

KANSAS (REGION 7)

A Snapshot of Kansas' TMDL Program (August 2008)

The Basics

Key Agency/Department & website

Kansas Department of Health and Environment
www.kdheks.gov/water/
www.kdheks.gov/tmdl/

TMDL Program Structure/Placement

Housed in Bureau of Water, Watershed Planning Section

By the Numbers

Number of Impaired Waters 1,101

Number of Causes of Impairment 1,616

Top Five Causes of Impairment

1. Metals (other than mercury)
2. Cause Unknown–Impaired Biota
3. Organic Enrichment/Oxygen Depletion
4. Pesticides
5. Salinity/TDS/Sulfates/Chlorides

Approximate Number of TMDLs Developed Annually 12-15

Total Number of TMDLs Approved (1995 to present, incl. any est'd by EPA) 2,708

Total Number of TMDLs Approved in 2005/2006/2007 603/167/81

2008 303d/Integrated Report Submission Status (Date) 4/1/2008

Approximate Number of FTEs Working on TMDL Issues 5

TMDLs

EPA Under Consent Decree to Develop TMDLs? N (completed)

Broad-Scale? (e.g., watershed, multi-jurisdictional, etc.) Y

Non-TMDL Options

Use of Non-TMDL Options to Address Impaired Waters? Y

Example(s) 4b; NPDES Permits

Funding

Approximate Annual Budget for TMDL Program \$500,000

Primary Source(s) of TMDL Program Funding federal 106 & 319 funds; state water plan funds

TMDL Implementation

TMDL Implementation Required? Y

Innovations

Example(s) of Any Innovative Approach(es) Employed

now using local "Watershed Restoration and Protection Strategy" (WRAPS) groups to oversee implementation efforts in specific watersheds across the state

TMDLs that Represent a Particular Achievement

--Spring River (metals)

http://www.kdheks.gov/tmdl/download/spring_metals.pdf

--Arkansas River (chlorides)

www.kdheks.gov/tmdl/la/2006_Ark_Hutch_to_MaizeCl.pdf

--Watershed Management Plan for Atrazine in the Little Arkansas River Watershed (4b)

http://www.kdheks.gov/tmdl/la/Lit_Ark_CAT4B_10-12-06.pdf

Barriers

Top Three Barriers to TMDL Development

1. inadequate high flow WQ data to calibrate models
2. intra-watershed monitoring data
3. lack of definitive linkage between nutrients and impairments

Top Three Barriers to TMDL Implementation

1. reaching a density of BMPs over a watershed to impact WQ
2. uneven participation in WQ programs
3. uncertainty of effectiveness of reduction strategy