

Kentucky Update to the ORSANCO Technical Committee

June 8, 2010



Monitoring

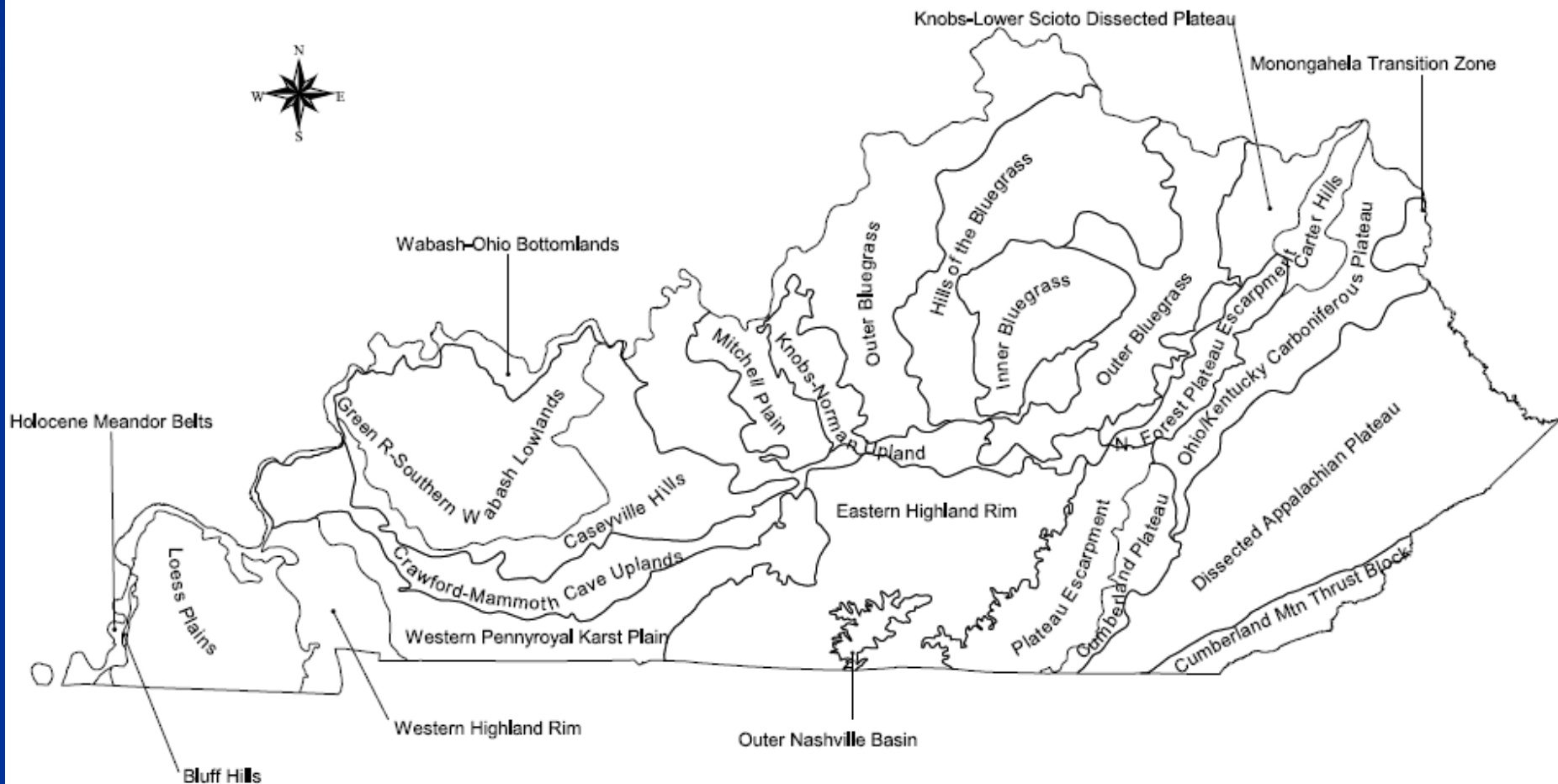
- Current water-year (April-March) monitoring is focused in the upper Cumberland and 4-Rivers basin management unit
 - Probabilistic
 - Targeted

Monitoring, Cont.

- Intensive monitoring in the Pennyroyal region for nutrient criteria development
 - Ecoregion 71e – Western Pennyroyal Karst Plain and 71g - Eastern Highland Rim

Ecoregions of Kentucky

Figure 2.1-1. Level IV Ecoregions of Kentucky.



Monitoring, cont.

- Boatable waters nutrient criteria development study
 - Implemented collection of monthly and bimonthly water quality sampling at 33 boatable stations located in all major river basins

Coal Mine Permits

- Increased scrutiny and requirements for coal permits
 - Additional chemical and biological monitoring required
 - Whole toxicity quarterly
 - Proposed instream specific conductivity of $<400 \mu\text{S}/\text{cm}$ is to be maintained
 - An increase above $400 \mu\text{S}/\text{cm}$ will result in increased monitoring
- An increase above $500 \mu\text{S}/\text{cm}$ as a monthly average for two consecutive quarters permittee will be required to decrease the footprint of the permitted mine area and apply additional BMPs or alternately treat the effluent or cease mining

Coal Mine Permits, cont.

- Now the number is talked about being 300 $\mu\text{S}/\text{cm}$ in the permit for effluent
- OSRWs due to federally listed T & E species
 - Minimum 100 ft buffer on all tributaries and no instream disturbances
 - Background monitoring prior to any watershed land disturbance and continue through life of the permit
 - Two years for OSRWs w/ T & E species and one year without

Questions?

