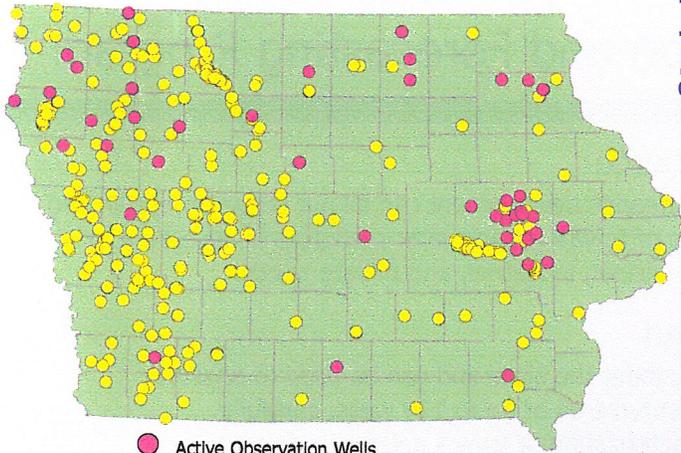
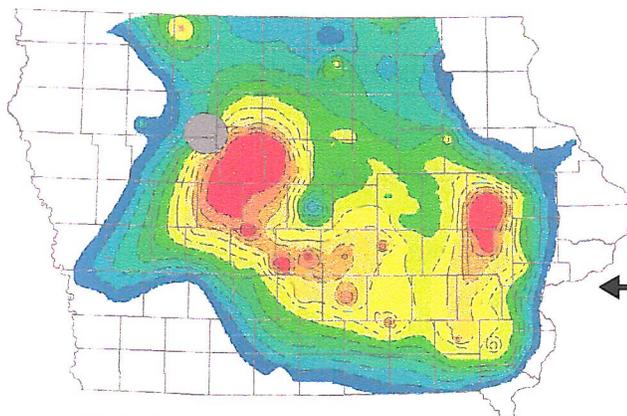
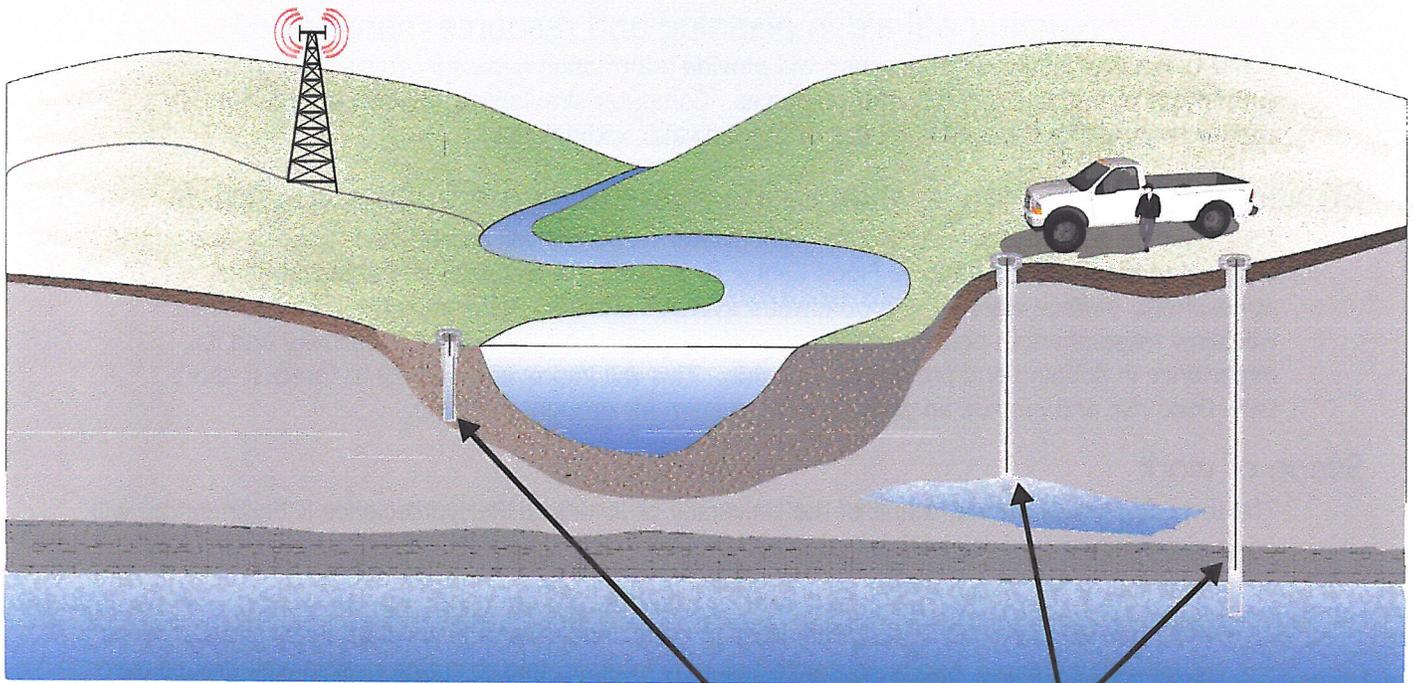


Iowa Groundwater Observation and Forecasting Program



- Active Observation Wells
- Other Existing Observation Wells

Current Iowa groundwater observations are inadequate. However, numerous existing observation wells can be used to expand upon available information. Restoration and sampling of wells carefully selected to ensure a complete and accurate characterization of Iowa's aquifers will inform appropriate use of this valuable and limited resource.



