

**2006 KANSAS
SECTION 303(d)
LIST OF
IMPAIRED
SURFACE
WATERS**

December 20, 2006

2006 KANSAS SECTION 303(d) LIST OF IMPAIRED SURFACE WATERS

Pursuant to Section 303(d) of the Federal Clean Water Act, the following tables and maps indicate the surface waters in the twelve river basins of Kansas which have been found to be impaired by pollutants and are in need of a Total Maximum Daily Load (TMDL). Section 303(d) of the Clean Water Act requires States to identify those “water quality limited segments” (surface water bodies) by which technology based limits, more stringent effluent limits and other pollution control requirements are not stringent enough to implement their applicable water quality standards.

Once a waterbody is listed, in what is now referred to as Category 5, the State must establish a TMDL for that water within a specified time in order to attain the water quality standards upon implementation. Current EPA guidance suggests the specified time to address the impairment, via a TMDL, be no longer than 8-13 years. A Total Maximum Daily Load is the maximum amount of the impairing pollutant that can enter the water without causing a violation of its water quality standards. Kansas has developed TMDLs for impaired surface waters in each of the State’s 12 river basins. KDHE is now embarking on its second round of TMDL development in the Marais des Cygnes, Missouri, Neosho, Verdigris and Walnut basins. For the purposes of this 303(d) list, Kansas has identified certain water bodies and their impairments as high priority for TMDL development over 2006 – 2008. Those waters are indicated by bold font within the tables for the Marais des Cygnes and Missouri basins (2006-2007) and Neosho, Verdigris and Walnut basins (2007-2008). The development priorities for these waters were established through analysis of their water quality and discussions with Basin Advisory Committees and Watershed Restoration and Protection Strategy projects within the five river basins.

The remaining seven basins have their impairments designated as low priority because the current TMDL development cycle will not address their basin waters. Current KDHE plans call for TMDL development to cycle through the twelve basins on a five year basis, similar as what was done during the 1999-2006 period under the 1998 Court Decree. Therefore, the 2008 Section 303(d) list will emphasize the impairments of the Smoky Hill – Saline, Solomon, Upper Republican and Kansas – Lower Republican river basins; the 2010 list will emphasize the Upper and Lower Arkansas, Cimarron, Marais des Cygnes and Missouri river basins; and so forth.

In a separate document, waters that were previously listed in 2004 but are no longer impaired (Category 2) or waters that have insufficient information to determine if impairments are present (Category 3) are identified. Those Category 3 waters will have information collected within the next 2-3 listing cycles so that an appropriate listing decision may be made. The Category 2 waters list allows for tracking the disposition of certain listed waters during the transition from the 2004 and 2006 Section 303(d) lists.

Another document indicates those waters that were previously listed but now are being addressed by TMDLs (Category 4A) or some alternative control or management plan (Category 4B). This list, represents the largest inventory of assessed waters, and explains why the current Section 303(d) list is fairly short. These Category 4 waterbodies remain impaired until such time that sufficient implementation of their TMDLs or alternative control plan achieves their water quality standards.

In some situations, an analysis has indicated that some form of pollution, not pollutants, is likely causing the impairment (Category 4c). Federal regulations define pollution as “the man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water” (section 502(19)). In some cases, the pollution is caused by the presence of a pollutant and a TMDL is required. In other cases, pollution does not result from a pollutant and a TMDL is not required.

The major evaluation for “delisting” waters, i.e.; moving waters from Category 4 to Category 2, will be done in the development of the 2012 Section 303(d) list.

A document providing the methodology of data analysis for listing decisions in developing this list is also available from KDHE at the TMDL website.

A series of three public hearings on this 2006 Kansas Section 303d List of Impaired Waters were held October 24-26, 2006. Attendance at the three hearings was light with no testimony presented on the draft Section 303d list at the three public hearings. The three hearings will be held in the vicinity of the five basins where the State intends to develop TMDLs over 2006-2008 (Ottawa, Neodesha & Topeka). Written comments came in regarding the 2006 Section 303(d) List and were considered in finalizing the list.

