

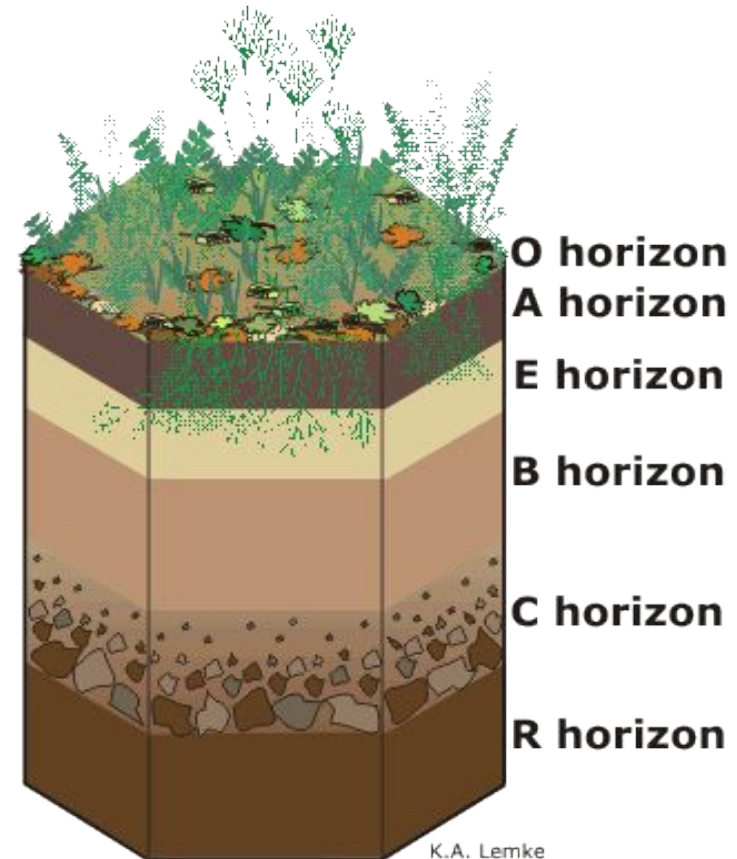
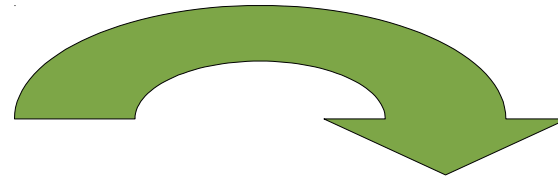
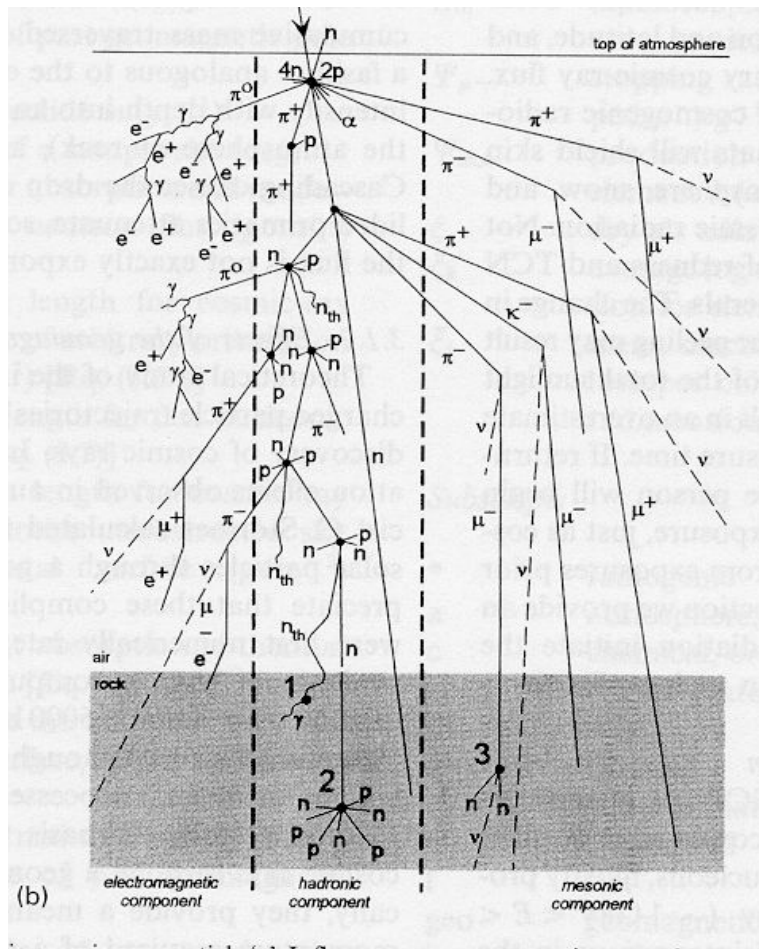
Do Fungi Transport ^{10}Be During Wood Degradation?

