The Use of Seed Enhancement Technologies to Improve Sagebrush Establishment Across an Elevation Gradient

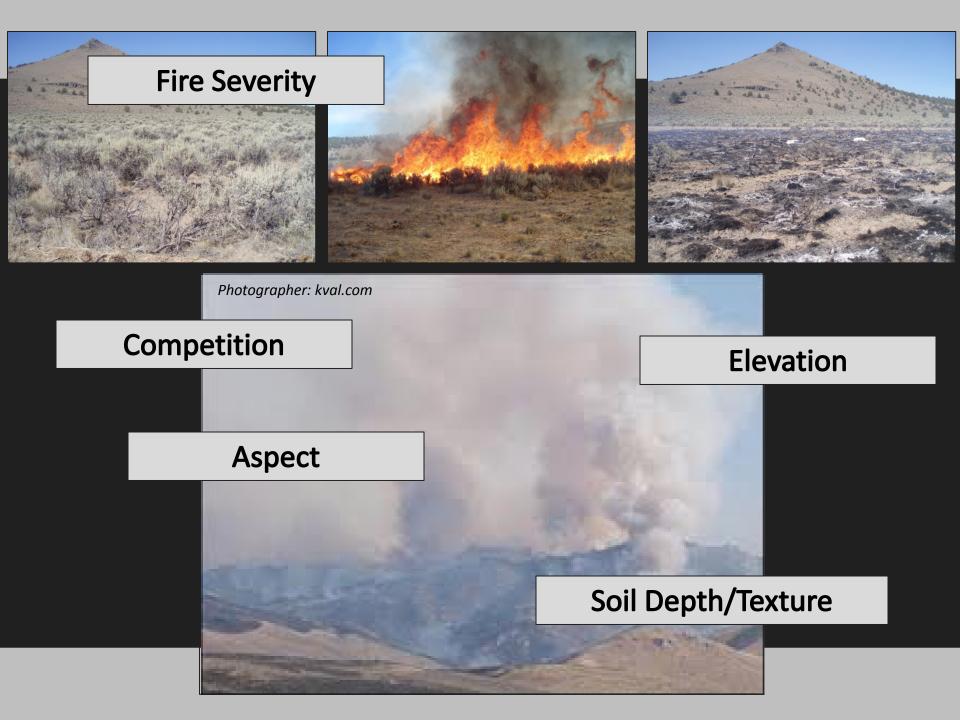
April Hulet, Kirk Davies, and Matt Madsen

