Kentucky's Source Water Protection Program

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Kentucky Division of Water Watershed Management Branch

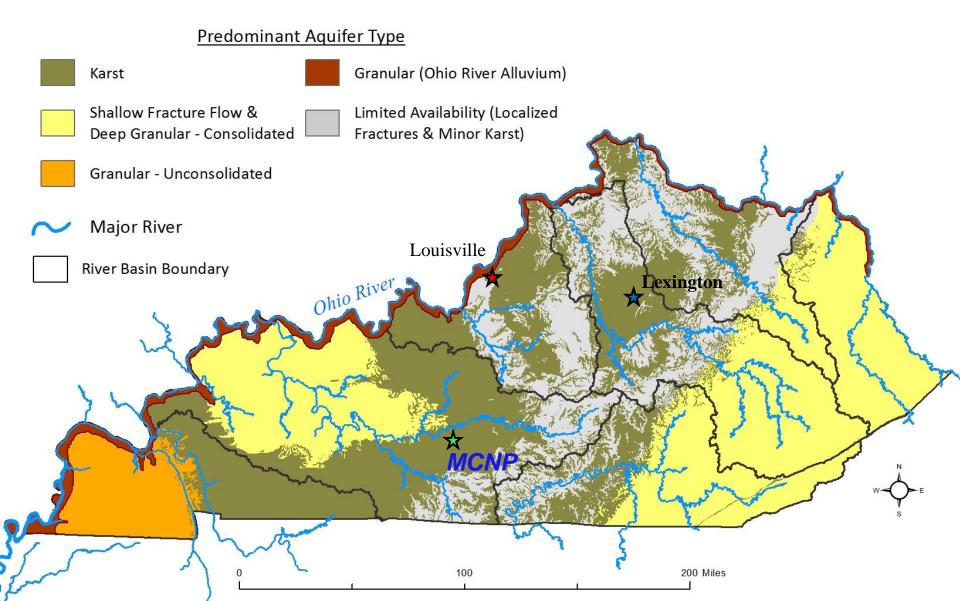
KFB Water Management Working Group/KY Water Resources Board April 26, 2017



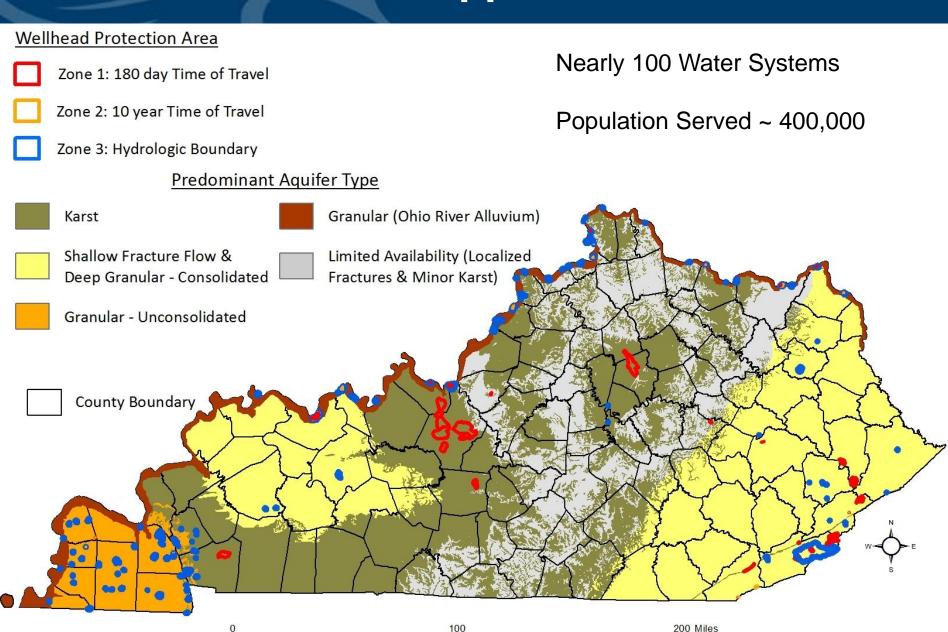
Source Water Protection Planning

- Select Planning Committee community representation
- <u>Delineate Protection Zones</u> contributing areas of Water Supply Source(s)
- <u>Contaminant Source Inventory</u> identify potential contaminant sources in protection areas
- Develop Management Strategies regulatory, BMP, E & O
- Contingency Planning drought, contamination, alternatives
- Implementation management strategies, review & update plan

