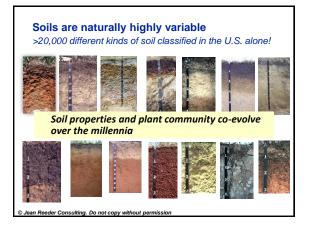


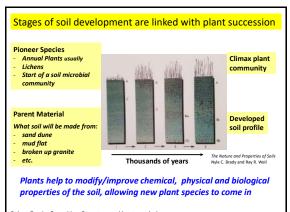


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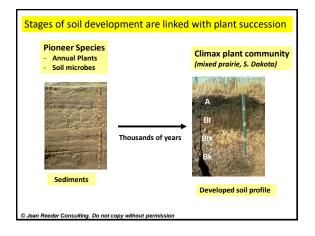


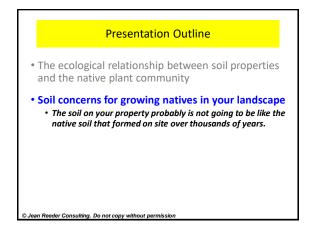
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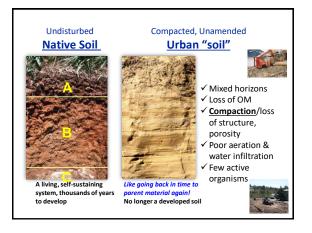


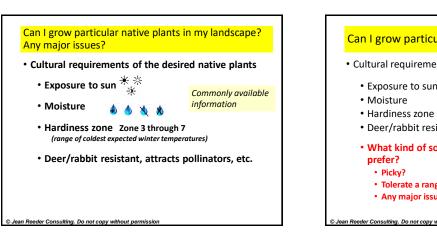
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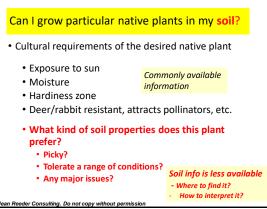


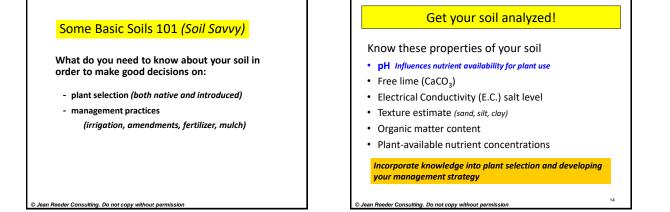


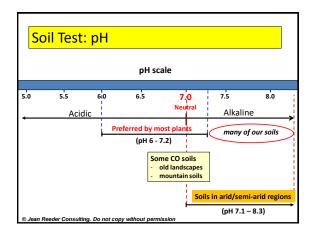


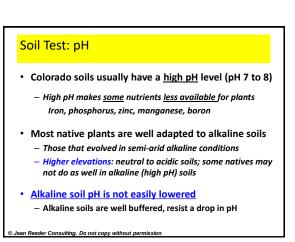












# Get your soil analyzed!

Know these properties of your soil

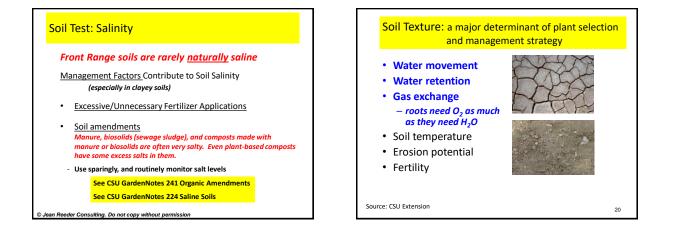
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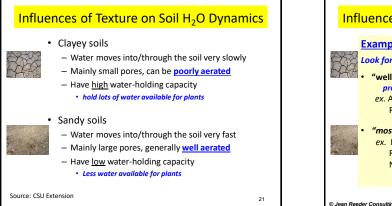
- pH Influences nutrient availability for plant uptake
- Lime Estimate (CaCO<sub>3</sub>) Tends to keep soil pH high
- Low lime content: added acidifiers e.g. S or FeSO<sub>4</sub> can lower
- pH somewhat, but repeated applications are necessary. .
- Medium to high lime content: cannot effectively lower soil pH by the addition of acidifiers to the soil. (Lime neutralizes added acidifiers)