USDA-Agricultural Research Service | Burns, Oregon









Sagebrush Restoration Methods



Aerial Seeding



http://www.blm.gov





Limited by Biotic and Abiotic constraints



Seed Enhancement Technologies

Seed Enhancement Technologies: Dr. Matt Madsen

Seed Pillows



Seed Pellets



Extruded Seed Pillows

Ingredients



Dough extrusion



Dusting



Rip cut



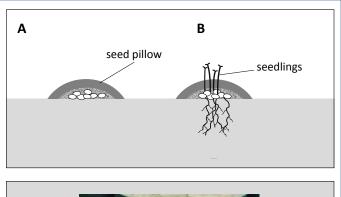
Cross cut



Dried seed pillows

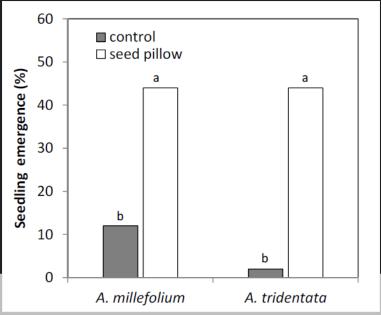


Extruded Seed Pillows

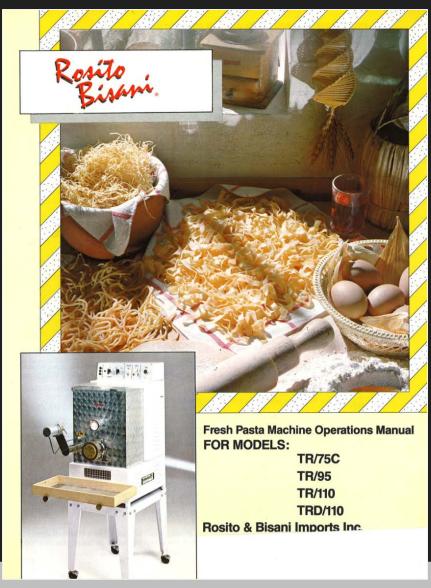


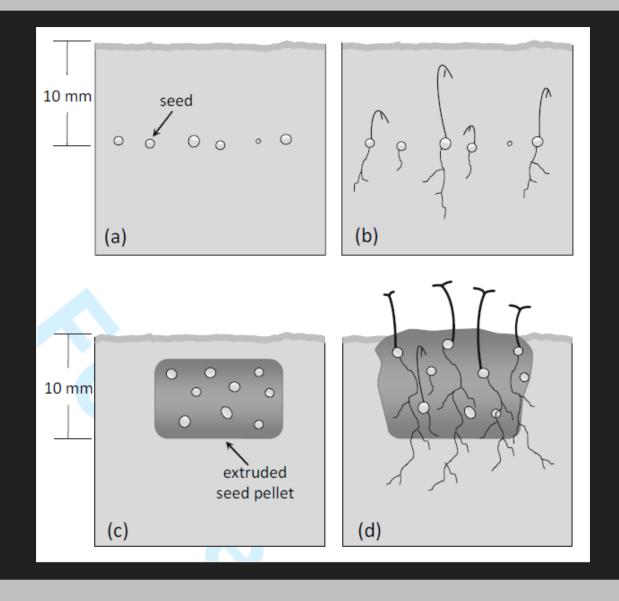


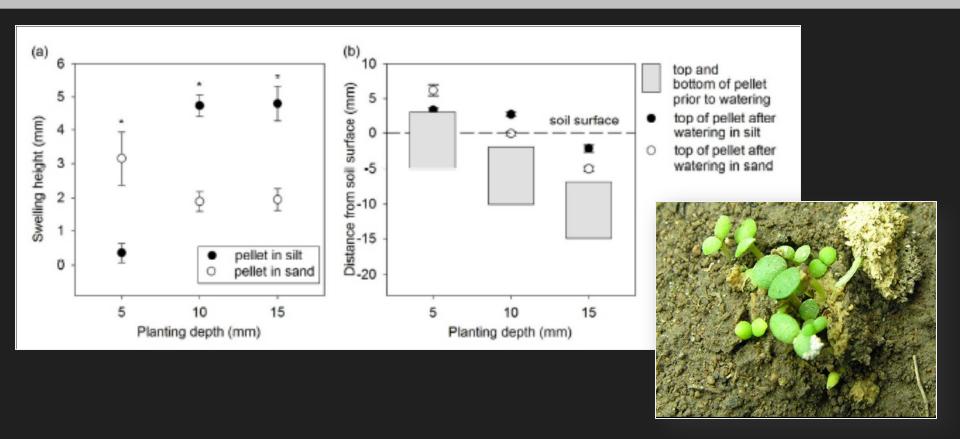


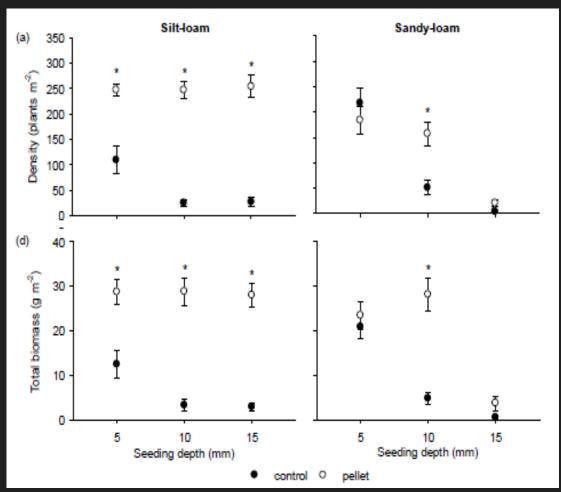