Grace Conyers
Purdue University

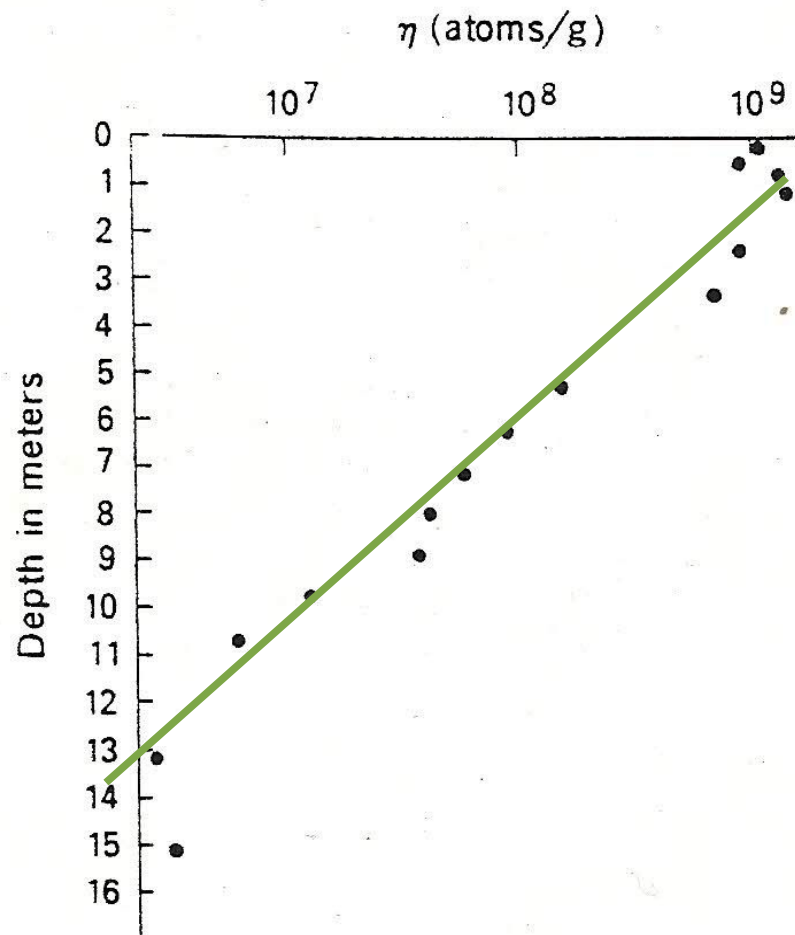
Forecast

- (1) The role of meteoric ^{10}Be in soil erosion
- (2) $[^{10}\text{Be}]$ in decayed organic materials & the questions it raises.