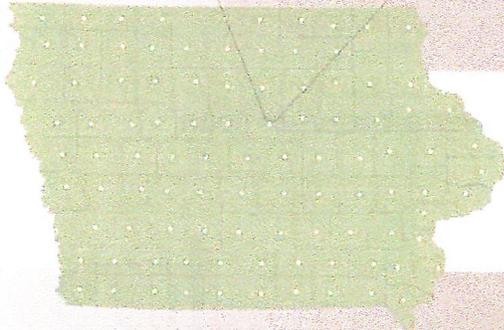
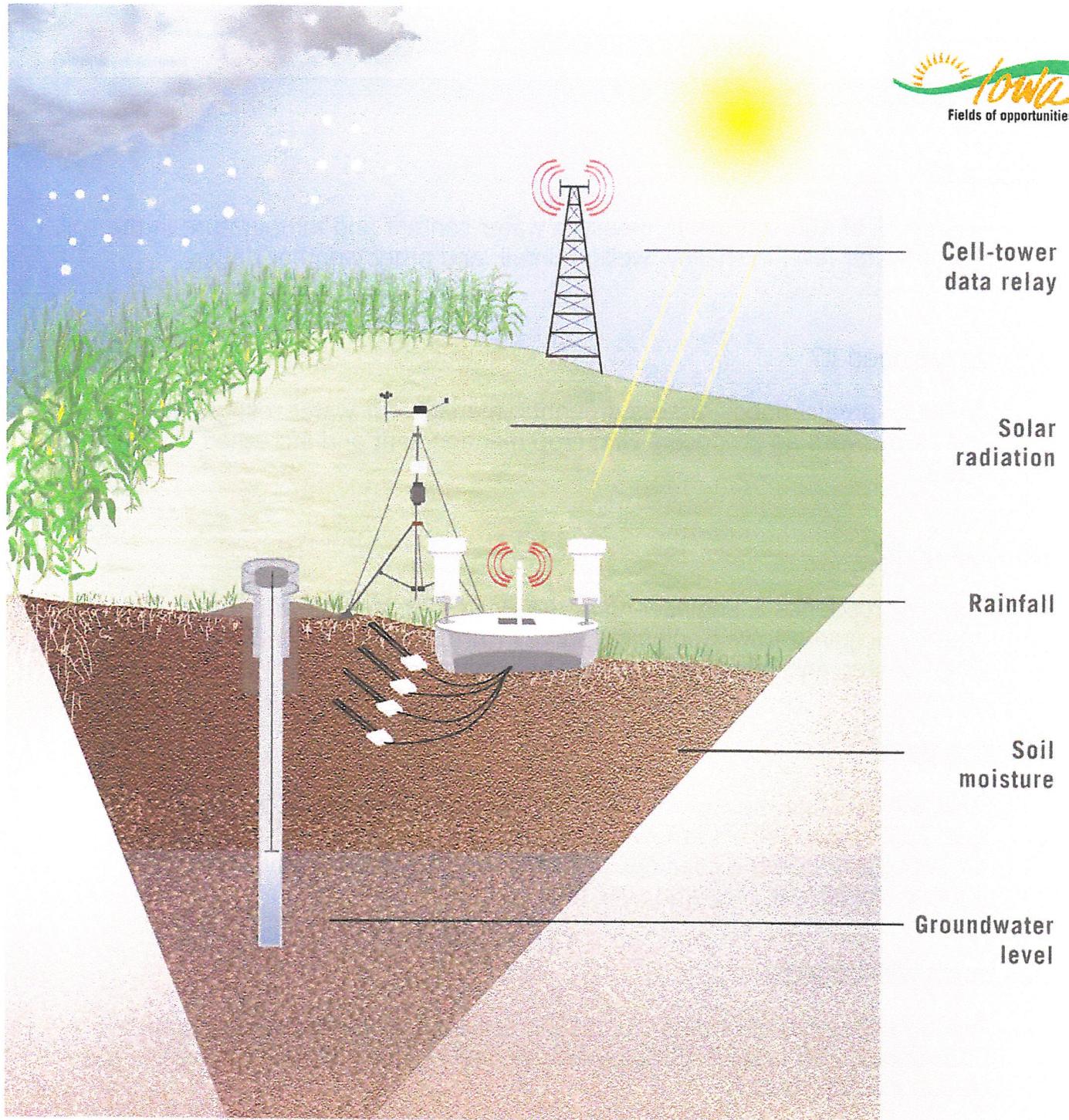
0 20 40 60 80 100 120 140 160 180 200 feet

Simulated decrease in Cambrian-Ordovician Aquifer water levels through 2034

Alluvial aquifers are well connected to rivers and streams, and respond quickly to changes in rainfall. Automated measurement systems can frequently capture changes in water levels and transmit them to a central database.

Deep aquifers respond slowly to changes in precipitation. They are slowly replenished and are susceptible to overuse. Quarterly manual measurements are sufficient to capture trends in their water levels.

Observations will provide information necessary to create computer simulations of regional groundwater levels. Computer simulations will be used to forecast aquifer changes and aid in planning and management of groundwater resources.



Iowa Hydrologic Network

To Analyze and Predict Floods and Droughts, Soil Moisture, Ground Water Levels, and Improve Crop Yields