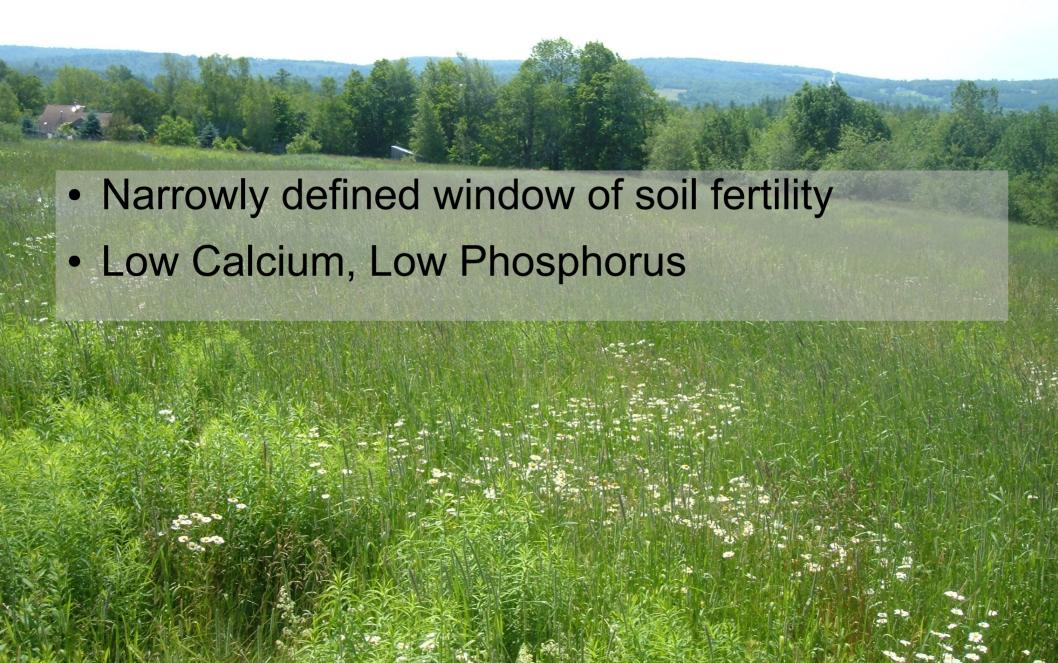


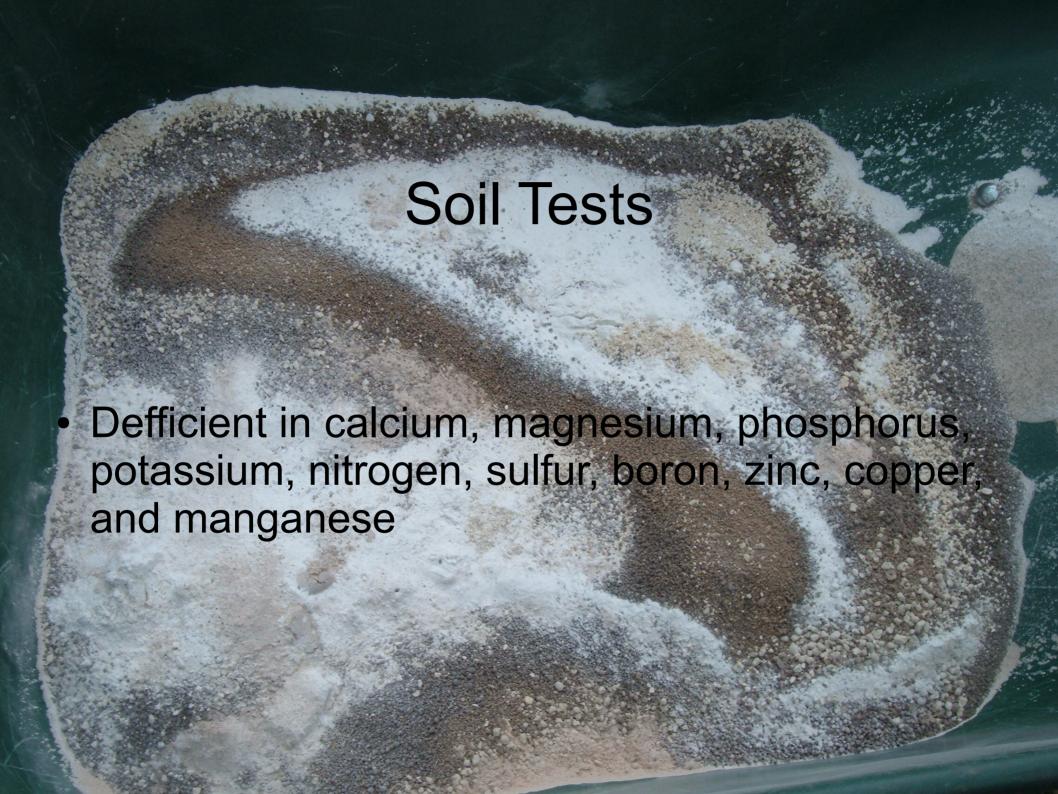


# Weeds & Why They Grow









## **Custom Amendment Blend**

 Year 1: hi-cal lime, gypsum, soft rock phosphate, magnesium sulfate, sulfate of potash, manganese sulfate, dolomitic lime, sulpo-mag, humates, zinc