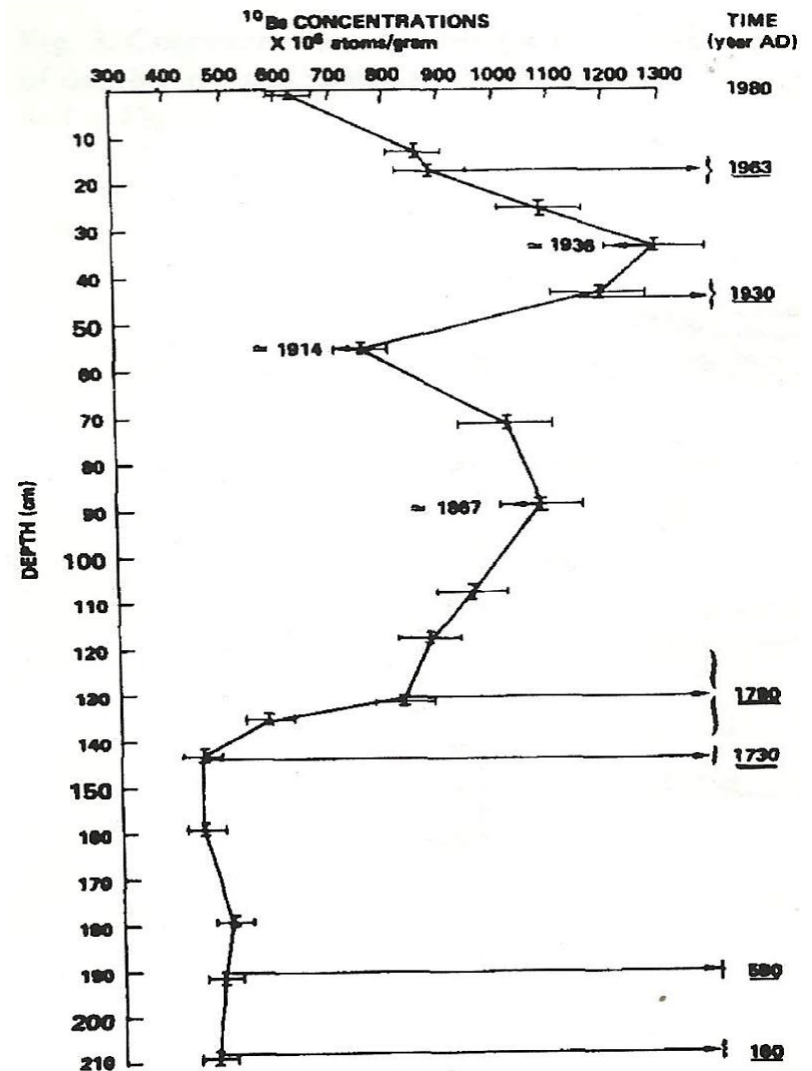
Background & Motivation



Background & Motivation



From Pavich, 1985



From Valette-Silver (1986)

