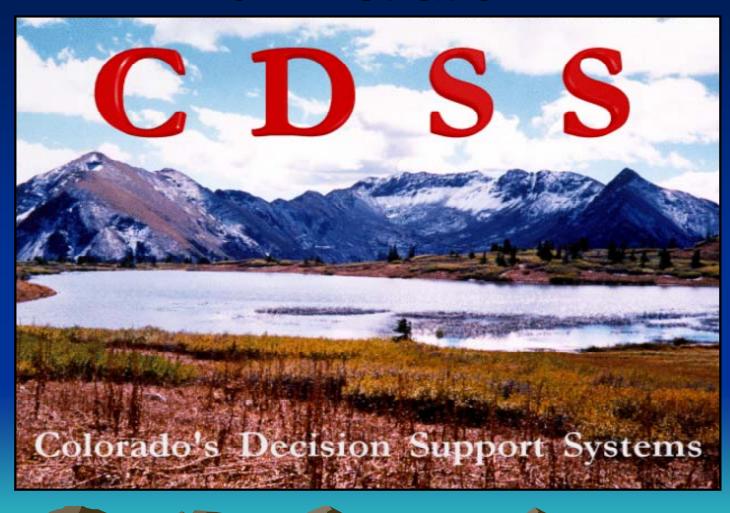
CDSS Tools for Water Administration



CDSS Tools for Water Administration

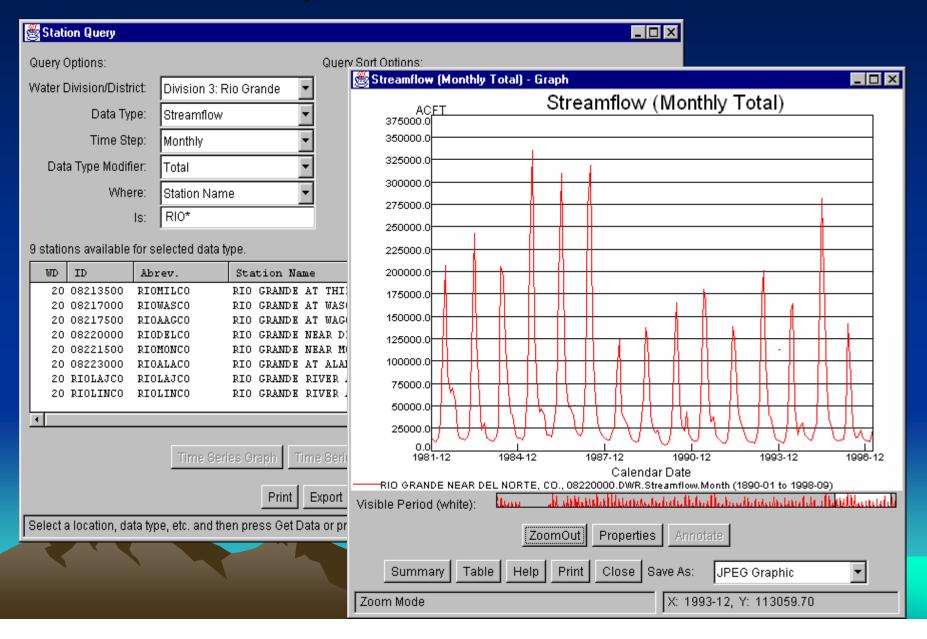
- CD's of HydroBase
- GIS Coverages
- StateCU, a Consumptive Use Model
- AWAS, a Stream Depletion Model

HydroBase CD

- Stations
 - Streamflow
 - Climate (temp, ppt., evap.)
- Structures
 - Diversions
 - Reservoirs
 - Instream Flows
 - Wells
- Water Rights
 - Transaction
 - Net

- Ground Water
 - Water Levels
 - Pumping Tests
- Other
 - Agricultural Statistics
 - Crop Growth Coefficients

