



### **Potential challenges** Timing of kill and land preparation (may delay planting) Incorporation (cover crop, equipment) Nitrogen tied-up and slow release (grasses) Weeds if poor stand Used up soil moisture Cool soil in spring May provide habitats for pests

## Selection and mixtures

- Objective(s) and season
- Nitrogen (legumes)
- Nutrient capture/recycle (grasses, brassicas, others)
- Organic matter (grasses)
- Bio-fumigant (brassicas)
   Erosion (all)
- Weed suppression (grasses, legumes)











Grasses (biomass, scavenge)	
<ul> <li>Winter</li> <li>– Rye</li> </ul>	<ul> <li>Good scavengers</li> </ul>
– Wheat – Barley – Others	<ul> <li>Biomass:</li> <li>– 1 to 5 ton/acre</li> </ul>
Summer	<ul> <li>Weed suppression</li> </ul>
– Sorghum Sudan grass – Millet	Erosion









Brassicas (soil health)	
<ul> <li>Good scavengers</li> </ul>	
<ul> <li>Natural fumigants</li> </ul>	
<ul> <li>Hard pan</li> </ul>	
Erosion	

























# No till planting Irrigation Slow growth

















### Plasticulture and nutrients



### Shredding and plastic mulch



# Subsequent cash crop Grasses (sorghum) tie-up nutrients Legumes promote growth