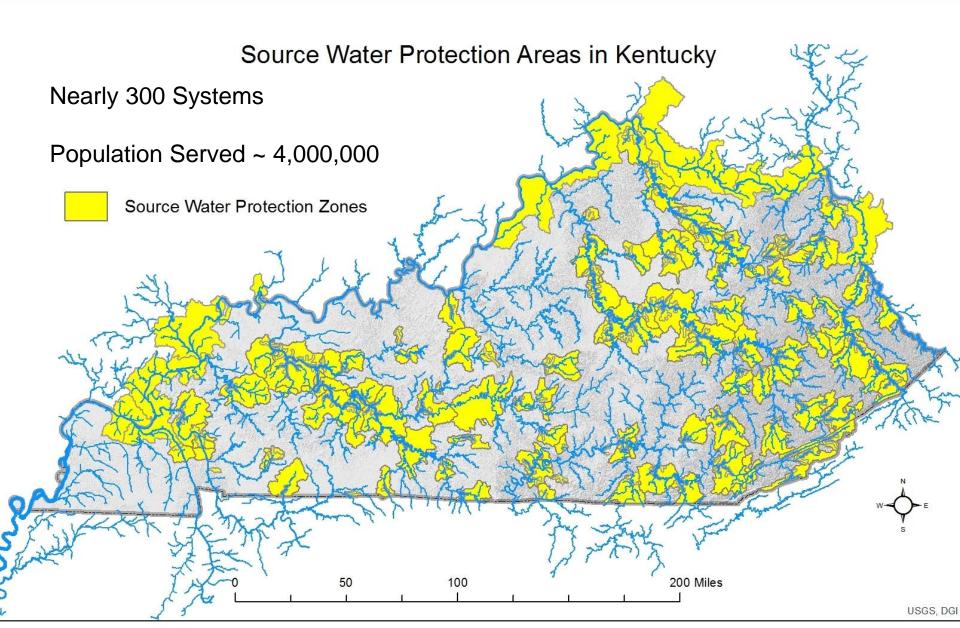
Generalized Hydrography of Kentucky



KY Public Water Supplies - Groundwater



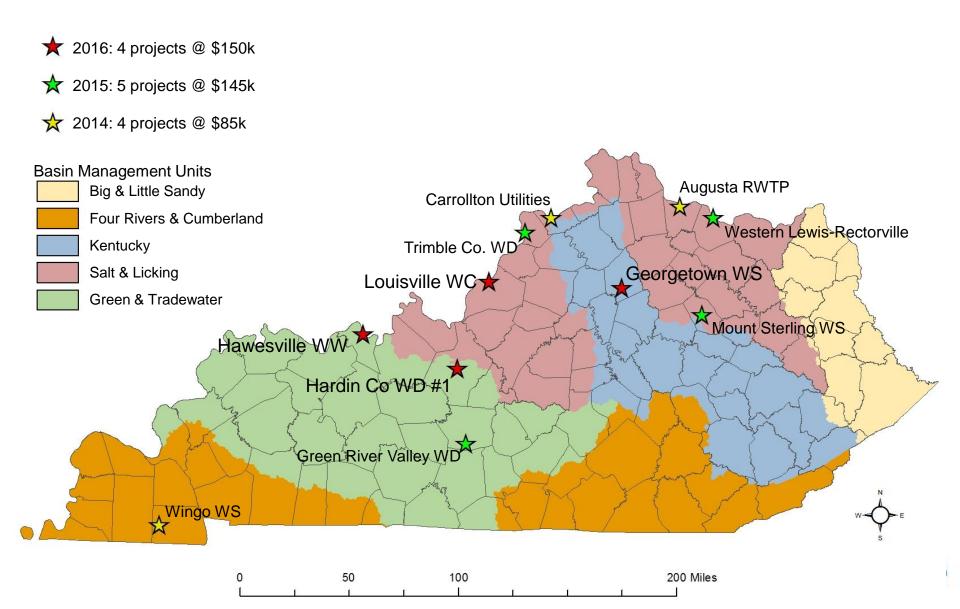
KY Public Water Supplies – Surface Water



