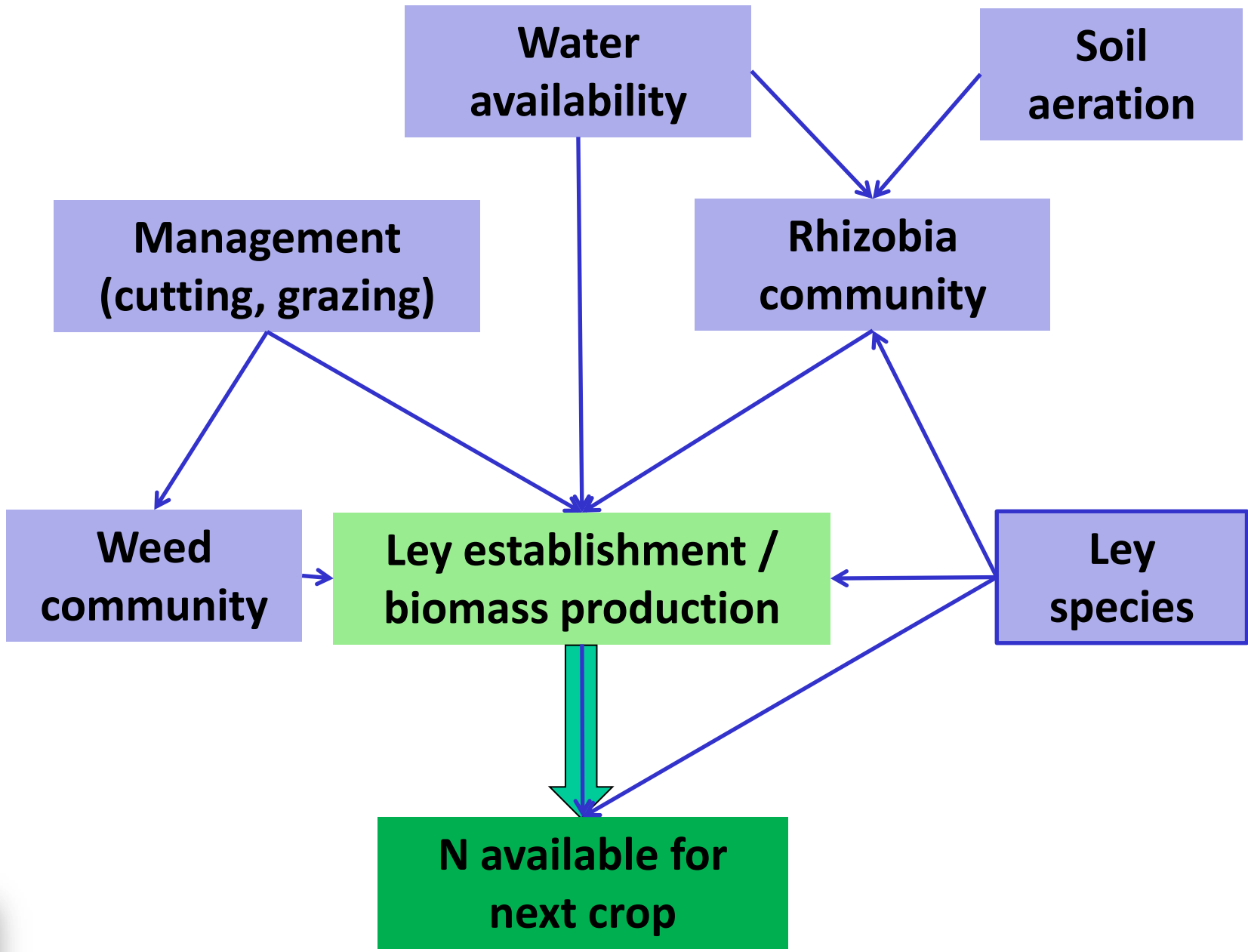


# Nitrogen supply characteristics of ley and green manure species

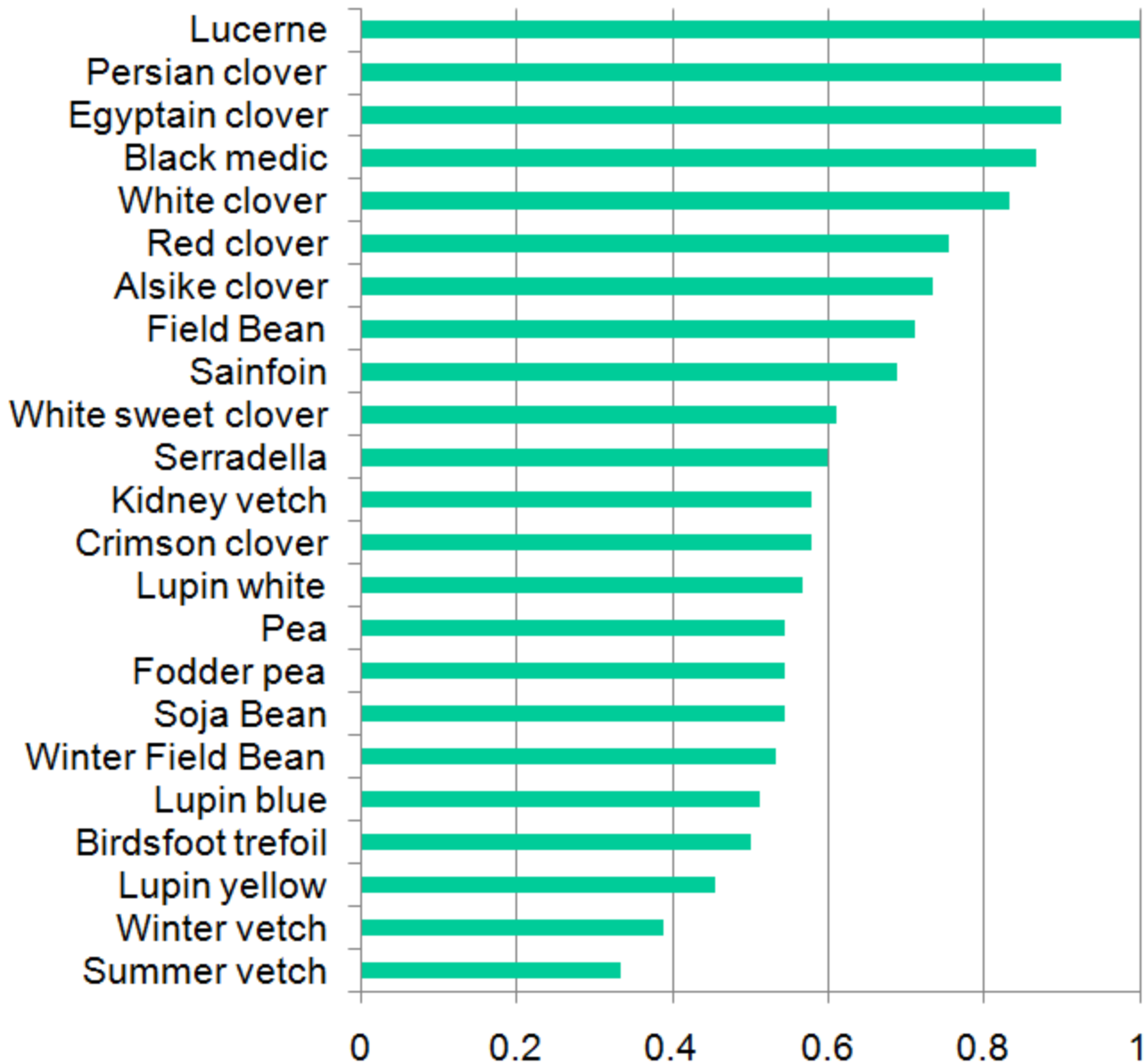