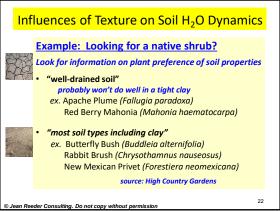
Soil Test: Salinity Electrical Conductivity, E.C. (mmhos/cm = dS/m)		
E. C.	Salinity Level	Effect on Plant Growth
<2 (<1 is better)	Non-saline	None
2-4	Slightly saline	Sensitive plants inhibited (many introduced landscape plants)
4-8	Moderately saline (many natives/xerics tolerate)	Most landscape plants inhibited
>8	Strongly saline	Most plants will not survive

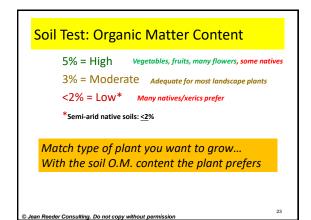
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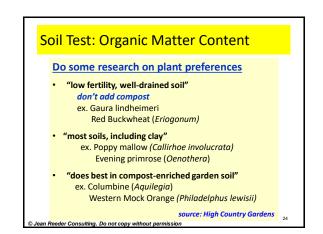
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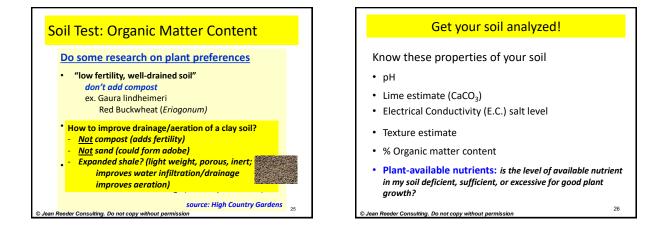


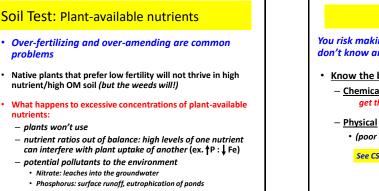




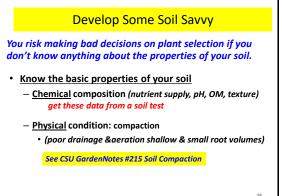


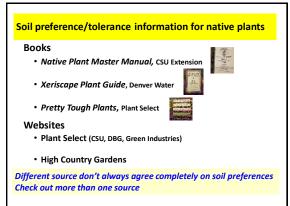




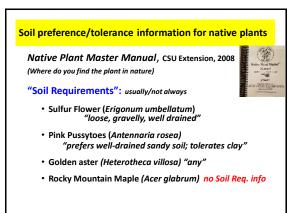


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# Soil preference/tolerance information for native plants

Xeriscape Plant Guide, Denver Water, 1996



Soil subheading in Culture section

- Blue flax (Linum perenne) "prefers well drained, but tolerates clay"
- Gayfeather (Liatris punctata)
   "Prefers infertile, dry, gravelly, shallow soil; grows compactly under these conditions. In richer, moist soil, may become more rangy."
- Winterfat (Ceratoides lanata) "grows in a wide variety of soil textures including clay, sandy and rocky. Does well in alkaline soil"
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# Soil preference/tolerance information for native plants Pretty Tough Plants Plant Select, 2017 "Culture" Image: Comparison of the select se

Soil preference/tolerance information for native plants
Plant Select (CSU, DBG, Green Industries)

• www.plantselect.org

"Search the Plant Database"

• Plant: type, size, flower color & season, zone hardiness

• Sun/water needs, deer resistant, attracts pollinators

• N. American native y/n

• SOIL: clay, loam, sandy, gravelly

## Soil preference/tolerance information for native plants

### High Country Gardens www.highcountrygardens.com

- Plant Finder
  - Enter the plant name

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- Zip code/region/zone
- Sun/water needs
- Flower color, bloom season
- Plant size, planting time
- Advantages: deer/rabbit resistant, attracts
- birds/butterflies/pollinators
- SOIL: clay, sandy, average, compost-enriched garden loam low fertility, well-drained, drought/dry

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### Soil preference/tolerance information for native plants

# Soil information is not as well developed as requirements for sun/moisture/zone

• for either native or introduced plants

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- soil info available: focus generally on texture & OM
- little info on tolerance to pH or salinity, nutrient requirements, etc.

### Going to have to make some inferences

- ex. columbine evolved at higher elevations
   may be more sensitive to high pH and salinity
- ex. common juniper, found over whole N. hemisphere
   elss sensitive to soil conditions

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## Plants also can be too aggressive

- Example: my yard (fine sandy loam soil)
  - Little bluestem (Schizachyrium scoparium) • Took over! Had to completely remove
  - May Night Salvia (Sylvestris)
     Took over! Had to completely remove
  - Neither of these were a problem in my former Fort Collins landscape (clayey)
  - This info may not show up in references

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