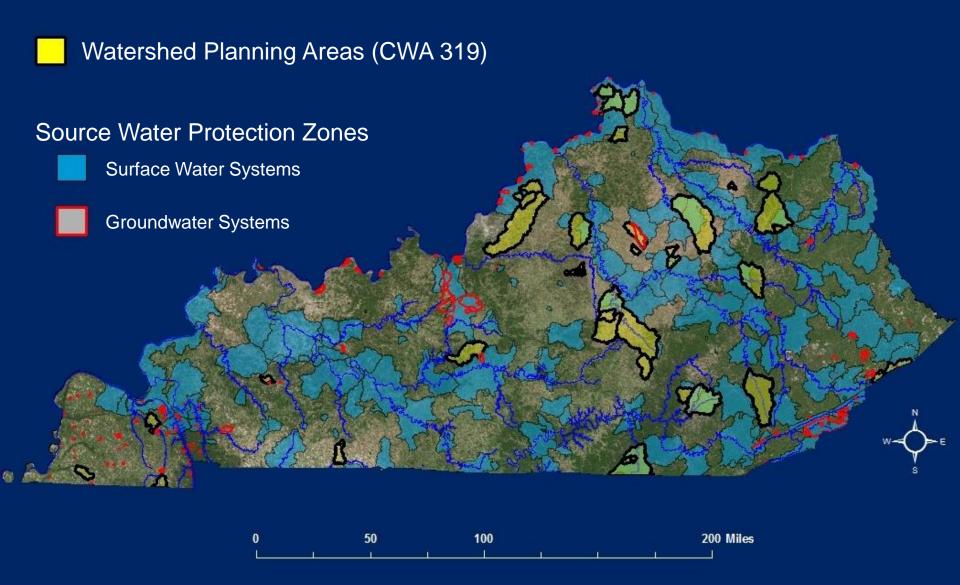
Moving Forward with SWP in KY

- Source Water Protection Assistance Program
- Collaboration and Partnerships
 - CWA 319(h) funding and Watershed Plans
 - Area Development Districts Water Management Councils
 - Individual Water Systems
 - Other agencies
- Evaluate/Update SWP for Surface Water Systems
 - Focus on Management and Implementation
- Promote programs and assistance at workshops and meetings throughout Kentucky

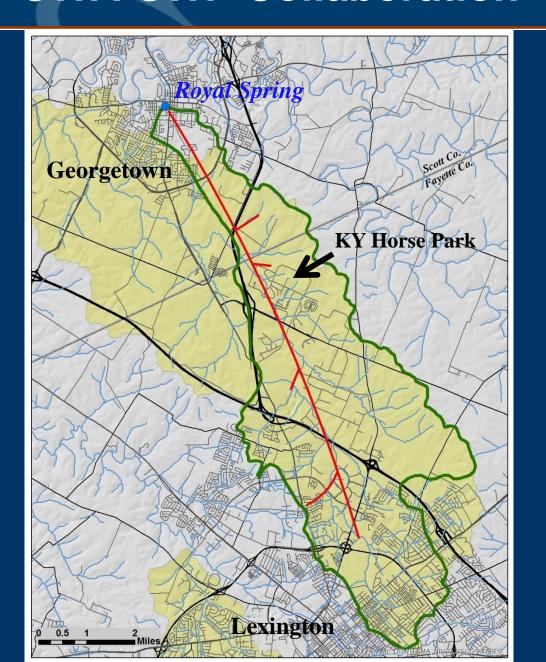
Source Water Protection Assistance Program Projects



