





Outline

- Site Assessment.
- Strategies for soil stabilization and seed stratification
- Maintenance during the establishment phase

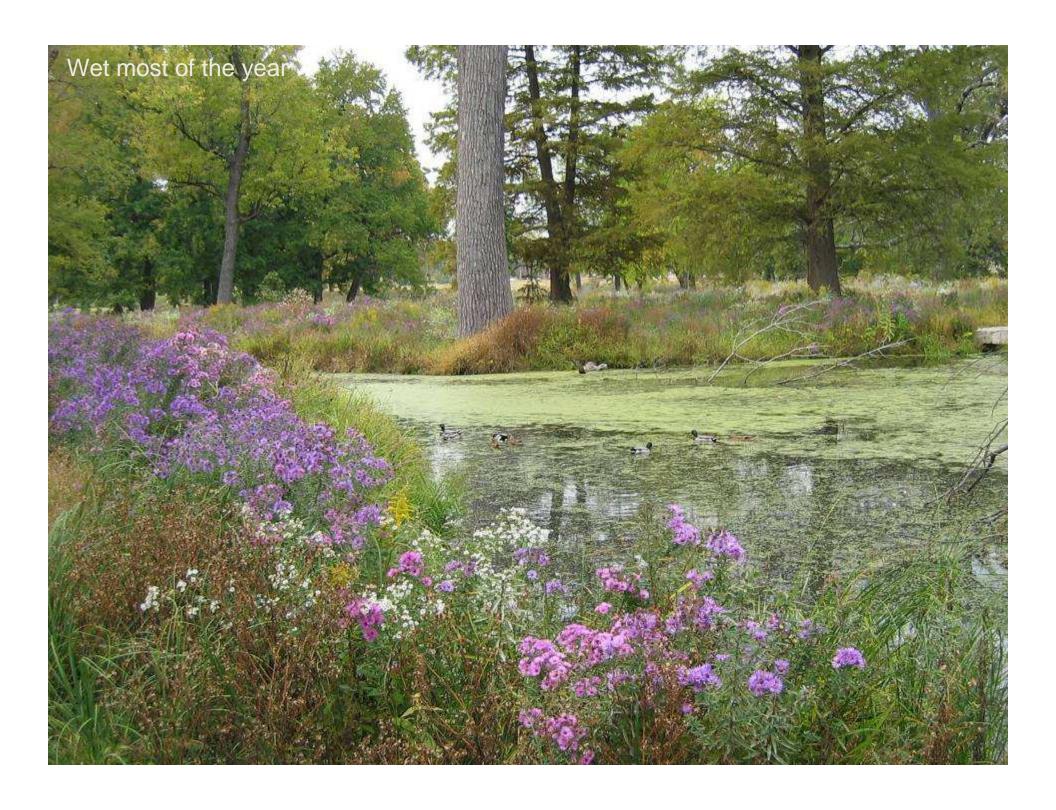




Overview

- Plan your plant community around existing lay of the land.
- Basic agronomic fertility levels give you a place to start.
- Compaction is your enemy
- Weeds will come to visit
- Soil communities will rebuild over time









Correct fertility if needed

- Use Build up rates from the soils lab
- Adjust P to 45-50 lbs/Acre
- Adjust K to 260 300 lbs / Acre
- Adjust PH to 6 to 8 with agricultural lime or sulfer.
- If CEC is below 12 meq/100g you may have to add organic matter or grow a cover crop to disk in.

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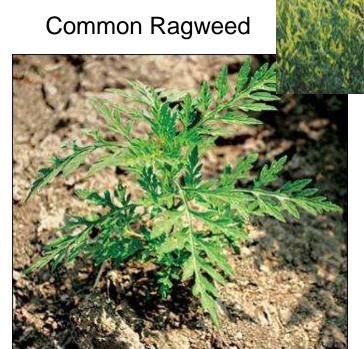




