

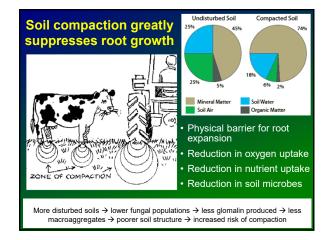
# Pasture Renovation Low Soil Fertility and pH Summary of UVM Soil Tests for Hay and Pasture in Vermont • ~1/3 were significantly acidic

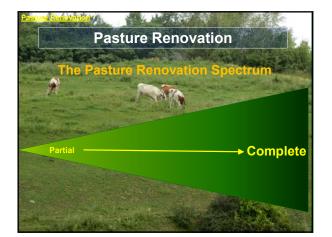
- Reduced N fixation
- Aluminum toxicity
- ~1/3 were low in potassium

   Important for winter hardiness
   Pest/disease resistance
- More than ¼ were actually LOW in phosphorus
   Reduced yield
- Some had all of the above!

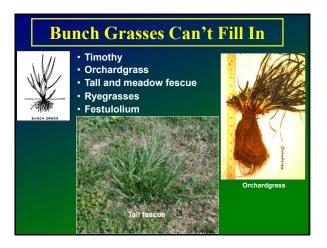
Low Soil Fertility and pH				
Soil pH	Nitrogen efficiency	Phosphorous efficiency	Potassium efficiency	
7.0	100%	100%	100%	
6.0	89%	52%	100%	
5.5	77%	48%	77%	

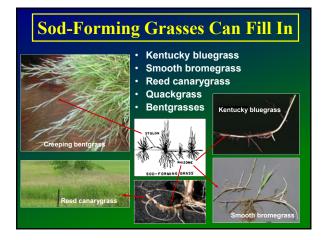


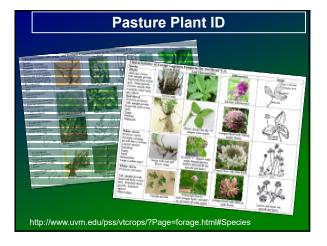










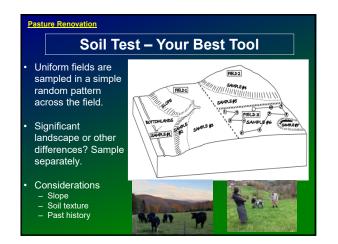


### Soil Test – Your Best Tool

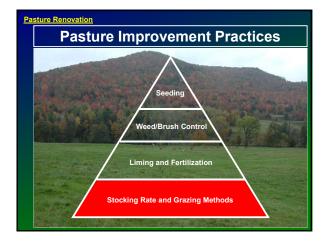
#### Each sample:

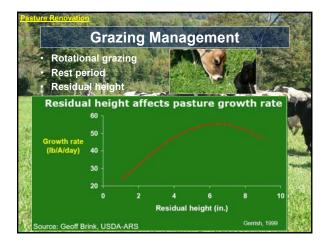
- 15 to 20 cores mixed in plastic bucket
- Follow soil test lab
   recommendations for depth
- Mix well to pull a smaller representative sample (cup) to send to the lab

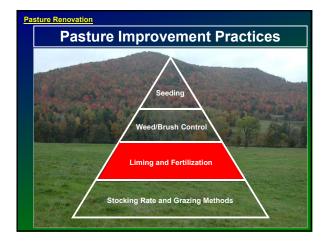


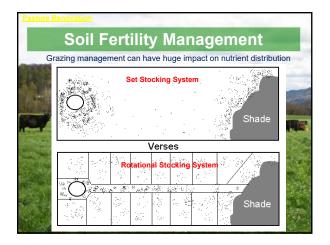






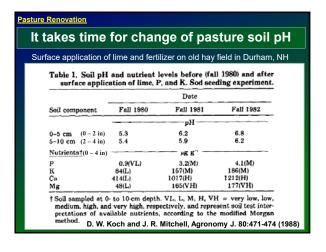


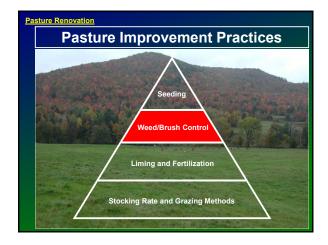






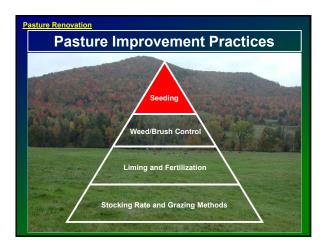


















Enhancing Thinning	Seeding Rates and Mixtures to Improve Existing Hay and Pasture Stands by Drilling	
Pastures or Hayfields	Mixed Hay Plant Species and Mixtures Orchardgrass	Ib/acre 6-10
When interseeding with either grasses or legumes, it is best	Red Clover Tall Fescue or Meadow Fescue Red Clover	3-4 5-10 6-8
to select species which have	Timothy Red Clover Alfalfa into Grass Sod	4-8 6-8 10-15
<ul><li>some tolerance to shading*:</li><li>Red clover</li></ul>	Red Clover into Grass Sod	6-10
<ul> <li>Ladino clover/white clover</li> <li>Italian ryegrass/festulolium</li> </ul>	Pasture Plant Species and Mixtures Orchardgrass Red Clover	Ib/acre 6-10 4-6
Orchardgrass	Ladino Clover Tall Fescue or Meadow Fescue Red Clover	1-2 5-10 4-6
Tall fescue/meadow fescue	Ladino Clover	1.2
* Other species can be successful but need heavier suppression of existing sod	Alfalfa into Grass Sod Red Clover into Grass Sod VA Cooperative Ext. Publicat	10-15 6-10