Thomas Döring,  
Organic Research Centre  
Producer Conference 2011

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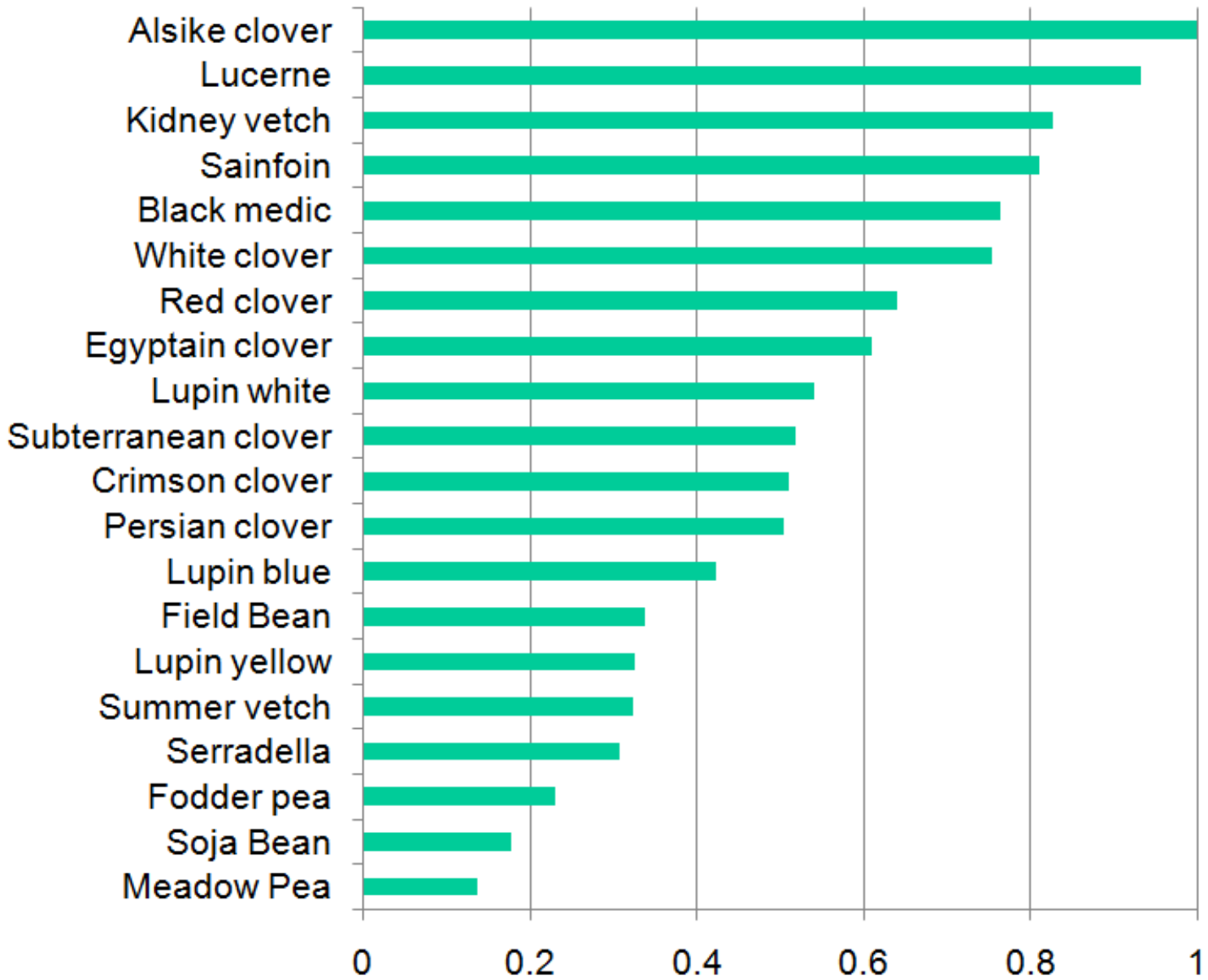