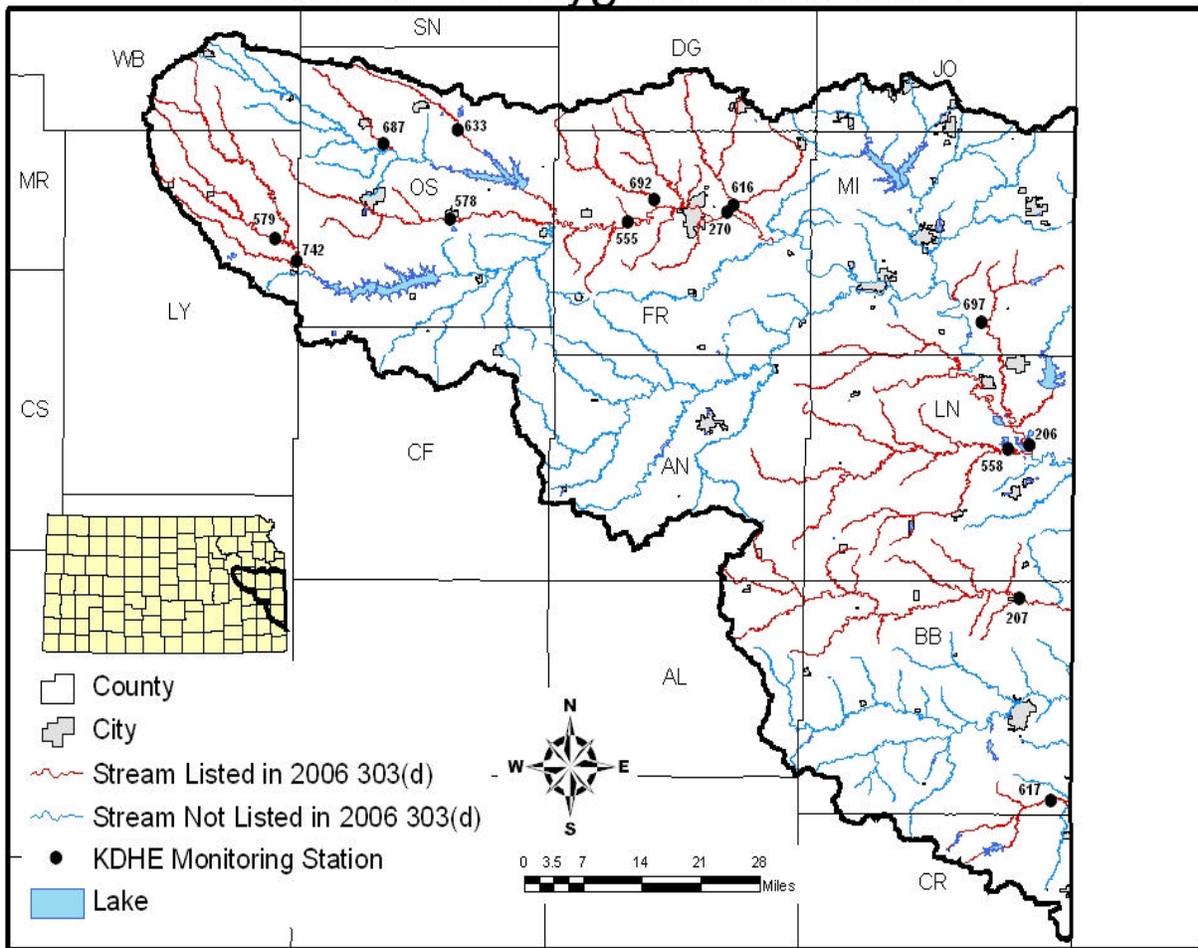
The basin-specific sections of the 2006 Section 303d List of Impaired Waters was presented and discussed with the Basin Advisory Committees of the five basins where the State intends to develop TMDLs over 2006-2008. Discussions with those BACs, who oversee the development of Basin Sections, including High Priority TMDLs, under the *Kansas Water Plan*, led to adjustments in the priorities of certain listed waterbodies and their impairments. The meetings with the BACs were as follows: Marais des Cygnes – November 29; Missouri – December 1; Walnut – December 6; Verdigris – December 7; Neosho – December 8.