Annual Weeds



Foxtail



Sweet Clover

Perennial Weeds



Johnson Grass



Canada Thistle



Serecea lespedeza

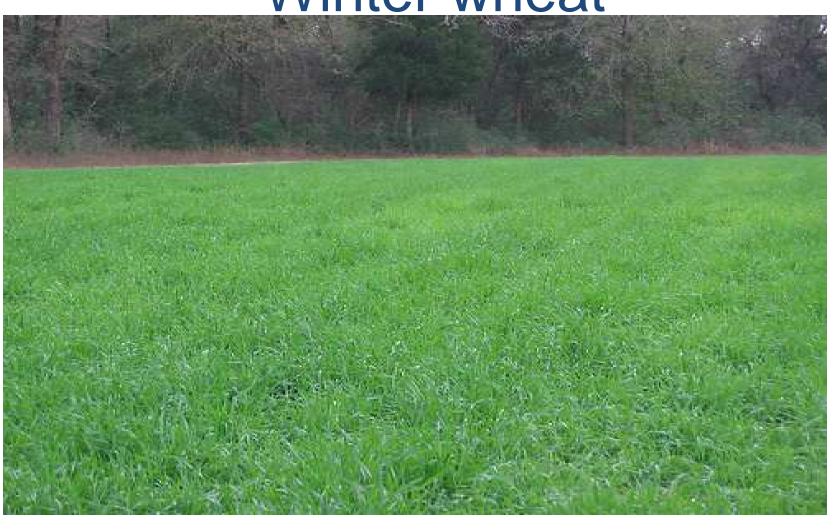
Stratagies for soil stabilization

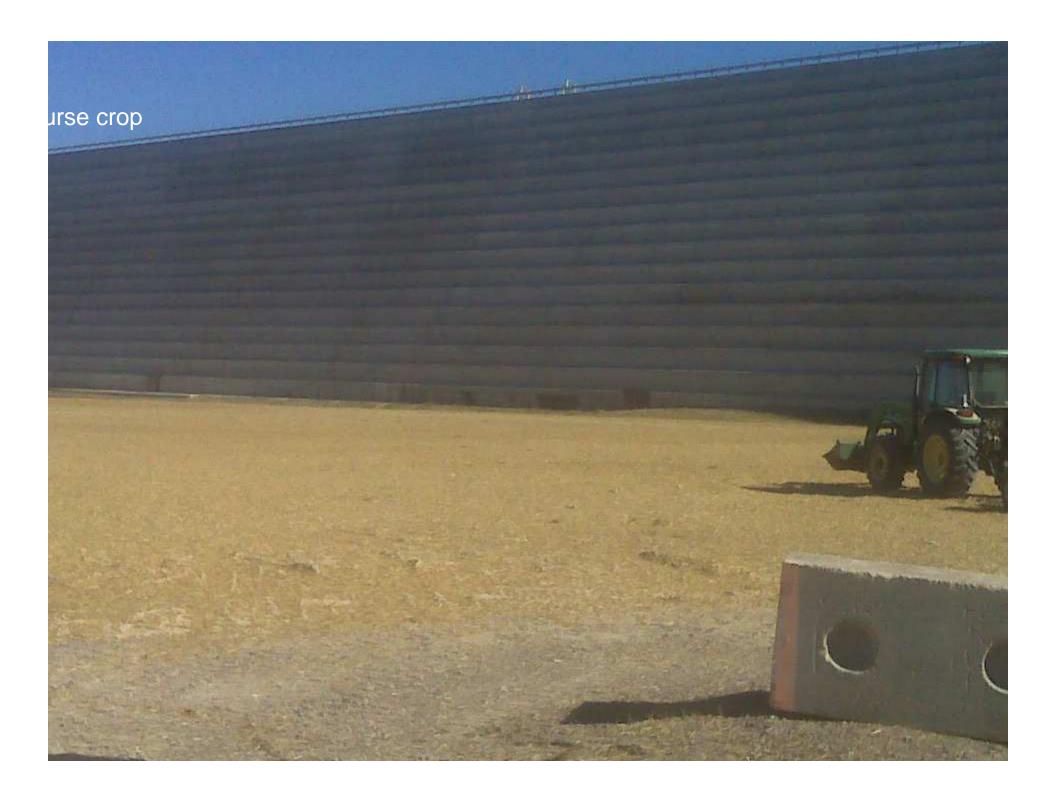
- No-till through dead sod or nurse crop
- Nurse crop only
- Straw mulch with nurse crop
- Erosion control blanket

No-till through dead sod



Cover crop 1 bushel /acre Winter wheat







Native Seeding



Seasonal Considerations

- November15 through March 15 for mixed forbs and grasses
- March 15 to may 1 Grasses only.
 - Proper site prep + Correct fertility = Success
 - •Match the seed mix to the site
 - Native Seed mixes are low lbs/ Acre Calibrate Carefully

SEEDS (PLS) PER SQUARE FOOT

Permanent Grasses:		Average		
Botanical Name	Common Name	Seeds/ Ounce	Ounces / Acre	Seeds/ Sqft
Andropogon gerardii	Big Bluestem	8,188	48.00	9.02
Bouteloua curtipendula	Side-Oats Gramma	9,375	32.00	6.89
Chasmanthium latifolium	River oats	3,969	8.00	0.73
Elymus canadensis	Canada Wild Rye	4,258	32.00	3.13
Elymus virginicus	Virginia wild rye	4,375	16.00	1.61
Hystrix patula	Bottlebrush grass	4,700	1.00	0.11
Schizachyrium scoparium	Little Bluestem	8,800	32.00	6.46
	Total		169.00	27.95

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Construction Sites, Compaction, Rubble, Toil and Trouble

Set a realistic time frame

Damaged sites take 3 to 5 years to recover

Set a maintenance schedule

Overseeding and fertility adjustment



 Maintain plantings through the first two years of establishment at a minimum.

- High mow annual weeds
- Spot spray perennial weeds
- Maintain fertility levels
- Overseed thin spots





Tallgrass Prairie Facts

- Compiled by Minnesota DNR
- 1. Native tallgrass is the MOST ENDANGERED ecosystem
- in North America *Kansas University*
- 2. Native prairie root systems are the BEST natural soil
- anchors on earth.
- 3 In one acre of established prairie there is 24,000
- pounds of roots. Iowa State University
- 4. One acre of prairie can ABSORB 9" of rainfall/hour
- before runoff occurs. University of Northern Iowa
- 5. One acre of established prairie will INTERCEPT as
- •much as 14,000 gallons of water during a one inch per hour rain
- •event. *University of Nebraska, Lincoln*

GOOD JUDGEMENT is the result of experience, EXPERIENCE is the result of BAD JUDGEMENT