sulfate, sodium nitrate, myco-seed treat, and copper sulfate

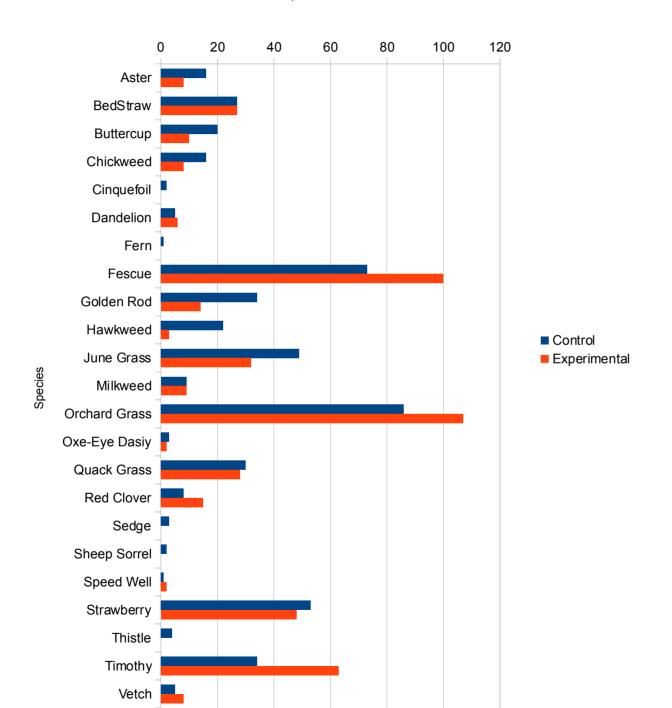
 Year 2: limestone, marl, sulfate of potashmagnesia, humus, soft rock phosphate, gypsum, brown phosphate rock, calcium borate, copper sulfate, zinc sulfate, and humates