MARAIS DES CYGNES BASIN

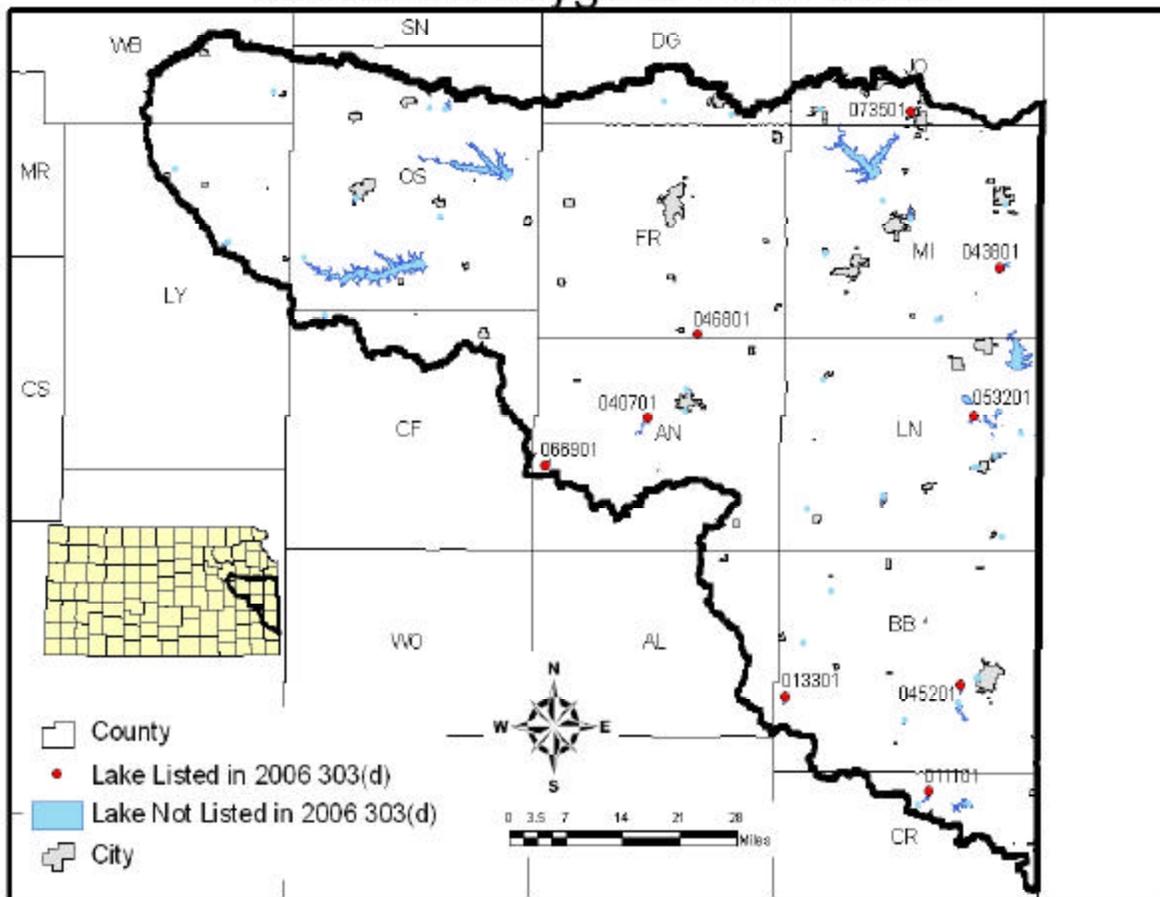
CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

Impaired Watershed/Lake	Pollutant	2006-2008		Waterbody Type	Monitoring Station	HUC 8	Counties
		Priority for Development					
UPPER MARAIS DES CYGNES SUBBASIN							
142 Mile Creek near Reading	Atrazine	Medium		Stream	579	10290101	LY
Marais des Cygnes River below Ottawa	Biological	Medium		Stream	270	10290101	FR
Marais des Cygnes River below Ottawa	Acute Copper	Medium		Stream	270	10290101	FR
Ottawa Creek	Acute Copper	Medium		Stream	616	10290101	FR
110 Mile Creek near Scranton	Atrazine	Medium		Stream	633	10290101	OS
Salt Creek near Lyndon	Atrazine	Medium		Stream	578	10290101	OS
Salt Creek near Lyndon	Dissolved Oxygen	Medium		Stream	578	10290101	OS
Marais des Cygnes River above Ottawa (Richter)	Chronic Copper	Low		Stream	555	10290101	FR
Appanoose Creek	Dissolved Oxygen	Low		Stream	692	10290101	FR
Switzler Creek	Atrazine	Low		Stream	687	10290101	OS
Switzler Creek	Acute Zinc	Low		Stream	687	10290101	OS
Cedar Creek Lake	Turbidity	Medium		Lake	40701	10290101	AN
Cedar Creek Lake	Eutrophication	Low		Lake	40701	10290101	AN
Richmond City Lake	Dissolved Oxygen	Medium		Lake	46801	10290101	FR
Westphalia Lake	Turbidity	Low		Lake	66901	10290101	AN
LOWER MARAIS DES CYGNES SUBBASIN							
Big Sugar Creek	Dissolved Oxygen	High		Stream	558	10290102	LN
Marais des Cygnes River near Trading Post	Acute Copper	Medium		Stream	206	10290102	LN
Middle Creek	Acute Zinc	Medium		Stream	697	10290102	MI, LN
Louisburg State Fishing Lake	Eutrophication	High		Lake	43801	10290102	MI
Pleasanton Reservoir	Eutrophication	Medium		Lake	44201	10290102	LN
Spring Hill Lake	Eutrophication	Low		Lake	73501	10290102	JO
Marais des Cygnes Wildlife Area	Arsenic	Medium		Wetland	53201	10290102	LN
Marais des Cygnes Wildlife Area	Acute Copper	Medium		Wetland	53201	10290102	LN
Marais des Cygnes Wildlife Area	Chronic Lead	Medium		Wetland	53201	10290102	LN
LITTLE OSAGE RIVER SUBBASIN							
Little Osage River	Acute Copper	Low		Stream	207	10290103	LN, BB
Little Osage River	Dissolved Oxygen	Low		Stream	207	10290103	LN, BB
MARMATON RIVER SUBBASIN							
Drywood Creek	Dissolved Oxygen	High		Stream	617	10290104	BB, CR
Bourbon County State Fishing Lake	Eutrophication	High		Lake	13301	10290104	BB
Bourbon County State Fishing Lake	Dissolved Oxygen	High		Lake	13301	10290104	BB
Bourbon County State Fishing Lake	pH	High		Lake	13301	10290104	BB
Rock Creek Lake	Eutrophication	High		Lake	45201	10290104	BB
Rock Creek Lake	Dissolved Oxygen	High		Lake	45201	10290104	BB
Lake Crawford	Eutrophication	High		Lake	11101	10290104	CR