HydroBase CD

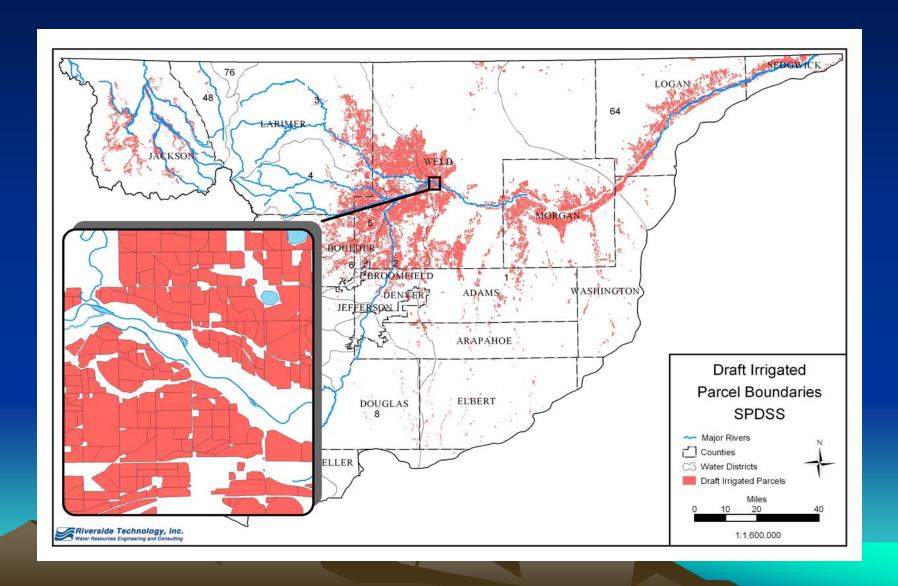


GIS Coverages

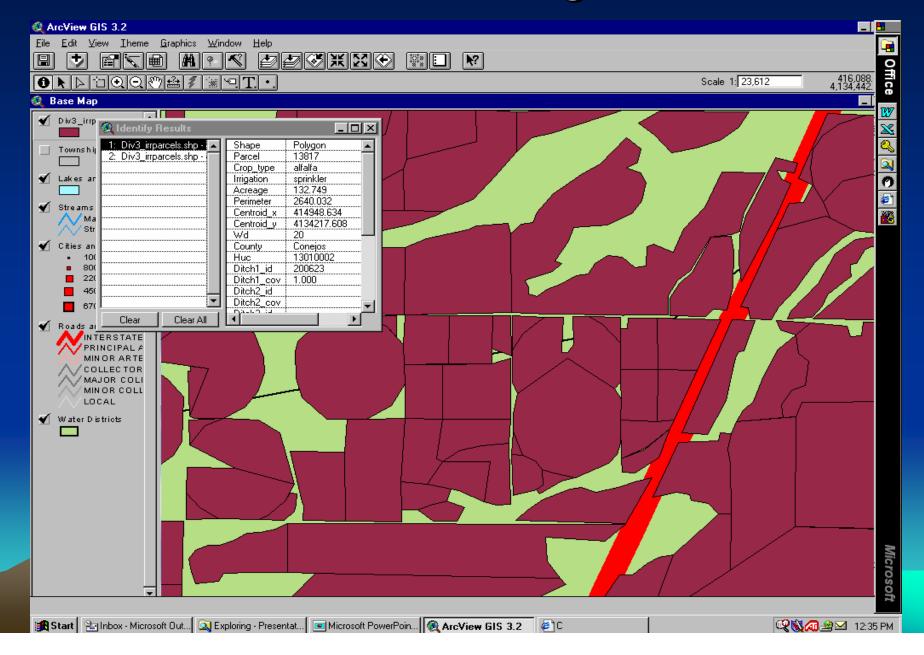
- Base Data
 - Hydrology
 - Roads
 - Cities and Towns
 - Public Land Survey (T-R-S)
- Stations
 - Diversions
 - Reservoirs
 - Instream Flows
 - Climate

- Irrigated Acreage
 - Water Source
 - Crop Type
 - Irrigation Method
- Other
 - Average precipitation
 - Average evaporation
 - Canals
 - Drains