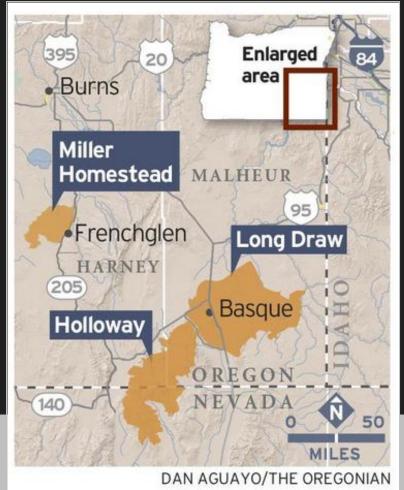




Success of Different
Restoration Methods
across an
Elevation Gradient







Success of Different
Restoration Methods
across an
Elevation Gradient

Broadcast Seeding

Broadcast Seeding and Packing





Success of Different
Restoration Methods
across an
Elevation Gradient

Broadcast Seeding

Broadcast Seeding and Packing

Seed Pillows





Success of Different
Restoration Methods
across an
Elevation Gradient





Broadcast Seeding

Broadcast Seeding and Packing

Seed Pillows

Sagebrush Seedlings

Success of Different
Restoration Methods
across an
Elevation Gradient



Broadcast Seeding

