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Appendix S4. Details of the studies reporting the impacts of increases of N supply on ecosystem K cycle.

Site and species	Study type	Effects	Reference
England, shrubland	Field N	Increased K soil leaching	Alfaro et al. (2004)
	fertilization		
Scotland, Calluna	Field N	Increased foliar N:K ratios	Britton <i>et al.</i> (2008)
vulgaris shrubland	fertilization		
Italy, Sphagnum	Field N	Increased K limitation	Gerdol <i>et al</i> . (2007)
	fertilization	· · · · · ·	
Canada, Acer	Field N	Increased K limitation	Gradowski & Thomas
saccharum	fertilization	Den 1 1 1 K	(2008)
Metadata analysis of IN	Field N fortilization	Decreased soil K concentration	Lucas <i>et al.</i> (2011)
experiments $(n-107)$	Tertifization	and increased K leaching	
under field conditions			
Canada Acer	Field N	Decreased foliar K	Moore & Houle (2009)
saccharum	fertilization	concentration	100010 & 110010 (2003)
Spain, semiarid	Field N	Decreased soil K concentration	Ochoa-Hueso et al.
shrubland	fertilization		(2013)
Switzerland.	Field N	Increased K limitation	Siegenthaler <i>et al</i> .
Eriophorum vaginatum	fertilization		(2013)
Picea glauca	Field N	Decreased foliar K	Van Den Driessche &
0	fertilization	concentration	Ponsford (1995)
Romania, forest	Field	Decreased soil K concentration	Badea et al. (2012)
ecosystem	observation		
Norway, diverse forests	Field	Decreased soil K concentration	Bjornstad (1991)
and grasslands	observation		•
Netherlands, Pinus	Field	Increased K soil leaching	Boxman & Roefols
sylvestris forest	observation and		(2006)
	field N		
	fertilization		
Various sites in Europe,	Field	Increased K limitation and	Bragazza et al. (2004)
Sphagnum	observation	foliar N:K ratios	
Wales, Picea sitchesis	Field	Increased K limitation	Harrison <i>et al.</i> (1995)
XY Y Y	observation	T 1771 1	
Various sites in	Field	Increased K limitation	Hoosbeek et al. (2002)
nortnern Europe,	observation field		
sphagnum and diverse	N letunzation		
China various forests	Field	Decreased soil K concentration	Huang at al. (2012)
Clillia, various forests	observation	Decreased son K concentration	fluang <i>et al</i> . (2012)
Central-eastern Europe	Field	Increased foliar N·K ratios	Jirousek <i>et al.</i> (2011)
Snhagnum	observation	mercused fondi TV.IX fattos	511003eK <i>et al</i> . (2011)
France Picea abies	Field	Decreased soil K concentration	Ionard <i>et al.</i> (2012)
	observation		vonura <i>er un</i> . (2012)
Sweden, various forest	Field	Decreased soil K concentration	Larsson et al. (1995)
stands	observation		
France, forests	Field	Decreased soil K concentration	Lévy et al. (1996)
	observation		
Wales, Picea sitchesis	Field	Increased K soil leaching	Reynolds et al. (2000)
	observation	_	
United Kingdom,	Field	Plants increased K uptake	Rowe <i>et al.</i> (2008)
Calluna vulgaris	observation		
Sweden, 42 stands of	Field	Increased foliar N:K ratios	Thelin et al. (1998)
Picea abies	observation		
Bulgaria, Pinus	Field	Decreased K concentration in	Tzvetkova &
sylvestris	observation	leaves	Hadjiivanova (2006)

China, various	Field	Increased K soil leaching	Vogt et al. (2006)
ecosystems	observation		
Poland, forest	Field	Increased K soil leaching	Walna et al. (2000)
ecosystem	observation		
Metadata analysis of	Field	Increased K soil leaching	Watmough et al. (2005)
observational	observation		_
experiments (n=17)			
under field conditions			