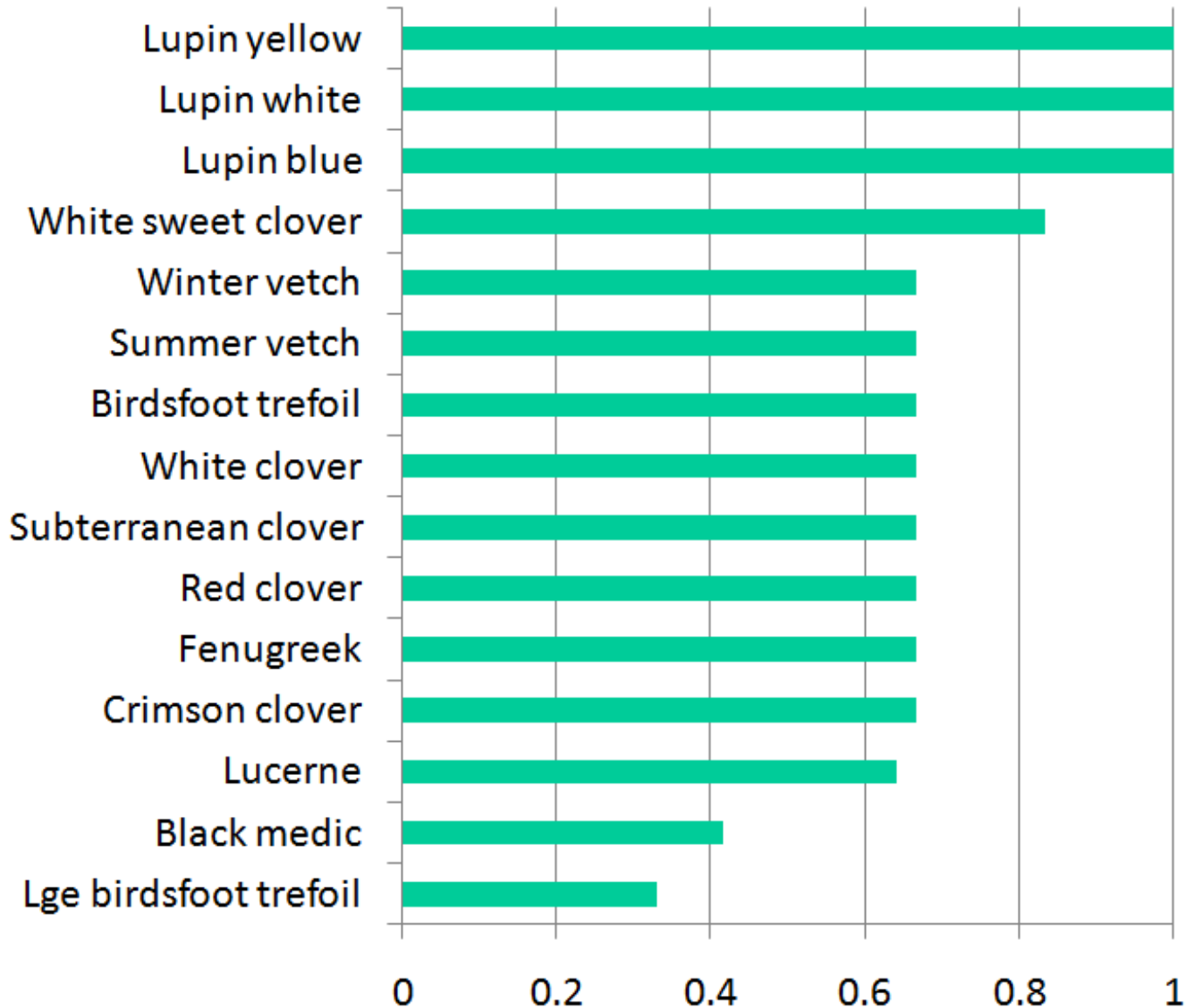
### N in plant residues (normalized)