# Species Composition Measurements



### **Pasture Species Composition**

#### September 2012



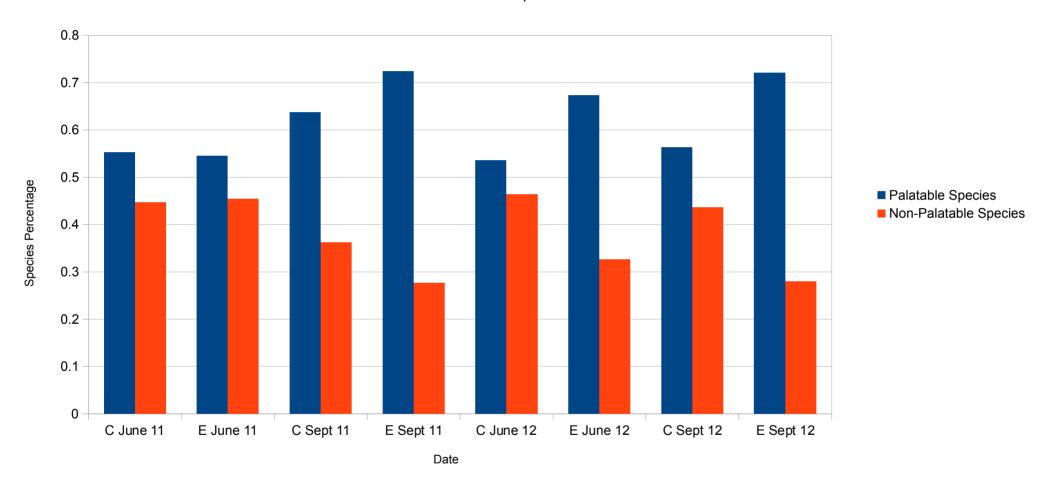
### Results

Increase in fescue, orchard grass, quackgrass, timothy, red clover, and vetch

Decrease in aster, buttercup, chickweed, cinquefoil, goldenrod, hawkweed, daisy, strawberry, and yarrow.