2006 303(d) Listed Streams in the Marais des Cygnes River Basin



2006 303(d) Listed Lakes in the Marais des Cygnes River Basin



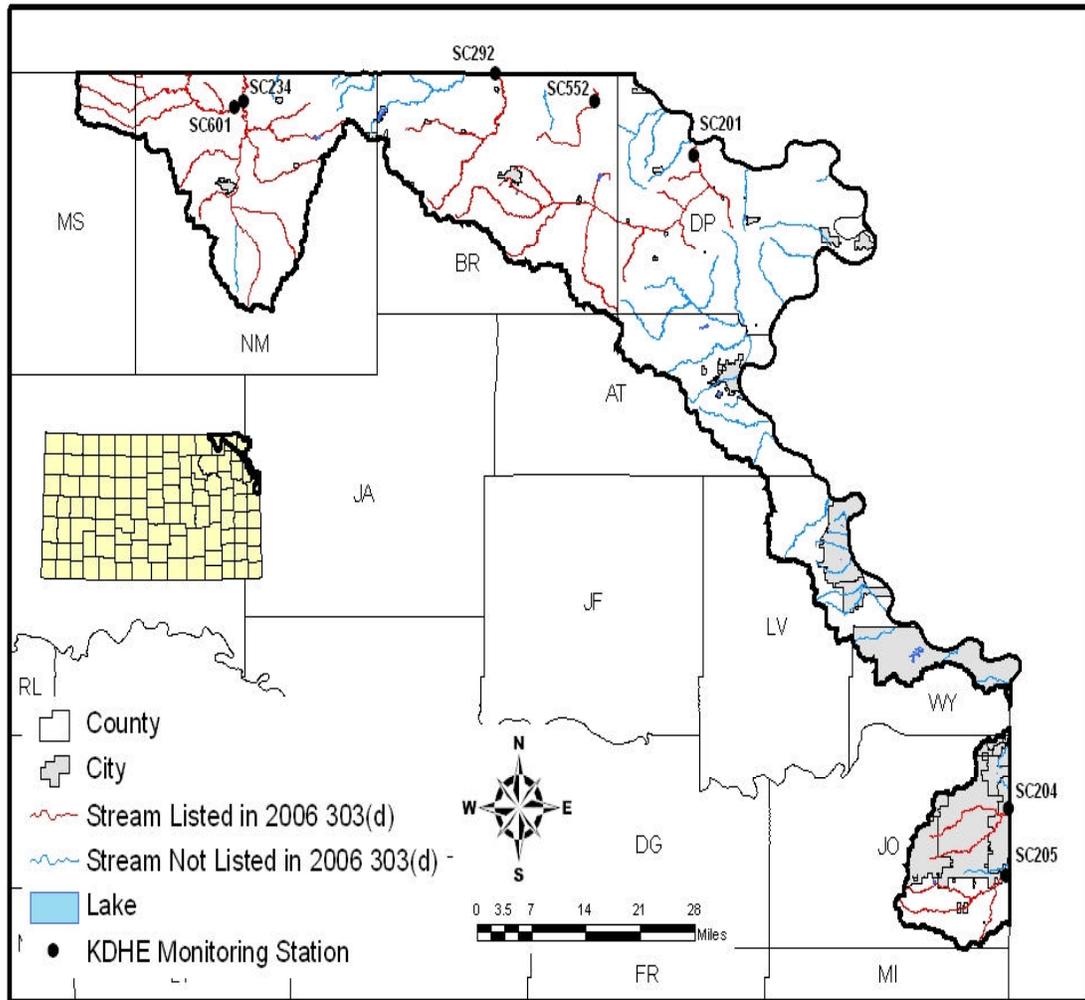
KDHE.BOW.WPS.091106