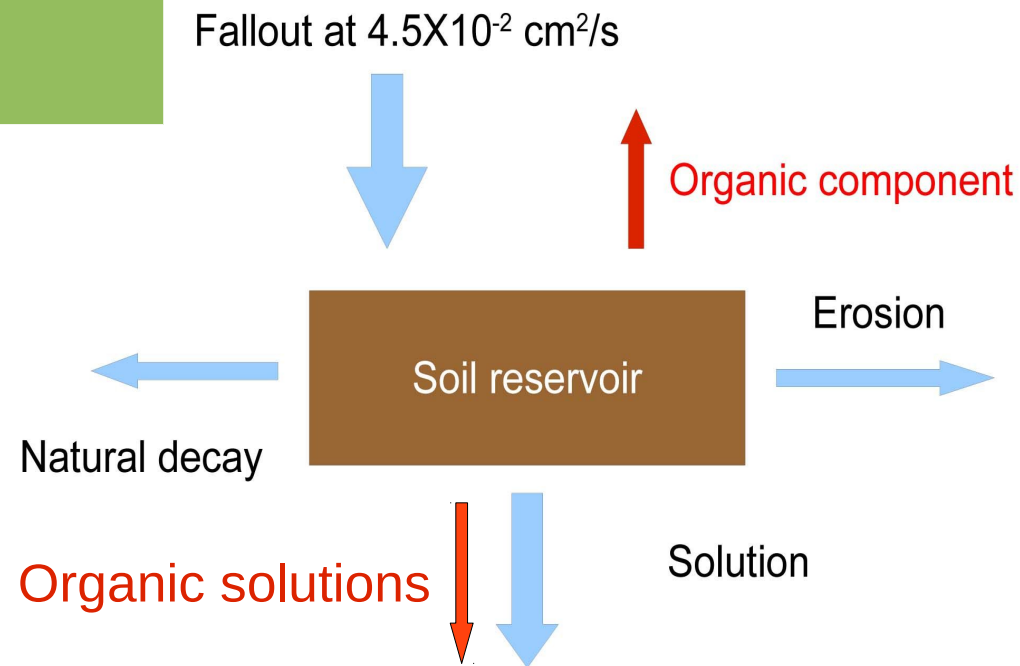
Background & Motivation

Substance

^{10}Be

Rain	2×10^4
Soils	$2 \times 10^7 - 2 \times 10^9$
Hardwood	5×10^6
Organics in sediment	2×10^{10}