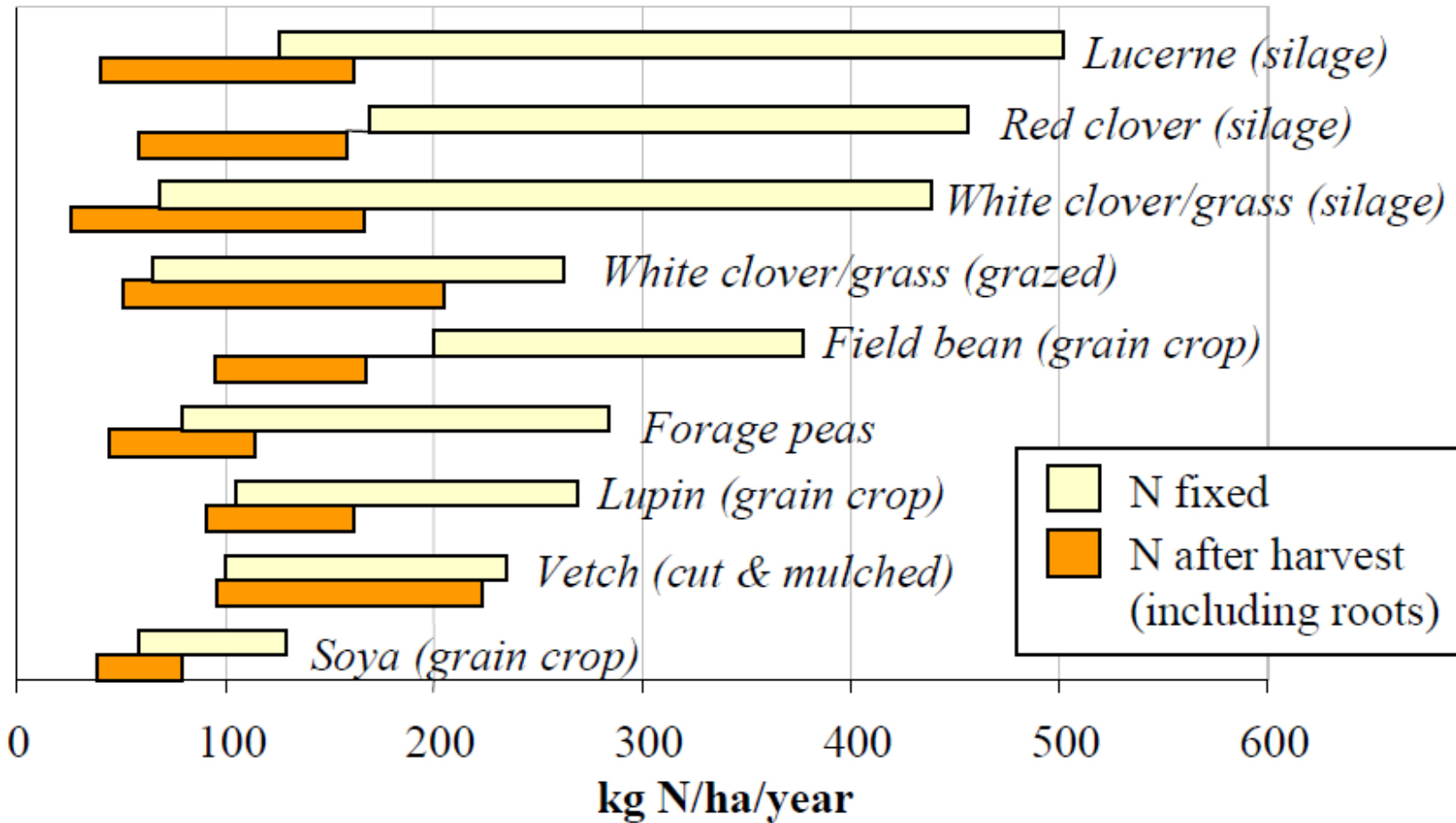
### N effect to next crop



### N fix ability (French data)



# N fixed and N after harvest



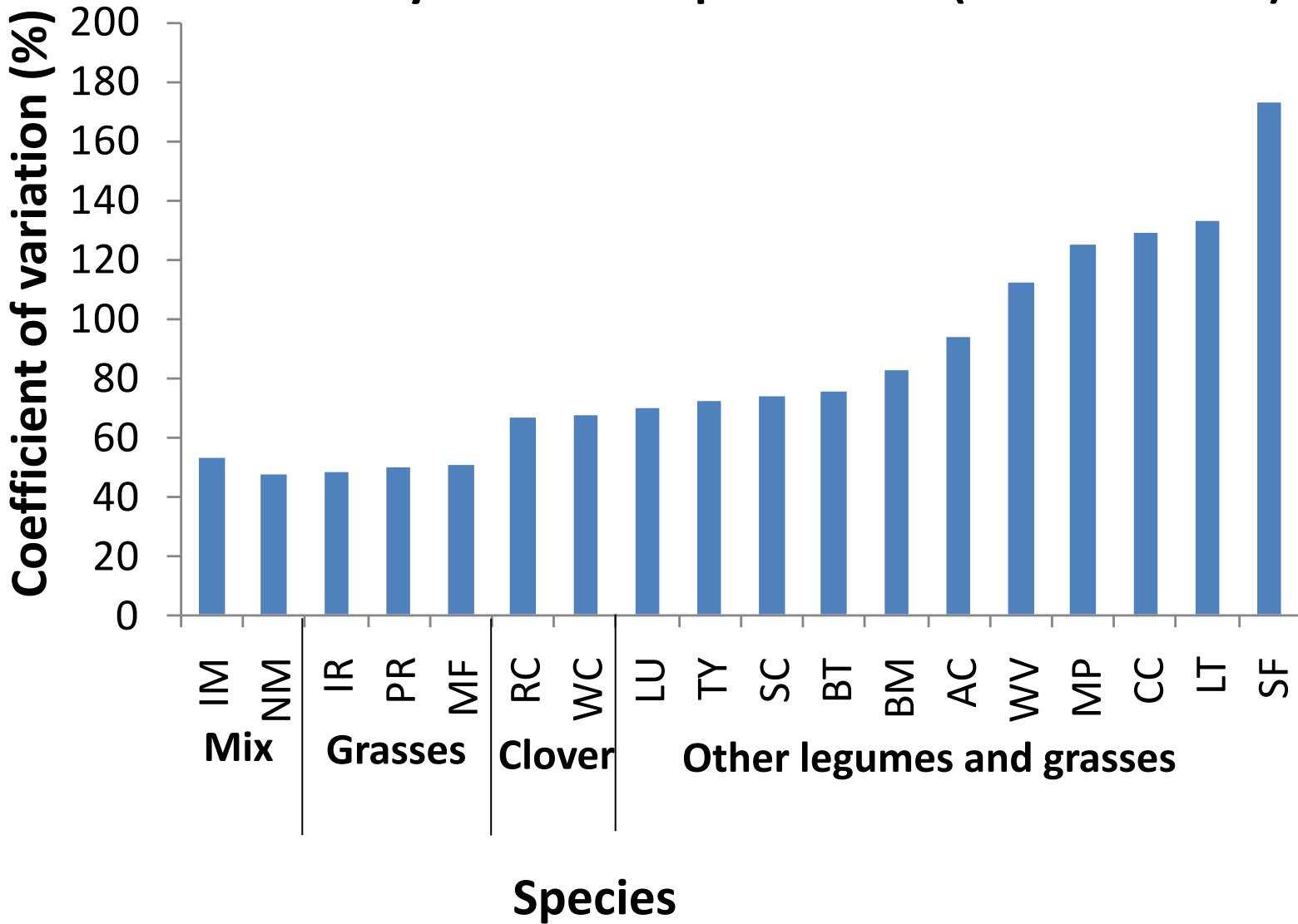
# Legume LINK: Six research hubs

- 4 grass species as monocultures
- 12 legume species as monocultures
- ASM (All Species Mixture) inoculated
