

**LOWER SUSQUEHANNA REGIONAL WATER RESOURCES COMMITTEE
REGIONAL PRIORITIES (Revised 2/14/05)**

Water Supply:

Water Quantity

Inventory available sources of groundwater and surface water

ID opportunities for conjunctive use of groundwater and surface water

Mass Balance (USGS 'budget') of total water incoming in a watershed vs. outgoing

Assess Current Storage *capacity and ID alternative means to enhance supply*

Evaluate land use impacts on water quantity:

- Reduce impacts *on recharge*
- ID diversion of water out of watersheds by POTWs, etc.*

Identify Source characteristics *that affect quantity:*

- Geologic formations, sink holes
- Seasonal variations*

Identify instream flow needs

Water Quality

Ensure minimum quality to protect designated uses

Prevent pollution from non-point and point sources:

- Ag, mining, land disposal of wastes, spills, etc.*
- POTWs and other point sources*
- Stormwater

Evaluate land use impacts on water quality

Improve nutrient/pollutant reduction technology and alternative treatment options

Identify sampling and testing programs and data availability *on existing water sources*

Identify Source *quality* characteristics:

- Geologic vulnerability *to pollution* (sink holes)
- Natural physical & chemical characteristics and biological habitat*

Identify source water protection plans

Water Demand:

Identify current water needs *and future water needs:*

- Quantify minimum instream flow needs
- Consumptive vs. non-consumptive use
- Withdrawal uses vs. non-withdrawal uses

Identify uncertainties and assumptions of projected uses

Identify need for Storage capacity:

- Understand and balance demand fluctuations

Managing Supply vs. Demand:

Explore Water conservation strategies:

- Reduce water loss
- Improve efficiency of water use*

Identify CWPAs and Shortfalls

Determine Safe-yields

ID and Assess alternative potable sources of supply

ID Alternative uses for, or re-use of, non-potable water

Promote Source Water Protection:

- Educate and *promote* the implementation of source water protection plans
- Assess and measure the effectiveness of the source water protection plans

Evaluate inter-basin transfers and consumptive uses

Identify and coordinate institutional and regulatory water agencies/authorities

Coordinate land use planning with water resource planning

Explore regional and watershed-based water resource planning