GIS Coverages



GIS Coverages

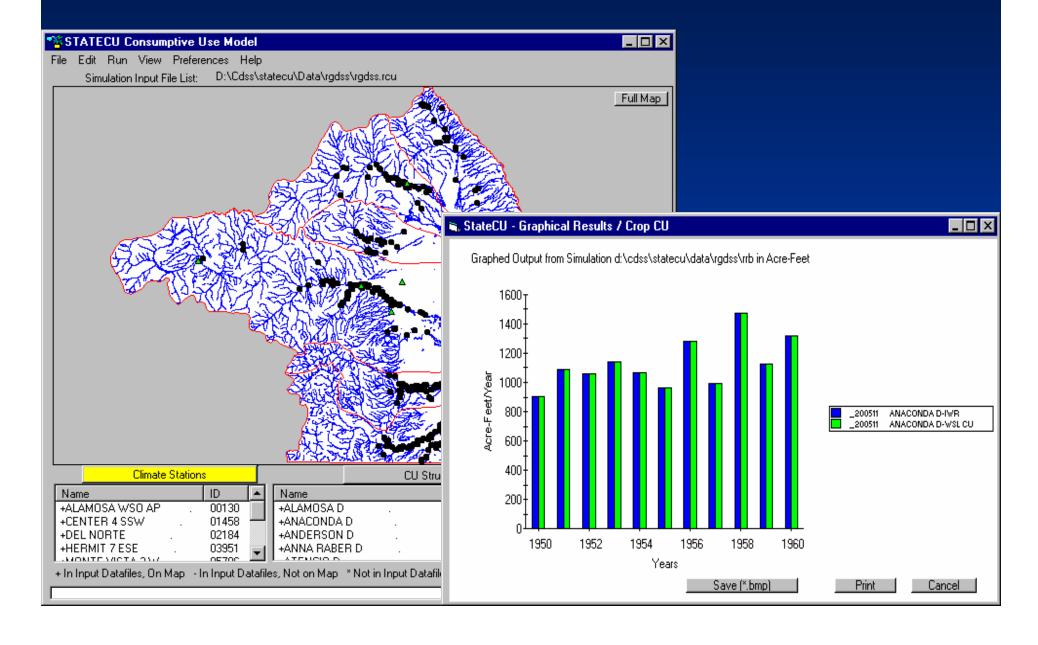


StateCU

- Inputs
 - BC data
 - Climate (ppt, temp, frost)
 - Irrigated Acreage
 - Irrigation Method (flood, sprinkler)
 - Diversions
 - Efficiencies (Canal & On farm)

- Outputs
 - IWR (Potential)
 - CU (Water Supply Limited)
 - System Losses /Recharge
 - Pumping Estimates

StateCU

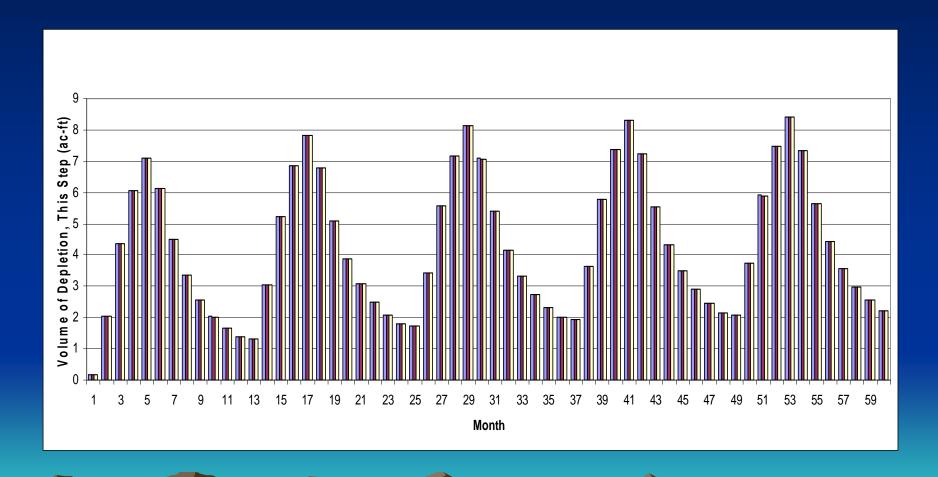


AWAS

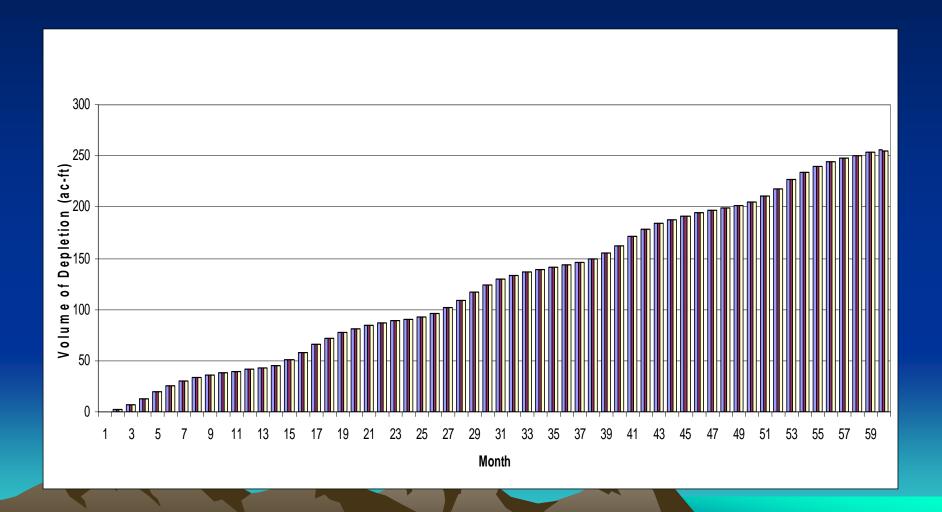
- Developed by IDS at CSU
- Time Step
 - Daily
 - Monthly
- Boundary Conditions
 - Alluvial
 - Infinite
 - No Flow

- Year Type
 - Calendar
 - Water
 - Irrigation
- Input Options
 - Pumping Records
 - Net CU
 - Recharge Rate

AWAS Depletion Vs Time



AWAS Total Depletion



Summary

- CDSS has developed or adopted a number of tools and Data sets
 - HydroBase CD's
 - GIS Coverages
 - StateCU (CU Model)
 - AWAS (Depletion Model)
- Excellent source of Water Resource Data and Tools