- ASM (All Species Mixture) non- inoculated





## Variability of biomass production (summer 2009)





# Conclusions

- Choose ley species carefully.
- Do not rely on a single species.
- Species choice is not everything.





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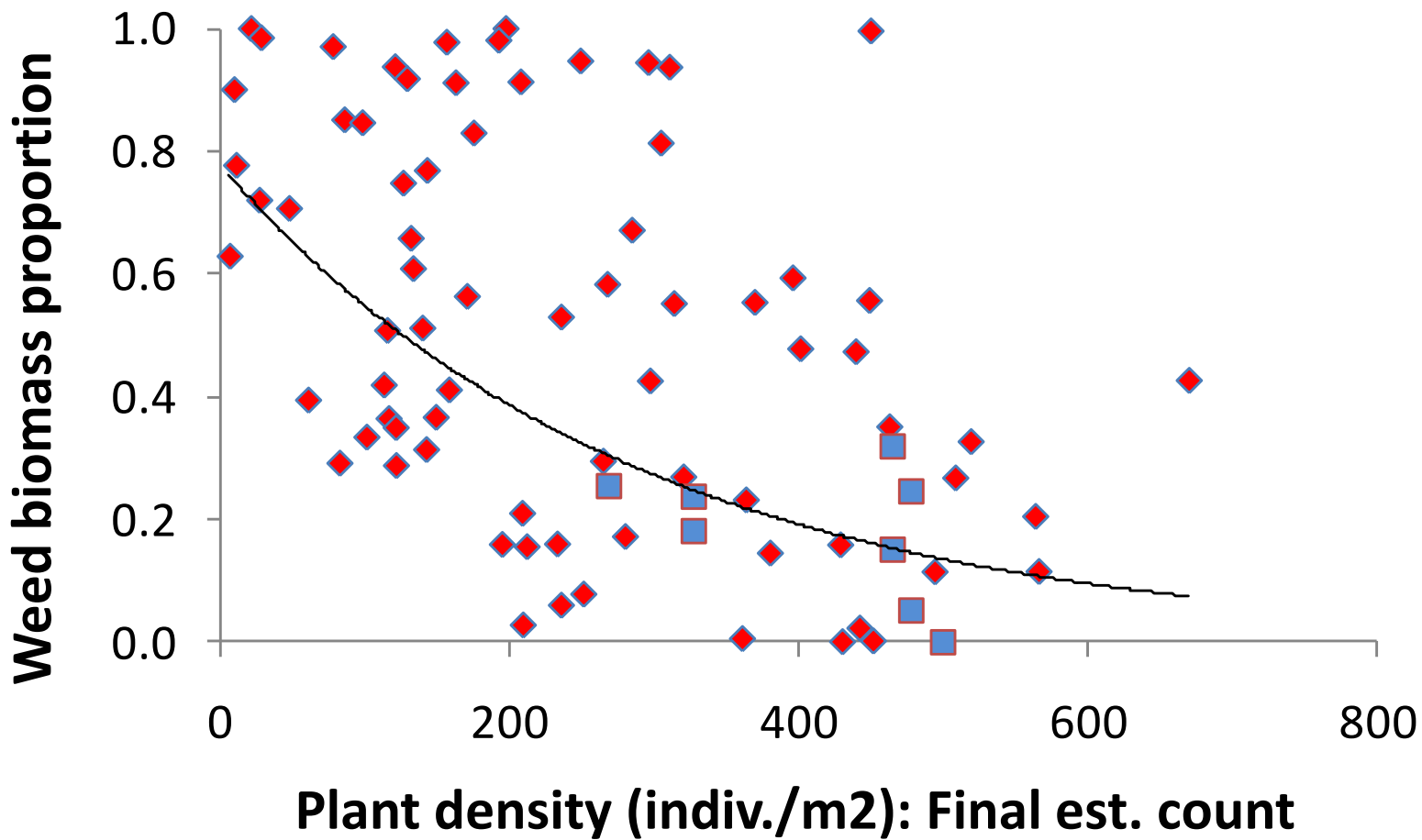
**Thank you for your attention!**

