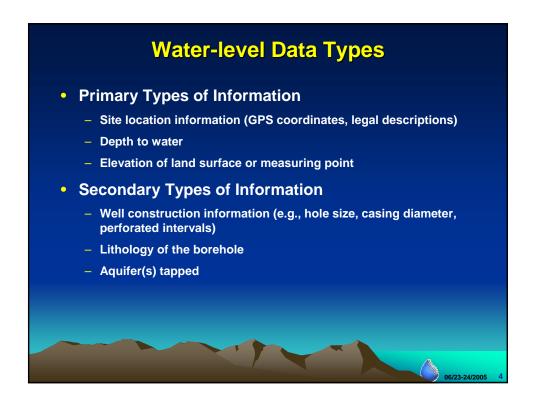
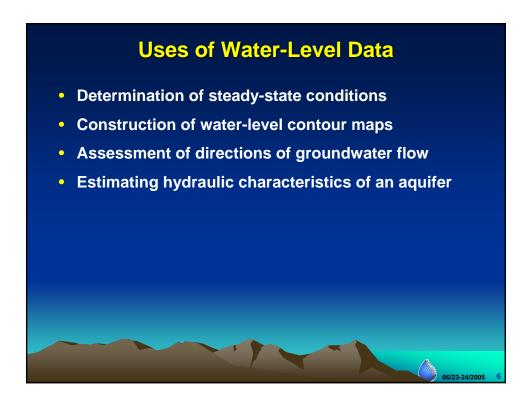


### Presentation Organization Definitions Water-level data types Common methods of measurement Uses of water-level data Study area Sources of data Project basins observations Data Considerations How to access the data

## Definitions Water level (or depth to water) The level of water in a borehole or well at a particular time. The level can be reported as depth to water below land surface or from a reference point. Water-level elevations Water-level elevations are calculated by subtracting the depth to water from the elevation of your reference point (i.e., Land surface or measuring point)





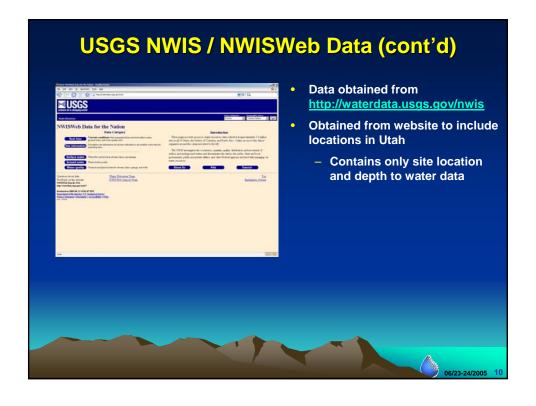


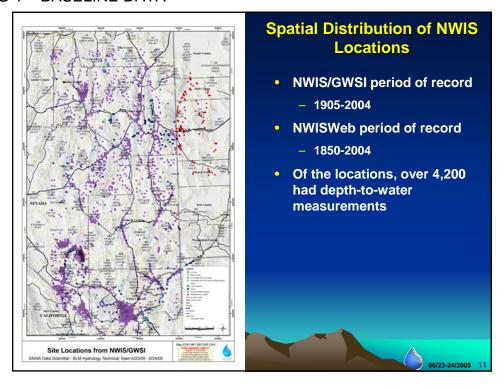
# Study Area Data collected for an area slightly larger than the "General Hydrologic Study Area" Includes portions of Clark, Lincoln, and White Pine counties in Nevada Includes hydrographic areas in Utah (parts of Snake and Hamlin Valleys)

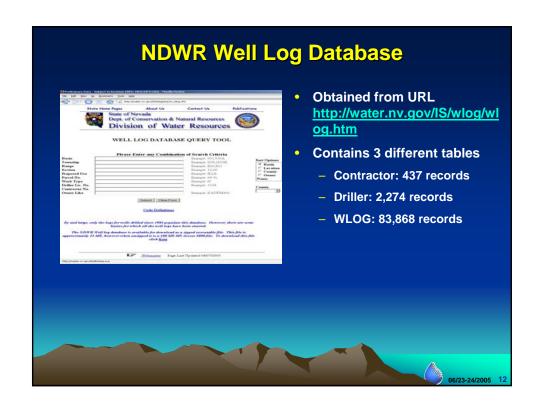
### **Sources of Data**

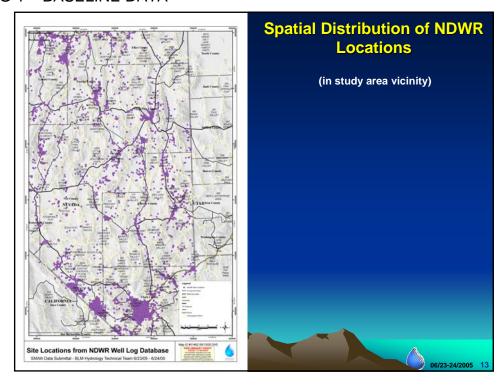
- U.S. Geological Survey's (USGS) National Water Information System (NWIS) / Groundwater Site Inventory (GWSI) database
- Nevada Department of Water Resources (NDWR)
   "Well Log" database
- Southern Nevada Water Authority (SNWA) data
- Other Sources of Data
  - Published reports, maps, and online databases (including Utah data)

