

**Lower Susquehanna Water Resources Regional Committee  
List of Issues and Data Gaps**

*Issues*

1. Loss of measuring river flow/stream flow staff gauges due to budget finance issues/USGS is supplemented by private sector.
2. Groundwater recharge....suburban growth changing runoff characteristics
3. How/what is relationship for future water use SRBC vs. State of PA
4. Access to data by various private/public organizations for planning purposes
5. Water quality
6. Groundwater regulations
7. Groundwater domain is least regulated, yet being sought in higher frequency, as a source of supply- must figure out minimum regulatory requirements to protect public health and manage gw, well driller regulations, closeouts, etc.
8. Investigating water quantity and quality issues in an integrated fashion
9. Land use/water resource ties; increasing stress on recharge areas without adequate planning for land use/zoning policies.
10. Increasing nitrate levels in a number of groundwater and surface supplies
11. Using water to drive decisions about urban growth
12. Realistic releases during drought conditions
13. Agriculture use and recharge
14. Hydroelectric power use
15. Stormwater recharge
16. Sewage effluent reuse
17. Lack of conservation
18. Agriculture recharge/use (manure application is a recharge component)
19. Wastewater reuse/recharge (AMD- water- reuse- i.e. noncontact cooling etc.)
20. Alternative technologies to discourage direct discharge (treatments to improve water quality so that reuse/recharge is encouraged)
21. Land use connection with water needs/use/budgets (sprawl- lack of planning)
22. Prevention of Pollution emphasis to decrease needs to treat, wastewater infiltration vs. direct discharge = stormwater sloughing etc/erosion
23. Coordinate land use planning with water resources
24. Consumptive use by power plants, golf courses and other irrigation, out-of-basins transfers, etc.
25. Increased stormwater runoff and decreased groundwater recharge due to increase in impervious surfaces and discharge of most stormwater to streams
26. Water loss and inefficient use of public water supplies

27. How TMDL's eventually get developed- to deal with nutrient loadings to Bay
28. Interbasin transfer/Consumptive use between Susquehanna and Delaware
29. Critical recharge areas for groundwater need definition (limestone vs. non-limestone basins)
30. Population stable statewide yet shuffling about in "sprawl" affecting water resources
31. Safe yield vs. quantity
32. Water quality and/or pollution abatement
33. Release rates
34. Water source protection
35. Agricultural water uses
36. Agricultural recharge
37. Groundwater availability
38. How will we get the data to make good regional decisions about how much water we have, how much we use and how much we'll need in the future?
39. Concern over sprawl and development affecting baseflow of streams
40. Concern over need to accelerate recharge and infiltration to regional aquifers

### *Data Gaps*

1. Groundwater quality information from private wells
2. Better stream quality information for refining "stream classifications"
3. Water use data (specifically focused on agricultural, commercial use and consumptive use information)
4. Recharge rates (empirical) at watershed level, geological/landcover correlations
5. Trend analysis of water quality data in subsurface domain
6. Safe yield information is spotty and conflicting for surface water and especially groundwater
7. Aquifer quantitative information (recharge vs. baseflow)
8. Sole source aquifers
9. Do we have reliable and enough groundwater?
10. Do we know how quickly if at all, we are depleting regional aquifers?
11. How much water is being lost daily or yearly due to leaks in distribution systems and what is being done about it?
12. Agricultural use
13. Industrial use
14. Consumptive use
15. Accurate safe yields
16. "Executive Summary" of pertinent information gathered in old SWP

17. Compiled information sources: SRBD/DRBC, Capital Region Water Board Report, Land use- water quality connection, source water assessments, river conservation plans----Problem- lots of data, but no one place to find it
18. Existing alternative technologies that address water quality
19. GIS mapping to combine POTWs in a watershed, water use in a watershed
20. Exact locations of aquifers (size, yield, availability)
21. Adequate groundwater level monitoring wells
22. Agricultural usage
23. Groundwater availability and quantity
24. Agricultural use statistics
25. Industrial use statistics
26. Sources and uses
27. DEP recommended data