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Appendix S3. Details of the field studies reporting the effects of various levels of water availability on ecosystemic K cycles across natural gradients or from climatic manipulation.

Site, community, species	Study type	Main results (drought effects)	References
Denmark, Zea mays cropland	Water availability manipulation	Decreases in plant K concentration	Bahrun et al. (2002)
China, Zea mays cropland	Water availability manipulation	Decreases in plant K uptake	Ge et al. (2012)
Iran, Beta vulgaris cropland	Water availability manipulation	No changes in plant K concentrations	Mahmoodi et al. (2008)
Czech Republic, <i>Picea abies</i> forest	Water availability manipulation	Decreases in foliar K concentrations	Grabarova & Martinkova (2001)
Tennessee, deciduous forest, soil	Water availability manipulation	Decreases in soil exchangeable K	Johnson et al. (2008)
Catalonia, Mediterranean shrubland, <i>Erica multiflora</i>	Water availability manipulation	Higher foliar K concentrations in summer	Rivas-Ubach et al. (2012)
Catalonia, Mediterranean forest, <i>Quercus ilex</i>	Water availability manipulation	Higher foliar K concentrations in summer	Rivas-Ubach et al. (2014)
Catalonia, Mediterranean shrubland, Erica multiflora and Globularia alypum	Water availability manipulation	Decreases in foliar K concentrations	Sardans et al. (2008)
Catalonia, Mediterranean forest, Quercus ilex, Phillyrea latifolia, Arbutus unedo	Water availability manipulation	No effects on K contents and concentrations in plants Increases of total soil K concentration Decreases of soluble K concentrations	Sardans & Peñuelas (2007)
Catalonia, Mediterranean forest, <i>Hypnum cupresiforme</i>	Water availability manipulation	Drought increased K concentration	Sardans & Peñuelas (2008)
Tibet, alpine wetland	Natural gradient	Soil moisture was negatively related with soil K availability	Wu et al. (2013)
New Hampshire, deciduous forest	Field observation	Reduction of the losses of K by leaching	Likens et al. (1994)