**Any questions?**

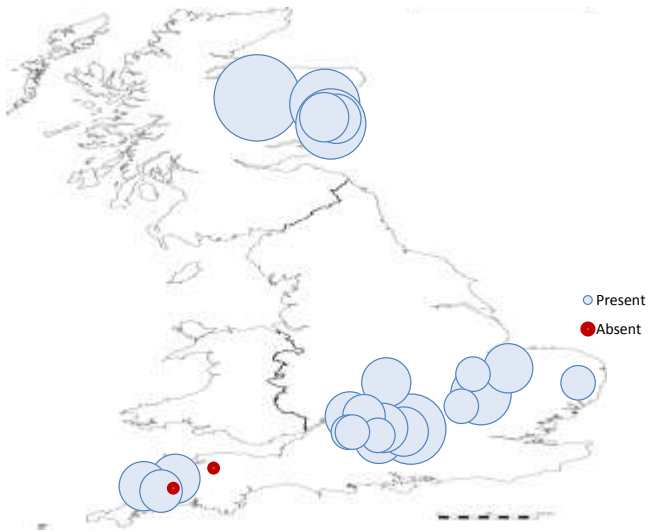


## Re-growth league table

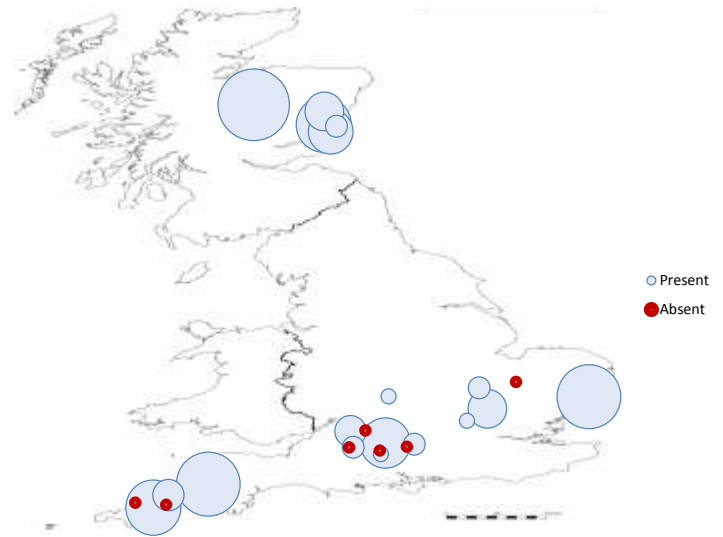
Species	Elm Farm	Rothamsted	Wakelyns	SAC
Alsike clover	++	++	+	++
Lucerne	++	++	++	+
Red clover	++	+	++	+
White clover	+	++	+	++
B'foot trefoil	++	++	+	-
Black medic	-	+	++	++
Timothy	-	--	++	+
Winter vetch	+	-	-	+
Crimson clover	--	-	-	+
Large B'foot trefoil	--	-	--	++
Perennial ryegrass	-	-	+	--
Sainfoin	+	+	--	--
Sweet white clover	-	--	-	-
Italian ryegrass	--	--	-	-
Meadow fescue	--	+	--	--
Meadow pea	-	--	--	--