### **Species Compositon**

June 2011 - September 2012

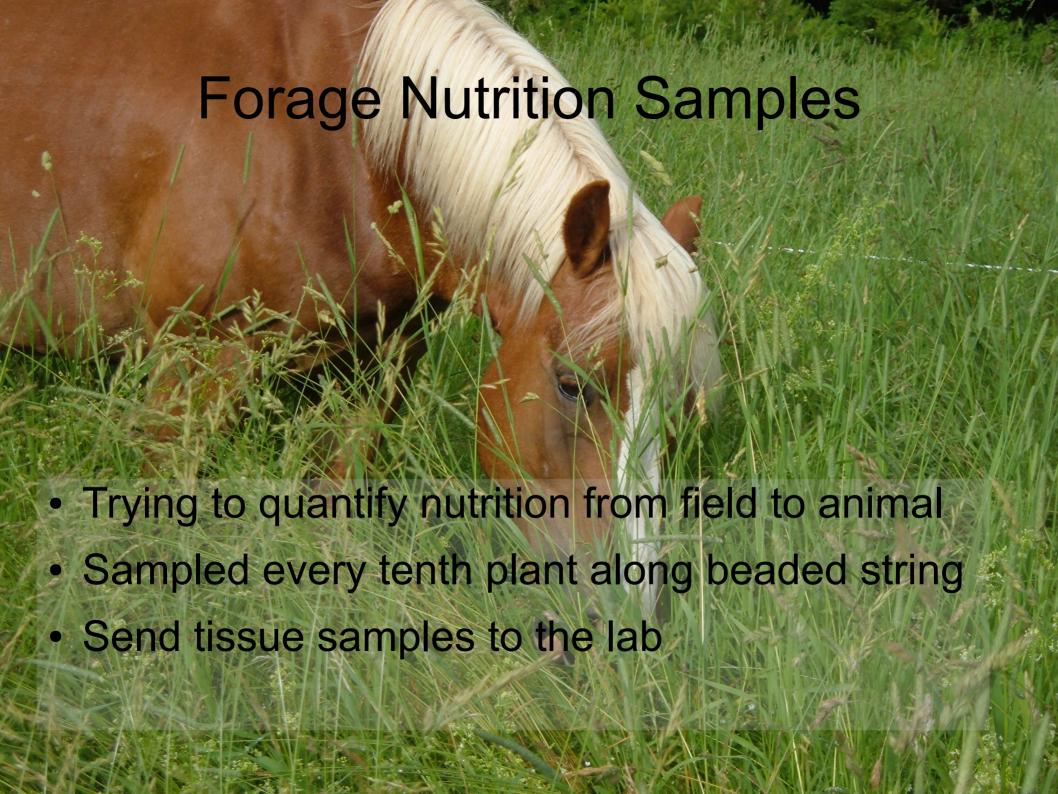


### Results

Species showing increase thrive in high Ca, Mg,
S, P, and pH

Species showing decrease thrive in low Ca and P

 2012 Soil test revealed higher Ca, Mg, S, pH, conductivity, and P levels, with a slight increase in N and K



### Results

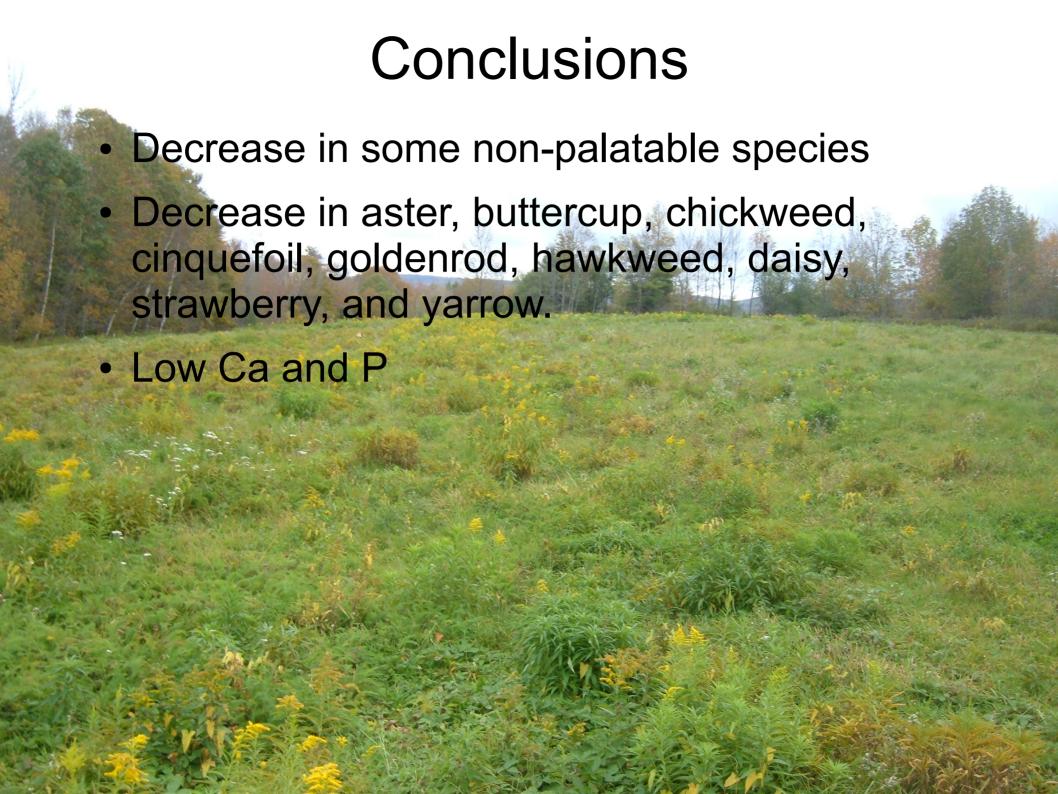
- Only slight differences detected in nutritional sampling
- Increased Boron in amended plots

## Conclusions

Increase in some palatable species corresponding to soil nutrition levels

Fescue, orchard grass, quackgrass, timothy, red clover, and vetch

Increased Ca, Mg, S, P, and pH



### Conclusions

Only slight changes in forage nutrition detected

Increased Boron

 Field applied dry blends may need more time to become active in the soil

### **Future Research**

 Need nutrition that is fast acting, financially viable, and effective

Liquid Amendments: sea salt, seaweed, liquid calcium, MPM

Yield Data

Bill Errickson Singir Mark Fulford Teltar

Singing Nettle Farm Teltane Farm

singingnettlefarm@gmail.com mark@lookfar.org

