

## Successful Methods For Shrub Reestablishment In Eastern Wyoming

WRRC Shrub Workshop April 26<sup>th</sup> 2011 Paul Griswold



- Planting the Shrub Seed TOO Deep
- M.N. Affect (mother nature) Drought & Wind
- Planting the Shrub Seed TOO Deep
- Seasonal Timing of Shrub Seeding
- Planting the Shrub Seed TOO Deep
- Poor Seedbed Preparation Leading to Planting the seed TOO Deep



# IMPORTANT FACTORS FOR SUCCESSFUL SPECIES ESTABLISHMENT

- Proper Planting Depth of Seed
- Proper Seed to Soil Contact for Germination
- Soil Fertility and Vigor (Tilth)
- Moisture and Temperature (M.N. Affect)



## SEEDING TECHNIQUES AND TIMING

Broadcast seeding Drill or Mechanical seeding Hydro seeding







- Brillion or Trillion style Seeder
- Broadcaster and Chain Harrow
- Dribble Seeding with a Mechanical Style Drill Seeder











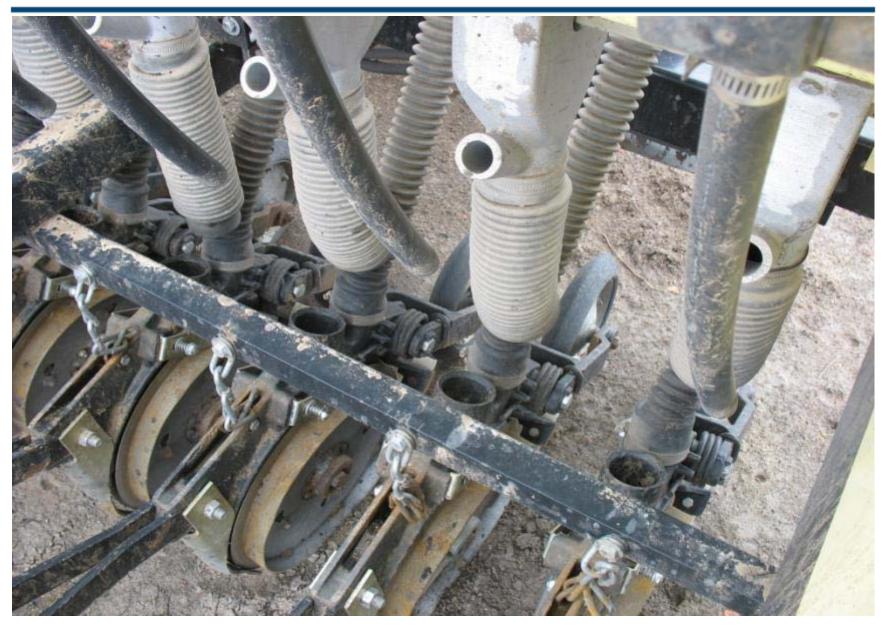
### **Drill or Mechanical Seeding Rangeland Style**

- Double Disc Opener
- Single Disc Opener
- Pitting or Imprinter















### **Hydro Seeding**

- Hydro seeding
- Hydro mulching
- Tackifying









Timing of seeding will vary depending upon your desired results.

- Post-mining land use
- Production
- Diversity
- Shrub Density
- Special habitats





















#### **Shrubs:**

- Early spring seeding of shrubs (February)
  Snow and frost helps form surface crust
  Shorter duration of wind season
  Snow and frost also breaks down the seed coat for germination
- •Reduce competition from other species
- Available moisture
- Timing of seeding according to precip events