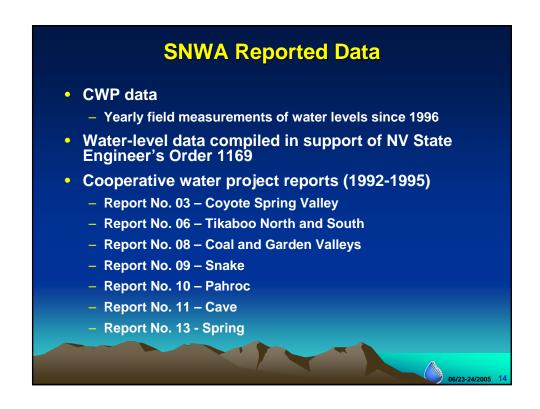
## USGS NWIS / NWISWeb Data • NWIS/GWSI data obtained from the Henderson, NV USGS district office June 2, 2004 • Data included: - Site information (10,044 records) - Depth to water (94,269 records) - Borehole, casing, and open interval information - Discharge - Site remarks - Lithology • Data obtained as a set of \*.rdb files that were loaded into an Microsoft Access database

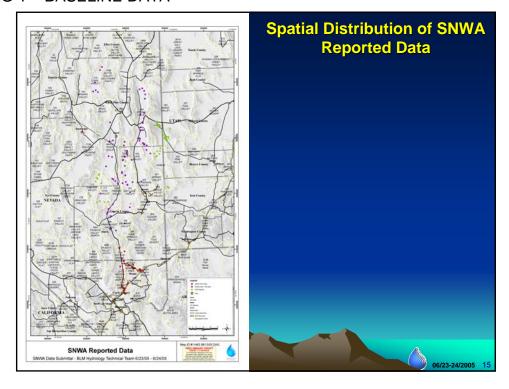


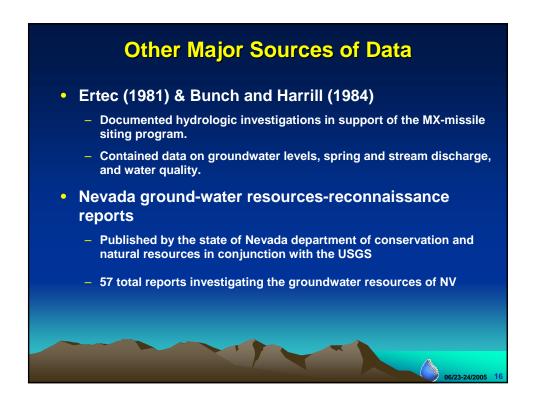




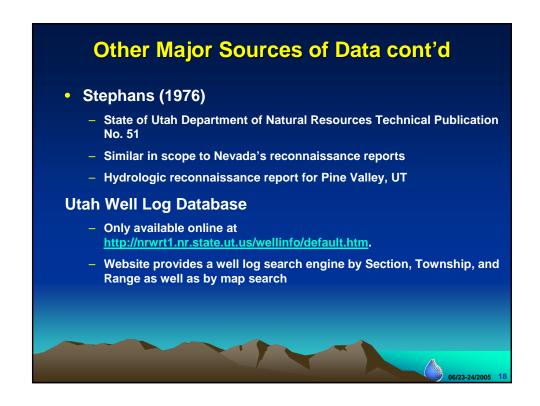


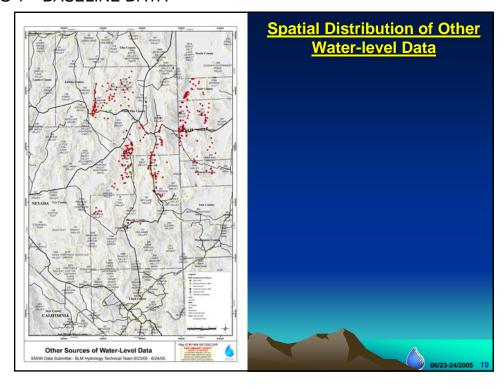


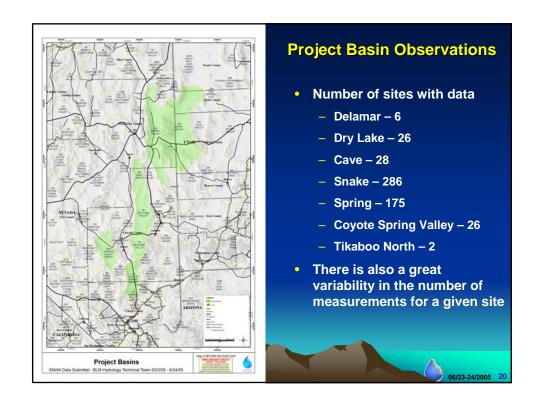


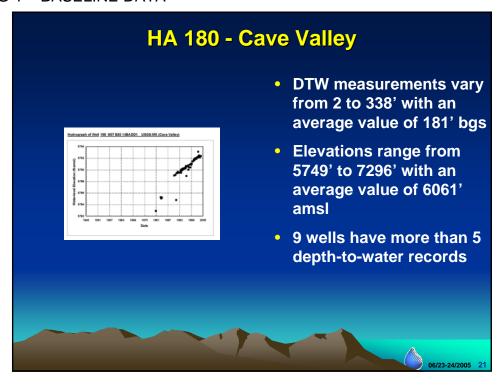


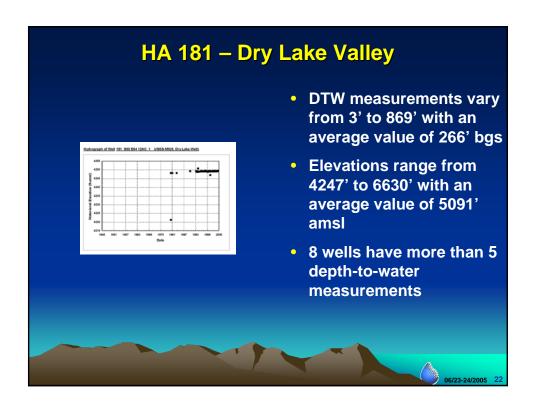
