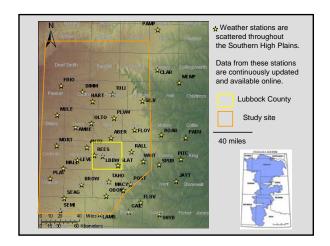
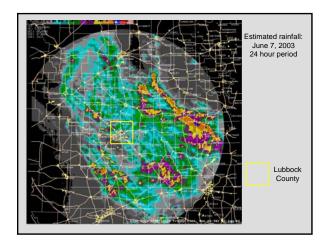


Description of region Southern Great Plains About 30,000 playas (ideal experimental replicates) Each playa within its own watershed Heavy agriculture, mostly cotton and under irrigation from the Ogallala Significant wildlife use of playas

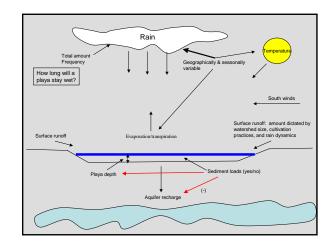


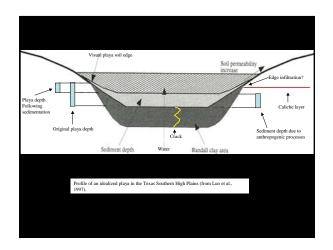


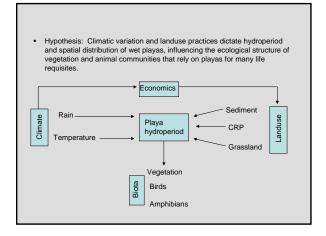




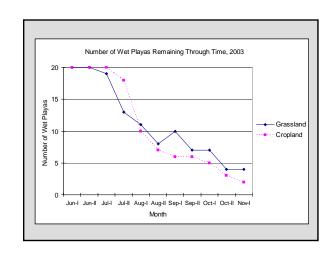


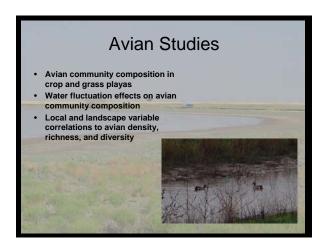


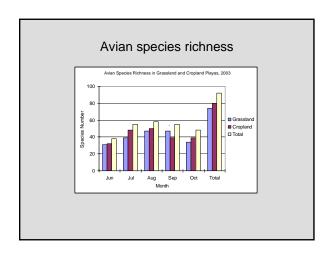


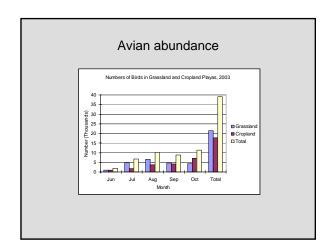


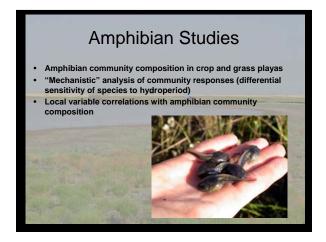
Experimental Design Southern High Plains in west Texas 40 wet playas selected per year (20 cropland and 20 grassland) Sample amphibian, avian, and vegetative communties Determine playa hydroperiod, volume, sediment depth. Estimate extreme temperature and precipitation patterns. Estimate sediment runoff into playas.

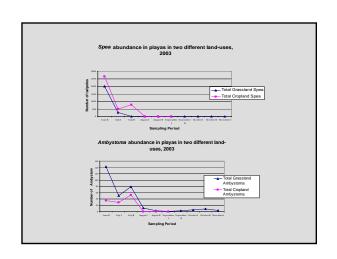


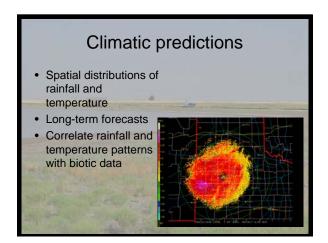


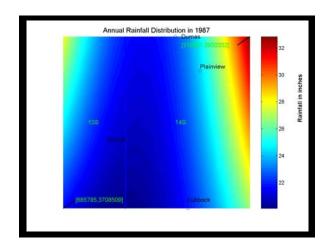


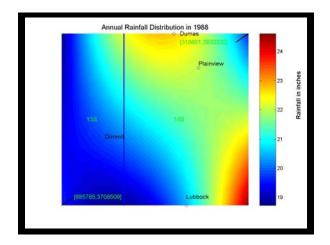


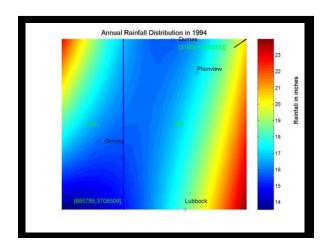


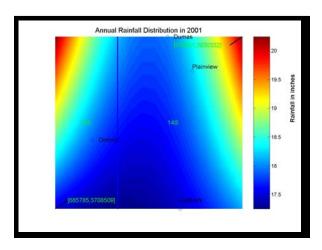


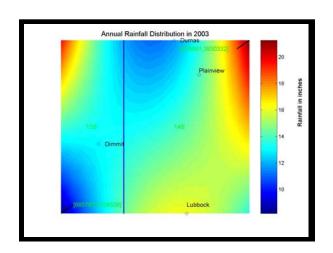


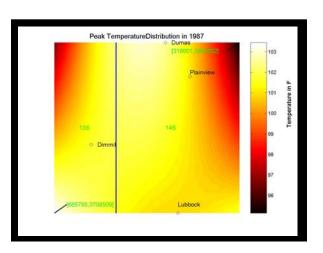


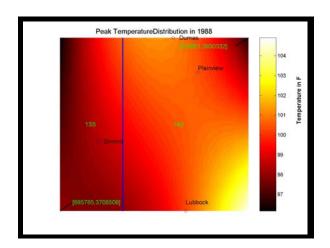


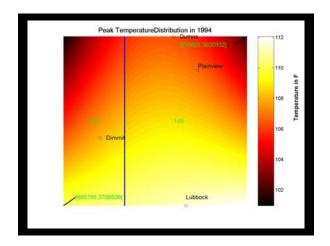


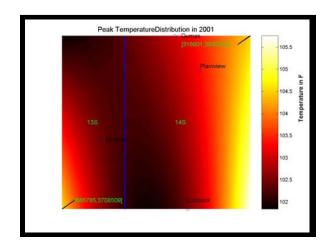


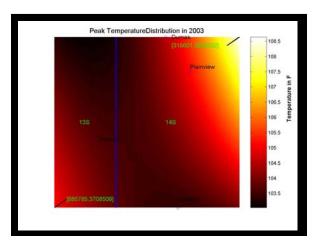












Integration

- Rainfall and temperature 3 levels
- Playas & watersheds vary soil, slope, sediment loads
- Biotic data
- Economic cost-benefit models
 - Predicted outcomes under current and new policies (mitigation strategies)
 - e.g., dryland, crop rotations, buffer strips, excavation

