

GOAL OF WATER SUPPLY PLANNING: TO PROVIDE ADEQUATE SUPPLIES OF CLEAN WATER FOR ALL USERS AT REASONABLE COST

## **KEY QUESTIONS:**

- What are the sustainable yields of the aquifers and rivers?
- What will be the impacts of additional withdrawals on i) existing wells, ii) rivers, streams, wetlands, ecosystems, and iii) aquifers?
- How resistant to drought and possible climate change are water supplies?
- What are the management options supply and demand?\_\_\_\_\_\_







- BACK OF THE ENVELOPE CALCULATIONS

- Current groundwater withdrawals within the cone of depression are about 30mgd.
- For each mgd withdrawn over last 50 years the head has decreased about 2.3 feet at a site west of Champaign.
- Approx. +18mgd (total = 48mgd) can be withdrawn from the cone of depression west of Champaign before head descends to top of the aquifer at this site.
- +1.7% per year = +18mgd (total = 48mgd) in about 32 years.
- Other potential impacts include further dewatering the Glasford aquifer; further changing regional flow in aquifer; reducing flow in rivers; well interference.



