

Table 7. N-input and N-absorption in crop rotation

Site						Hollow										
Years		2010/2011/2012				2011/2012/2013					2012/2013					
		N kg ha ⁻¹				N kg ha ⁻¹					N kg ha ⁻¹					
		Input		Uptake		Balance	N-Input		N-Uptake		NB	Input		Uptake		Balance
		LGS	Oat	WW	WR		LGS	Oat	WW	WR		LGS	Oat	WW		
Sp	259			83.8	83.7	0.32	267		65.4	52.0	0.24	206		55.4 ^a		0.27
ESr	191			59.5	78.2	0.31	184		°	66.0		145		53.2 ^a		0.37
CCp	180			71.2	80.3	0.40	211		60.3	54.4	0.29	146		54.6 ^a		0.37
Op			105.8 ^a		74.6			100.4		66.6			73.2 ^a	43.4 ^a		
Or			56.2 ^b		76.2			83.0		54.4			31.7 ^b	18.8 ^b		

Site						Hill										
Years		2010/2011/2012				2011/2012/2013					2012/2013					
		N kg ha ⁻¹				N kg ha ⁻¹					N kg ha ⁻¹					
		Input		Uptake		Balance	Input		Uptake		Balance	Input		Uptake		Balance
		LGS	Oat	WW	WR		LGS	Oat	WW	WR		LGS	Oat	WW		
Sp	352			87.4 ^a	69.2	0.25	222		52.9 ^a	47.9	0.24	149		45.1 ^{ab}		0.30
ESr	265			54.2 ^{bc}	65.0	0.20	228		°	37.6		156		46.0 ^{ab}		0.29
CCp	278			77.8 ^{ab}	60.2	0.28	226		52.3 ^a	55.5	0.23	145		51.3 ^a		0.35
Op			79.0 ^a	53.8 ^{bc}	49.5			66.2	24.8 ^b	29.7			69.8 ^a	37.6 ^b		
Or			59.0 ^b	29.1 ^c	57.5			78.0	20.6 ^b	38.5			39.1 ^b	20.6 ^c		

Sp: Standard practice (plough); ESr: Early sowing of winter wheat (ring cutter); CCp: Winter wheat following catch crop (plough)

Op: Winter wheat following oat (plough) and Or: Winter wheat following oat (ring cutter)

Different letters indicate significant differences at P≤0.05