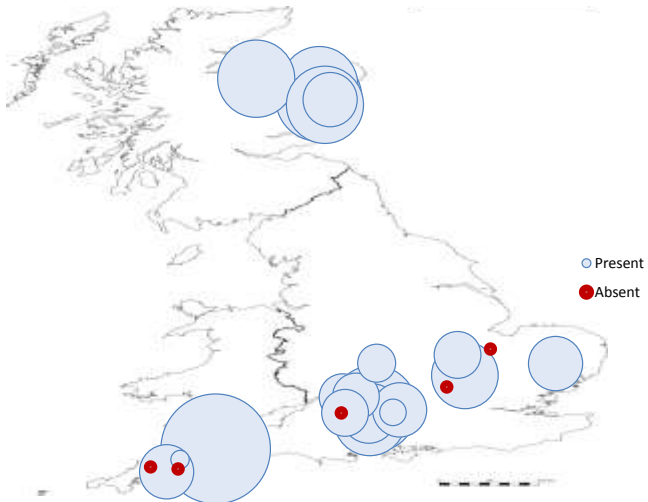
## Crimson Clover



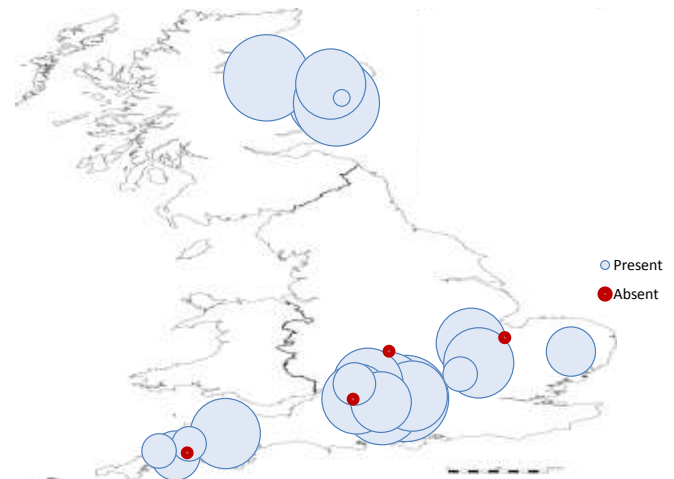
## Alsike Clover



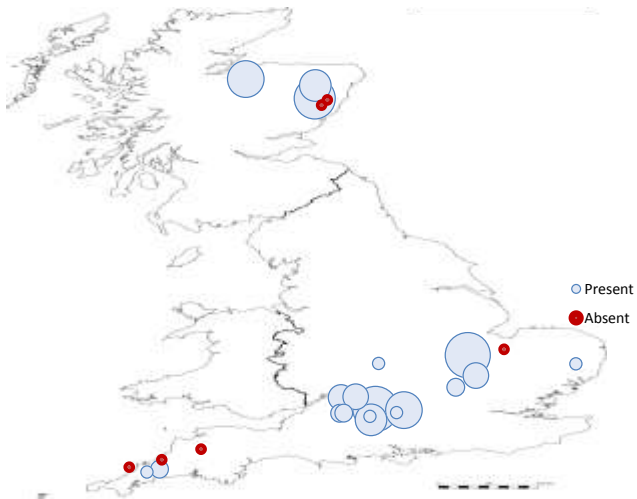
## White Clover



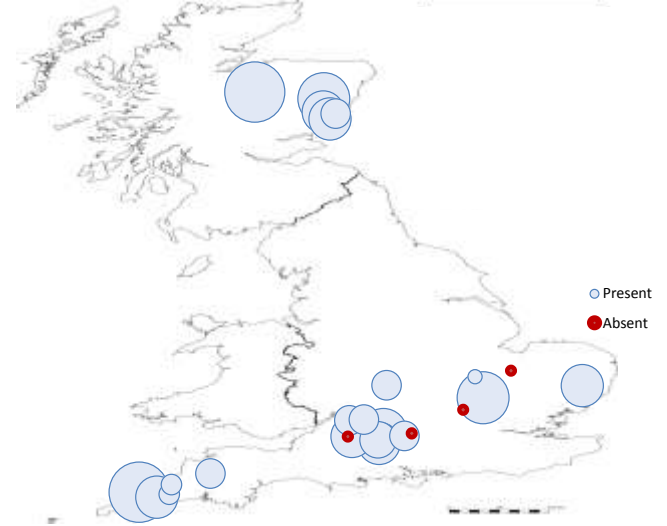
## Red Clover



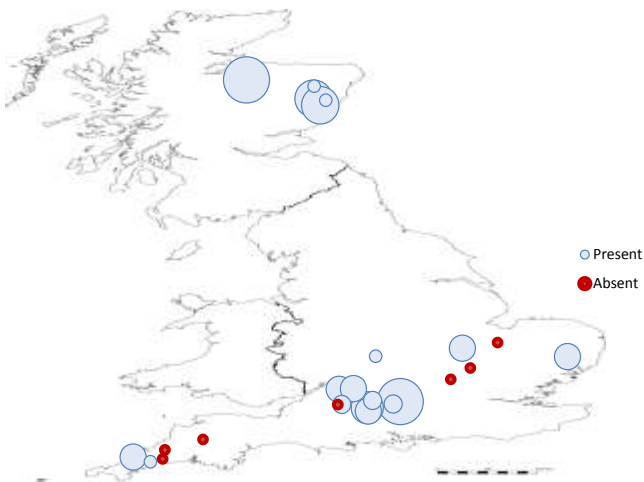