Collaboration and Partnerships

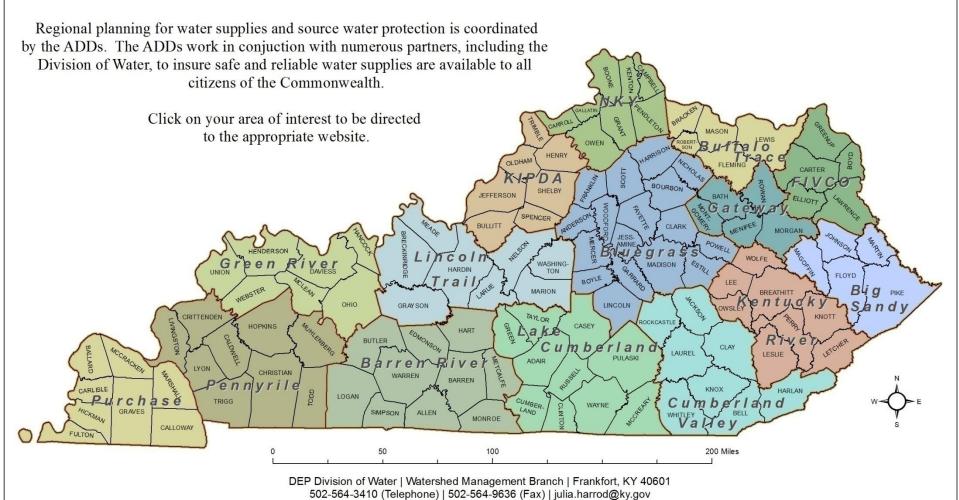


CWA-SWP Collaboration



Collaboration and Partnerships

Water Supply Planning and Kentucky Area Development Districts (ADD)