Reproduced from Brown 1984



Samples & Methods



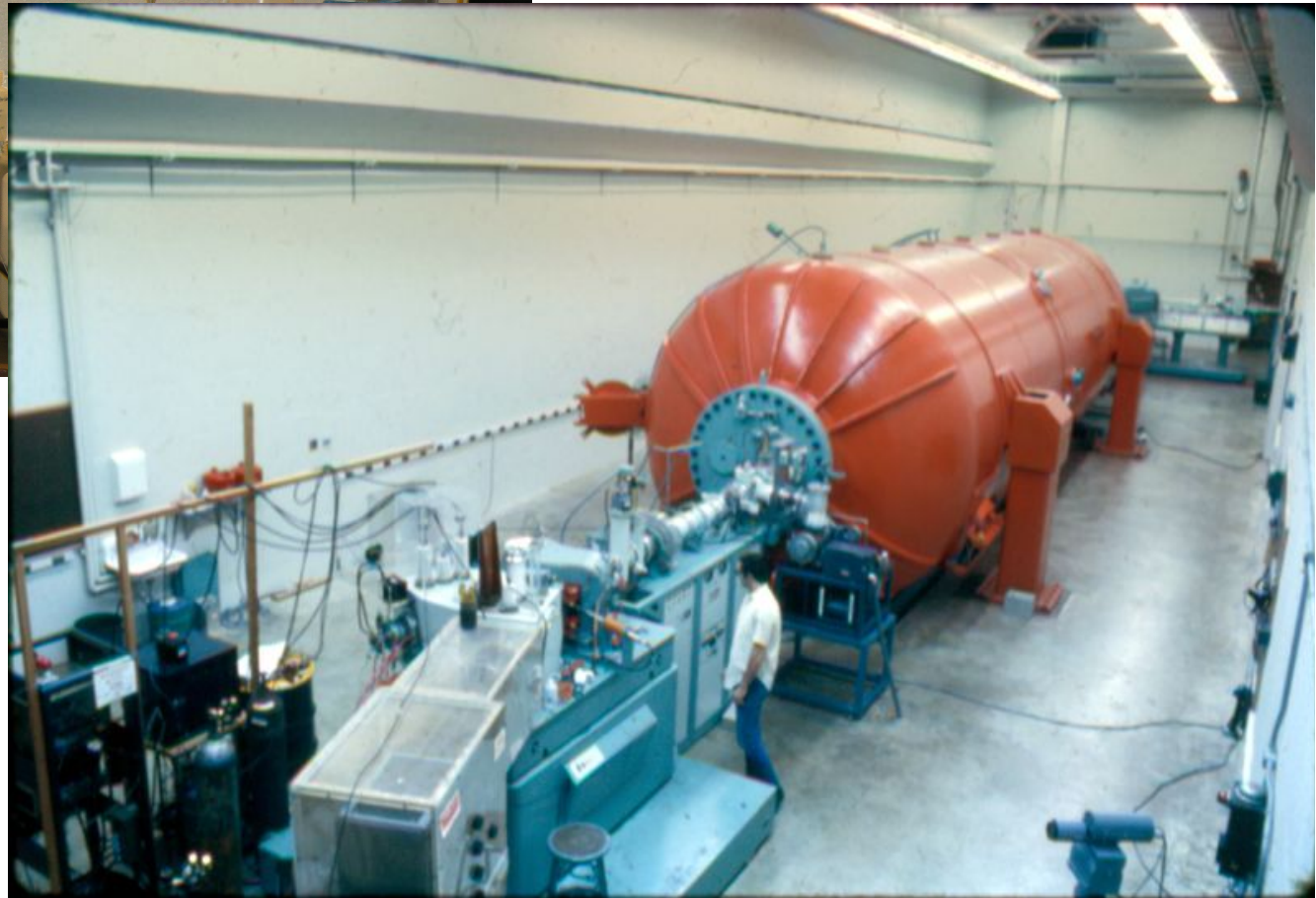
G. Tsugae on hemlock

Acorn

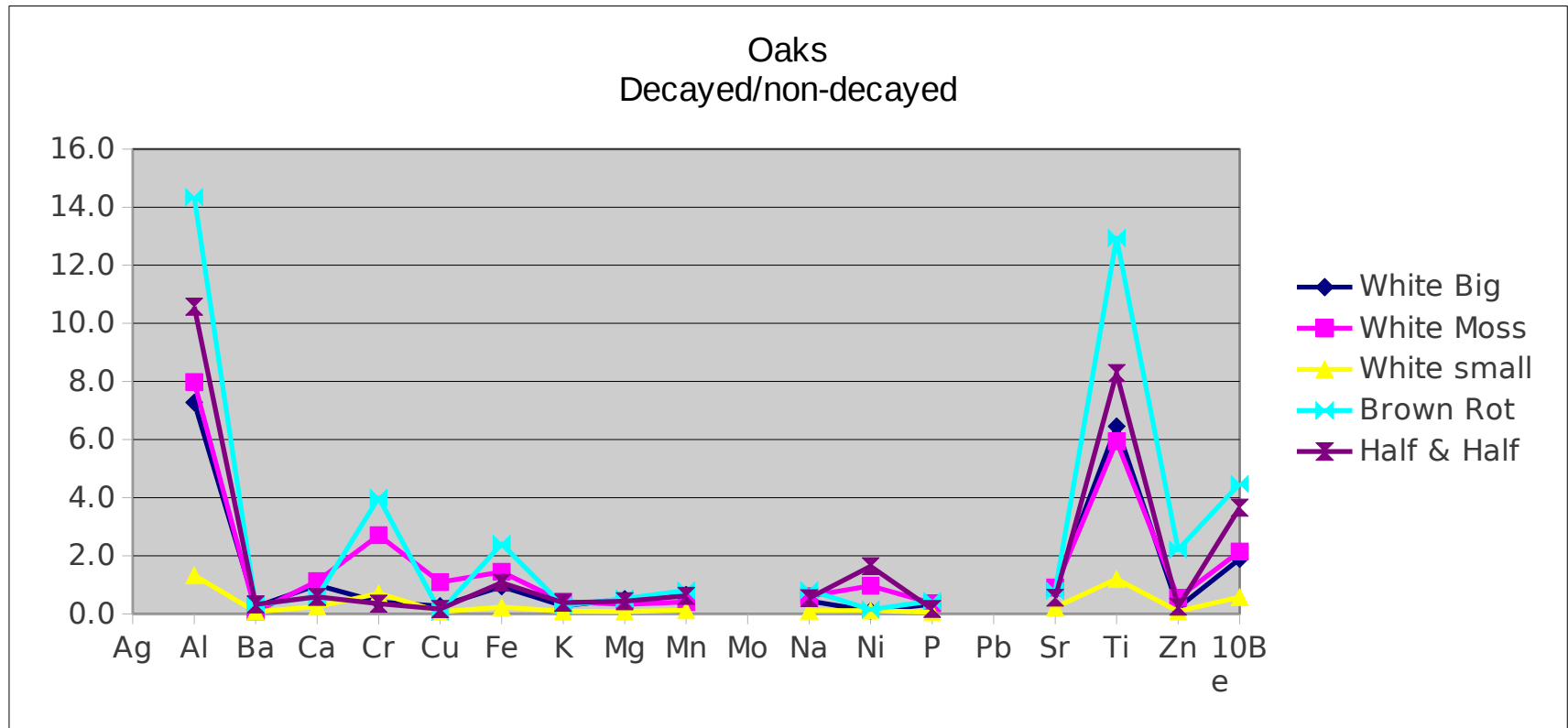