# Other Major Sources Data cont'd • McKay and Kepper (1988) - Analyzed over 100 wildcat oil and gas records - Drill-stem tests analyzed for hydraulic conductivities and transmissivities - Depth-to-water data obtained from the drill-stem test data • Thomas and others (1986) - Map of groundwater-levels in the great basin region of Nevada, Utah, and adjacent states - Depth-to-water measurements estimated from locations on map

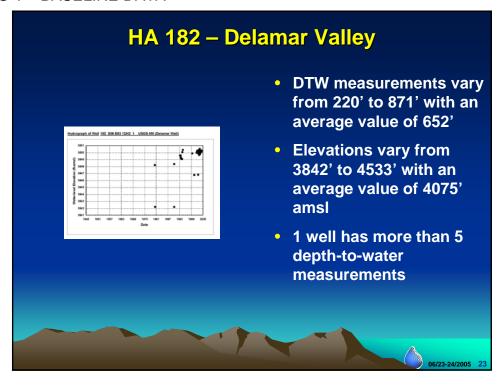


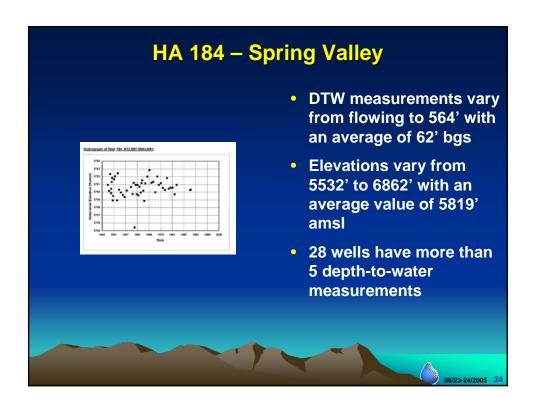


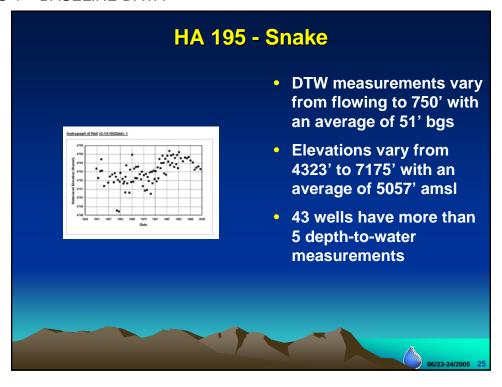


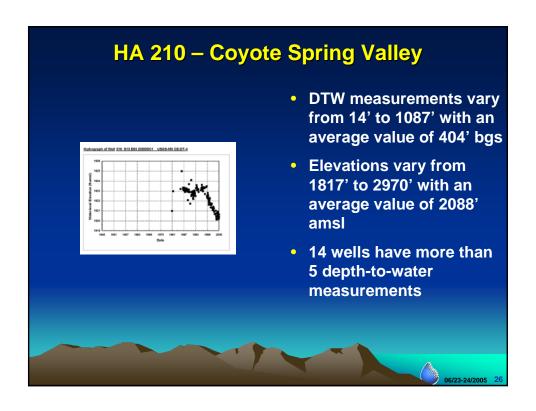












# Data Considerations Sparse data in certain hydrographic areas Limited historical data for many locations Location inaccuracies Depth-to-water measurements from the same reference point? Differing levels of confidence in reported values (NWIS vs. NDWR) Duplicate locations and depth-to-water measurements