### Sainfoin



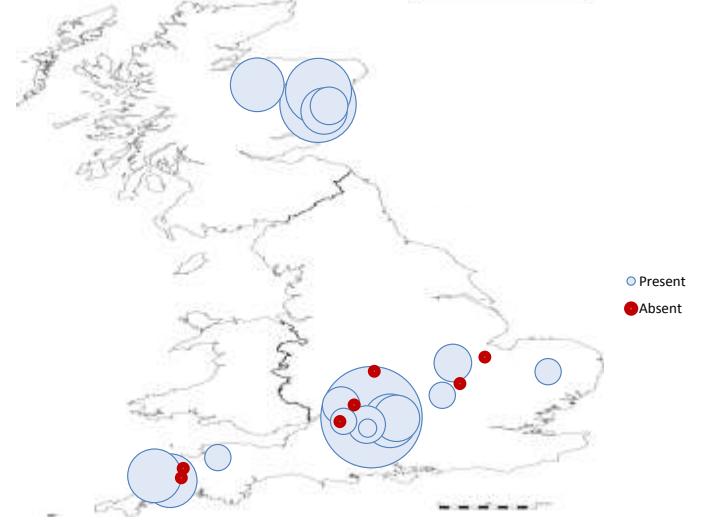
### Birdsfoot trefoil



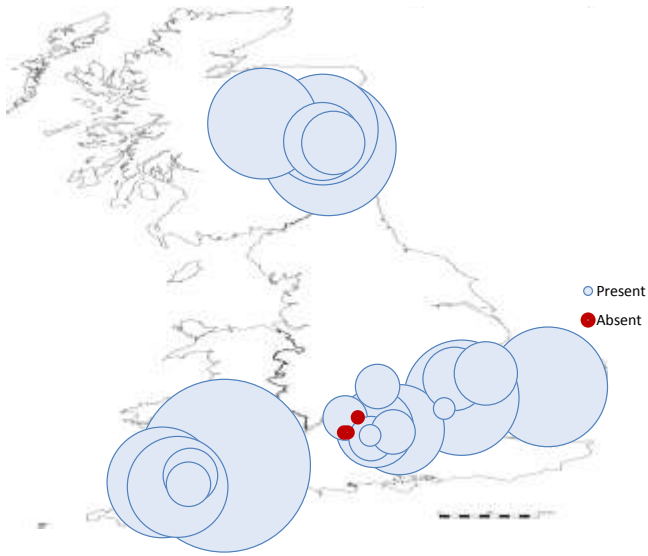
### Large birdsfoot trefoil



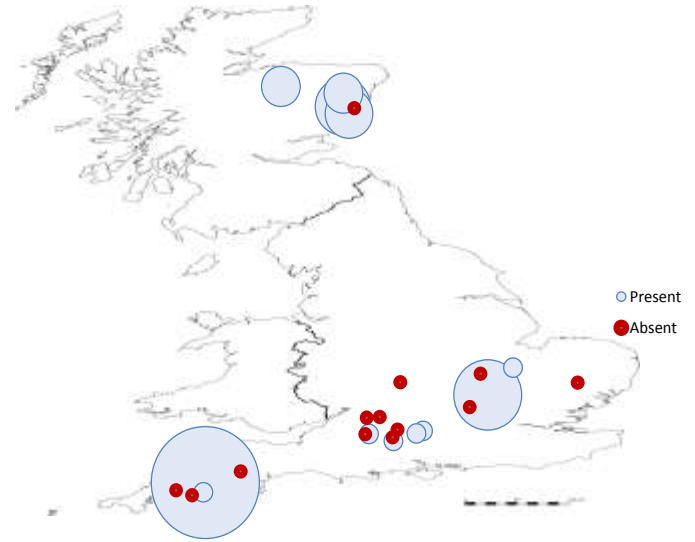
### Black medic



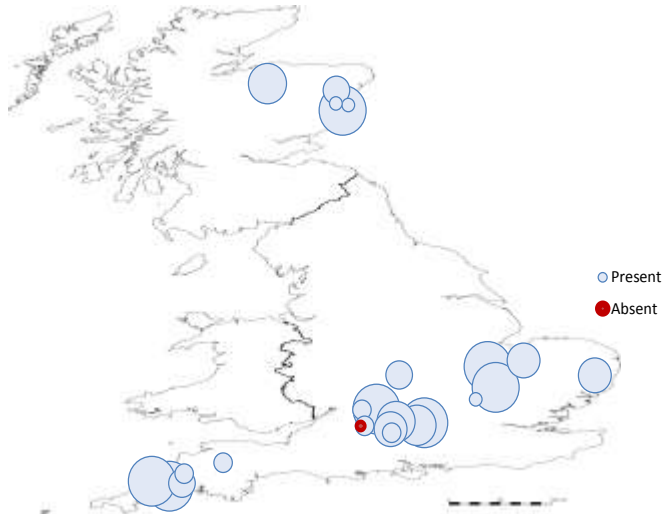
### Grasses



### Meadow pea



### Lucerne



### Lucerne with sowing dates