Hickory nuts

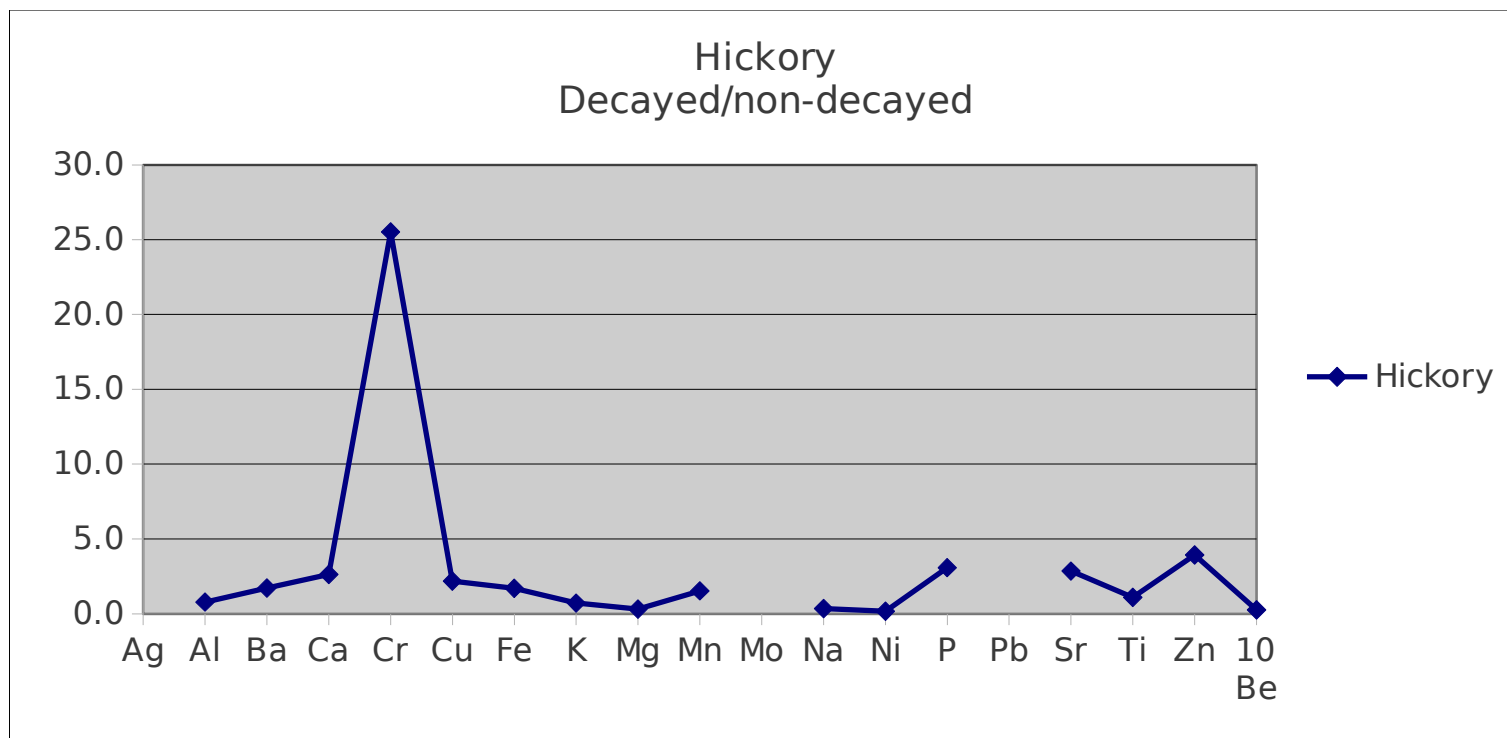
Methods



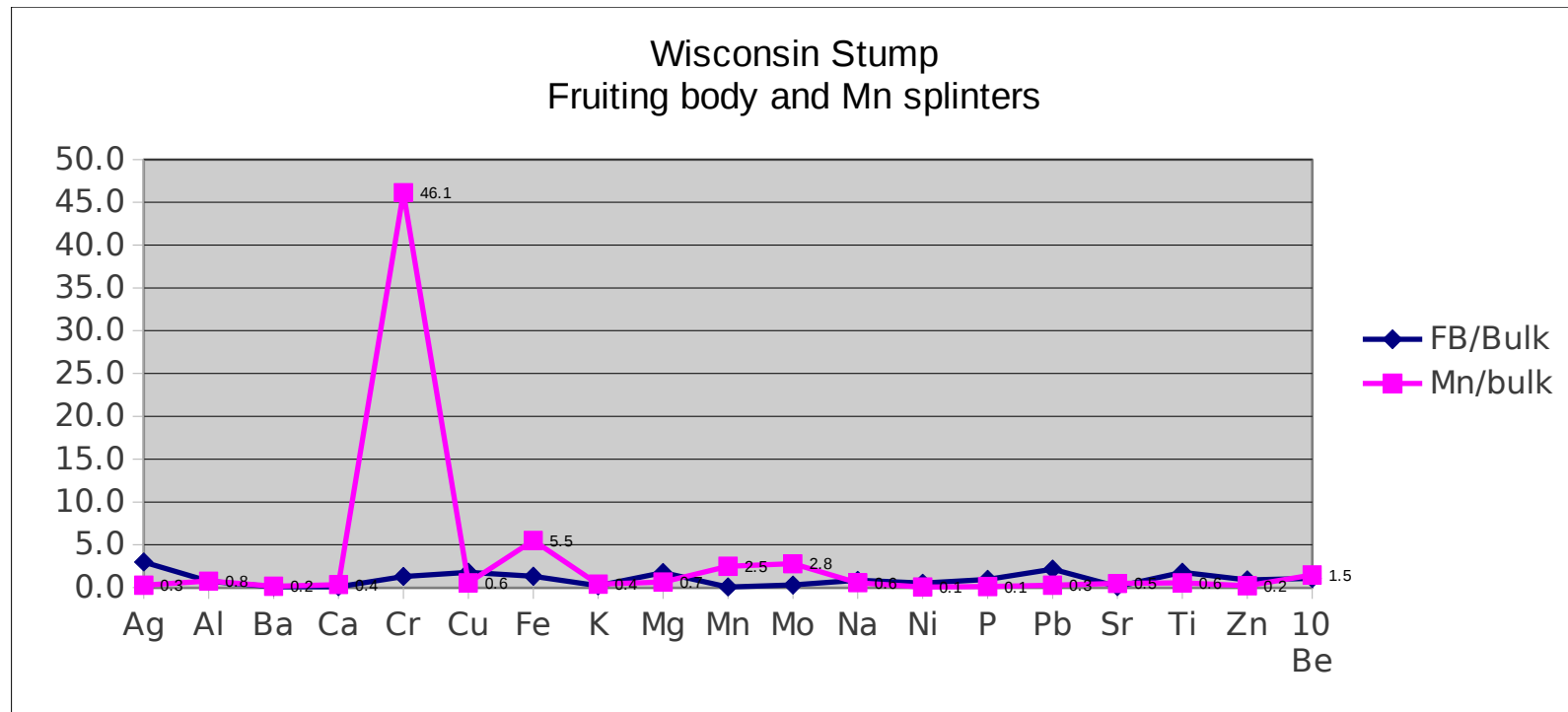
Results



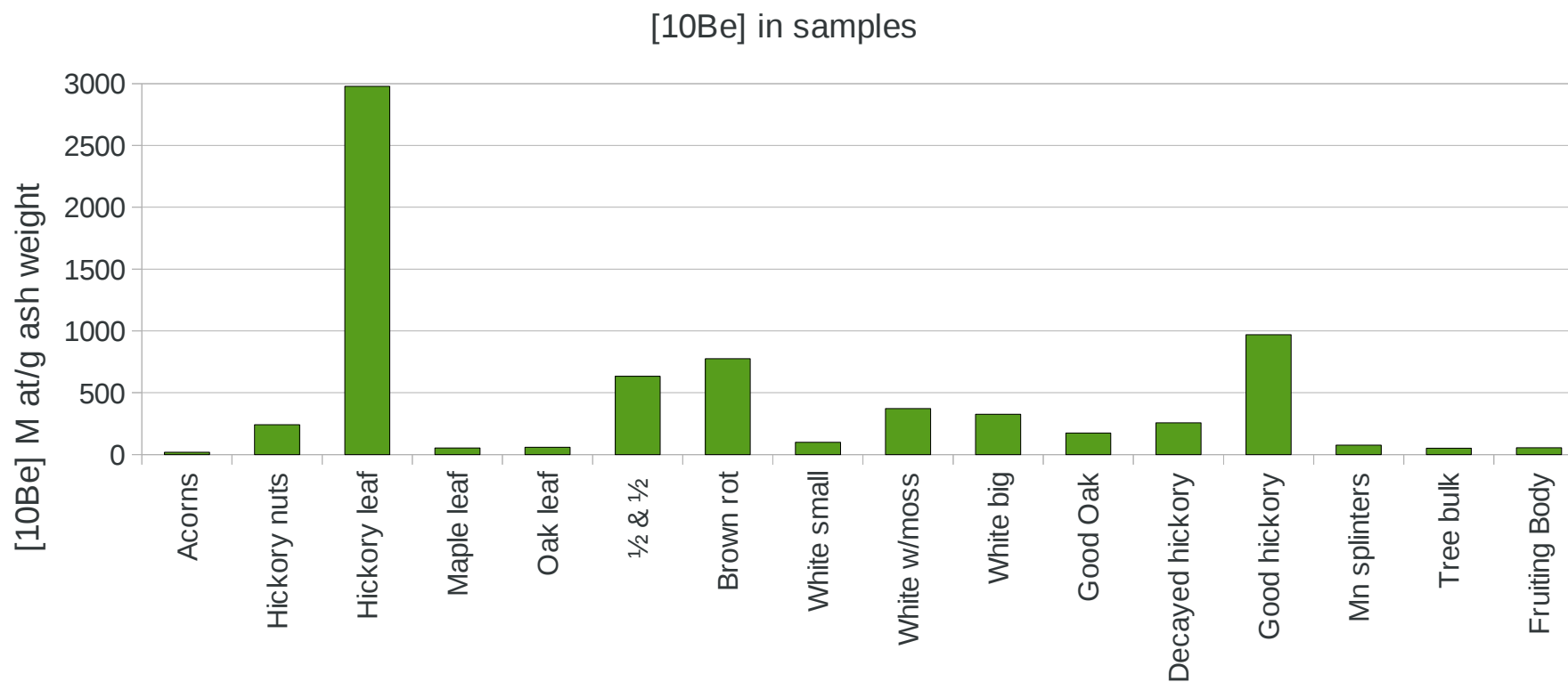
Results



Results



Results



Summary

There is probably something going on with the fungus, but there is not enough change to say that fungus is a major transporter.

There is something going on with hickory, but we aren't sure what makes this tree different from the others.

Future Work