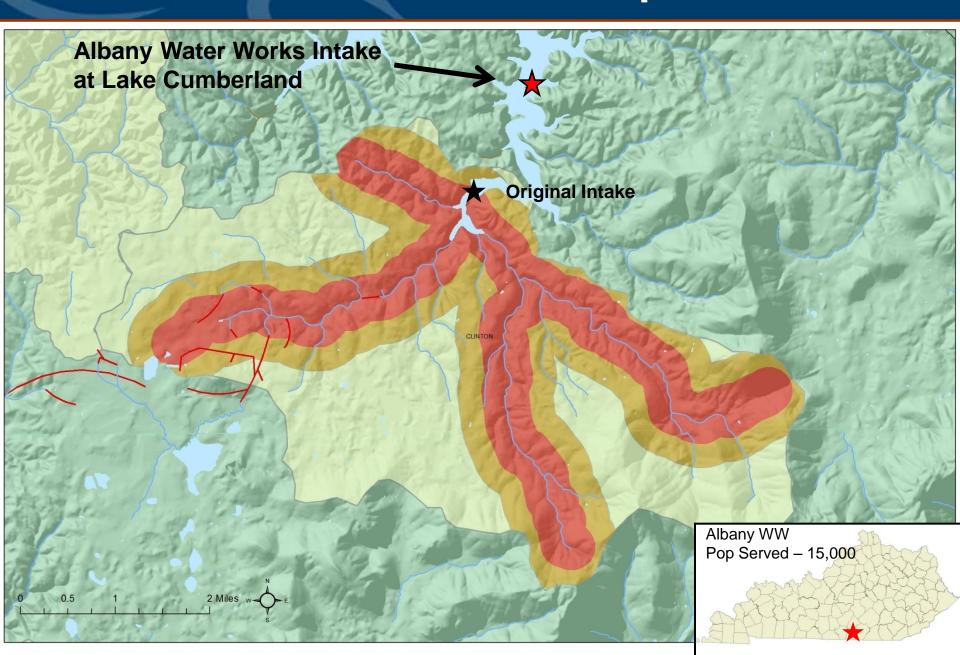


Collaboration and Partnerships

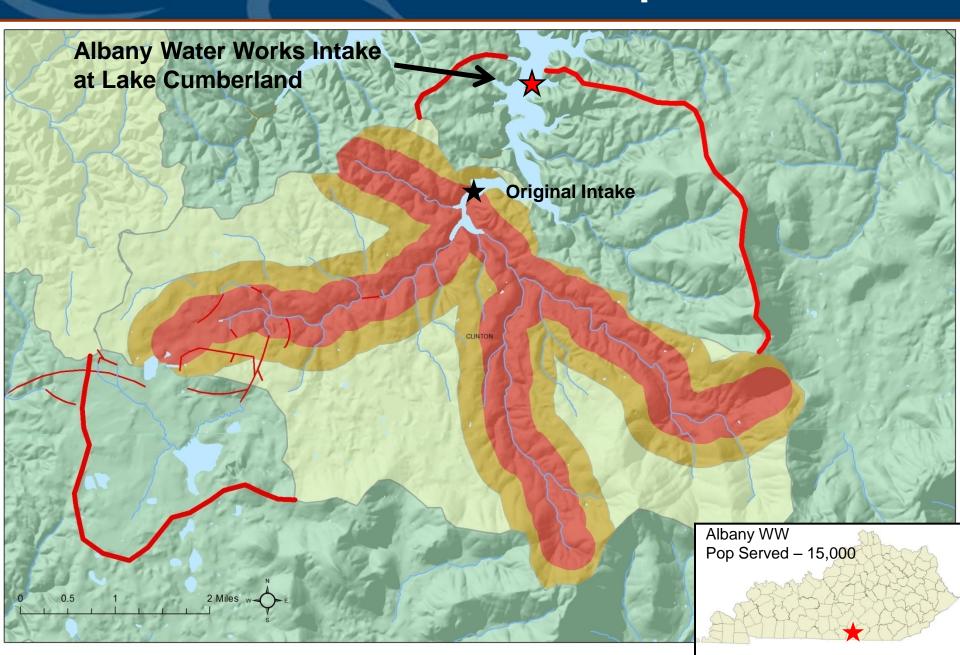
Other government and non-government agencies

- EPA and Region 4 states
 - SWP meeting to share ideas and discuss programs
- Association of State Drinking Water Administrators
 - Information exchange
- Drinking Water Advisory Council
 - Direct interaction with regulated community
- Kentucky Rural Water Association
 - SWP plan development and water system assistance
 - Meetings, trainings and workshops

SWP Evaluation and Updates



SWP Evaluation and Updates



Monitoring

- Drinking water supply assessments
 - Adequacy and reliability
- Water withdrawal permitting relies on similar info
 - Monthly withdrawal reporting to DOW
- Limited collaboration with KGS Groundwater Level Observation Network

Analysis of Water Use and Information Needs

- Water system production and demand info
- Technical assistance to rural water systems
 - Often in tandem with KRWA
- Planning for expansion and future demand
- Public awareness and involvement are keys to SWP success

Water Resource Development and Tech Assistance

- Efficiency programs for new facilities/infrastructure may have some utility
- Technical assistance for SWP may not directly apply, but we are an available resource

Drought Mitigation and Response

- Part of coordination between water users
- Part of coordination and information exchange within and between agencies
- Technical assistance for SWP may not directly apply, but we are an available resource

Communications & Outreach

- Major part of our efforts water suppliers, communities, local/regional governments
- Collaboration and partnerships
- SWP is an element of comprehensive water management planning

Water Resource Development Act

Section 7104 – SWP implementation is an eligible use of SRF

Closing Thoughts

- Recent national and local events highlight need for SWP
 - Elk River, WV spill (MCHM)
 - HABs on Ohio River (other DW sources)
 - State/Local land use proposals
 - Increased treatment costs
- Successful SWP through partnerships:
 - Government (federal, state and local)
 - Water Systems
 - Communities
- Unique drinking water supplies require individualized assessment, planning and implementation

Questions?

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