949-1967 <sup>1</sup>	1968-1974	1975-1982	1983 <sup>2</sup> -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

<sup>1</sup> The original sequence, if started before 1968, was completed.

<sup>2</sup> From 1983 the test crops were all W Wheat (except W Barley 2003-2005).

No yields were taken after 1990

Data from Yield Books and Field Plans