Broadcast Seeding and Packing

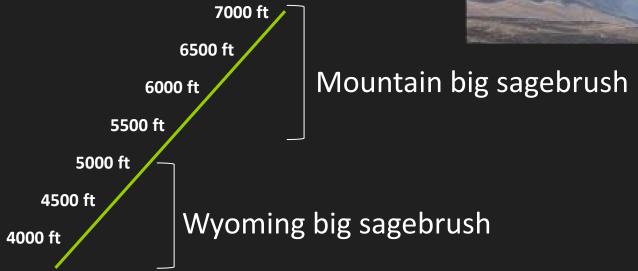
Seed Pillows

Sagebrush Seedlings

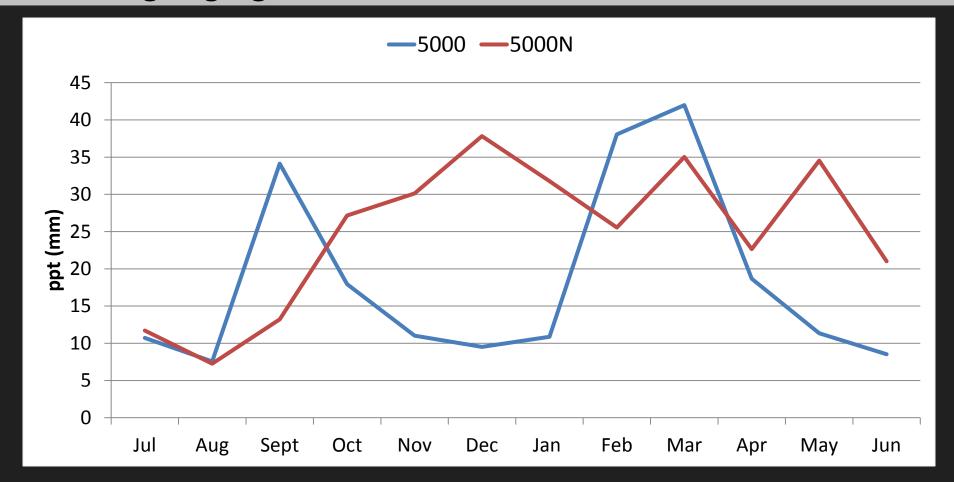
Natural Recovery

Success of Different
Restoration Methods
across an
Elevation Gradient

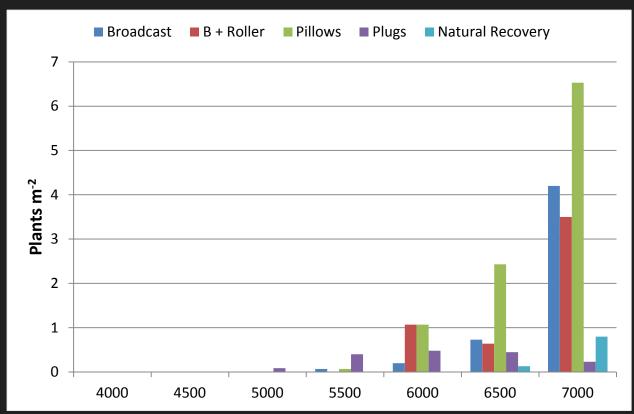




Restoring Sage-grouse Habitat after Fire: PRISM data

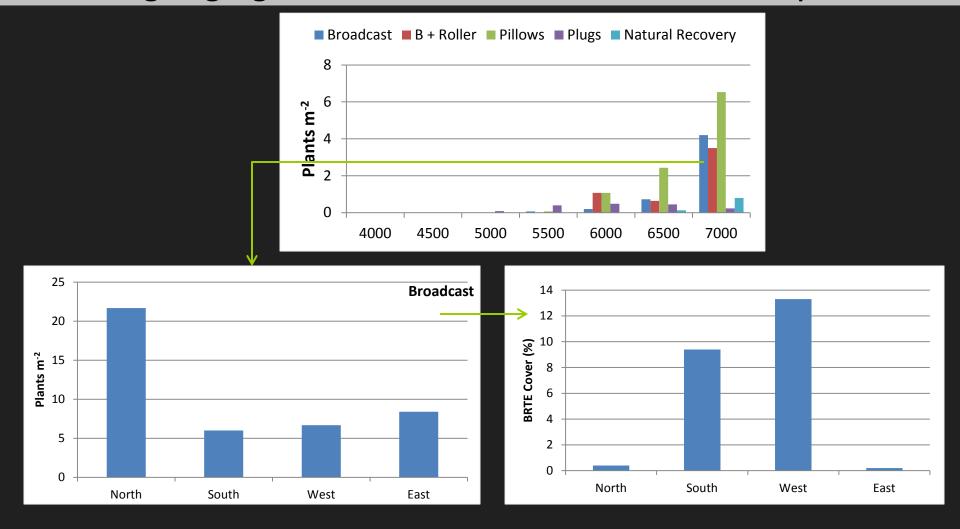


Restoring Sage-grouse Habitat after Fire: Preliminary Results

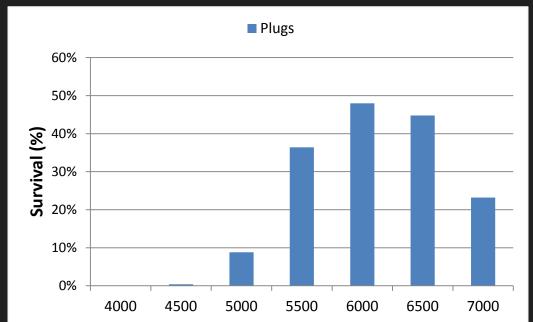




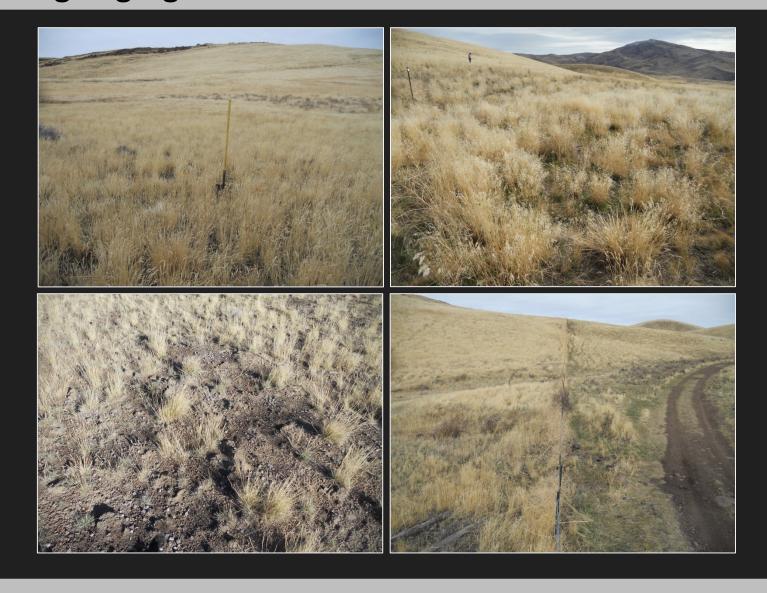
Restoring Sage-grouse Habitat after Fire: Preliminary Results



Restoring Sage-grouse Habitat after Fire: Preliminary Results







Questions