MISSOURI BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

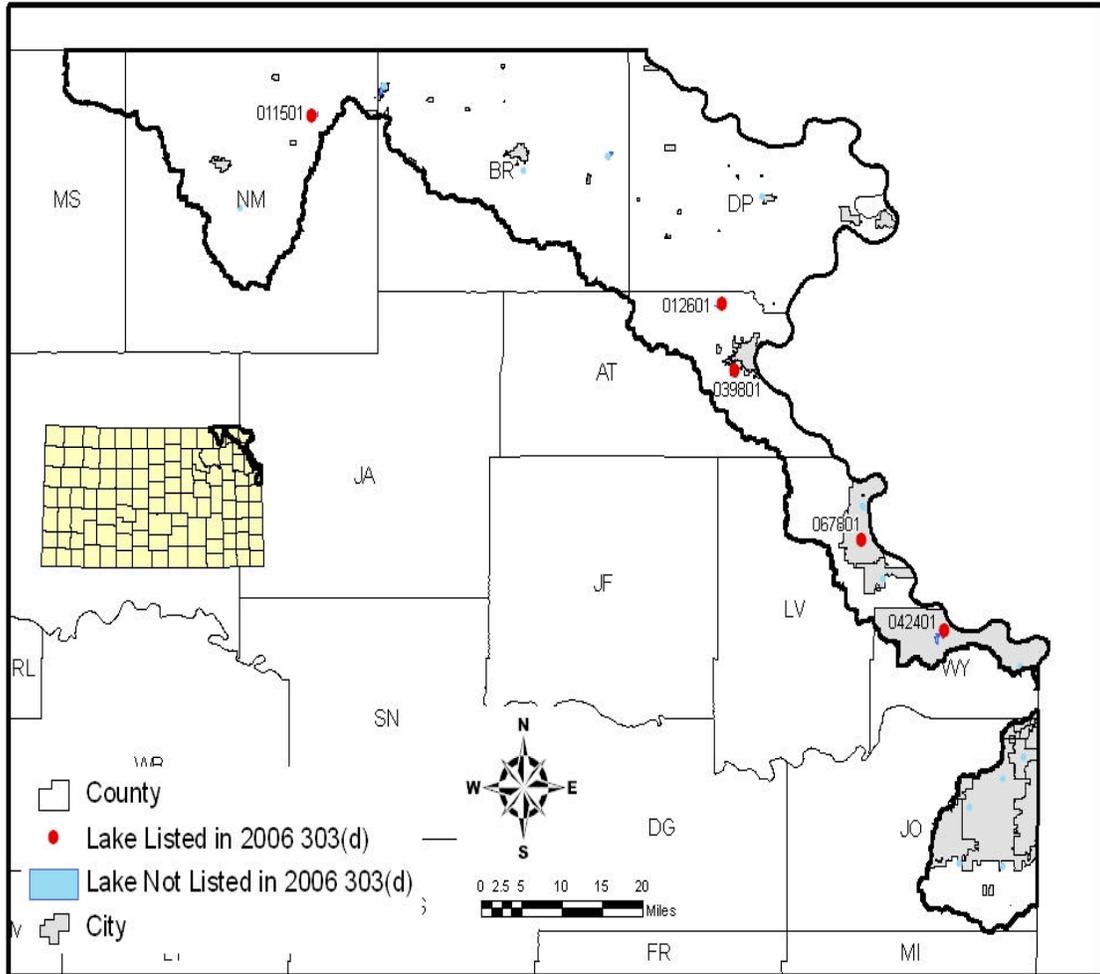
Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
TARKIO-WOLF SUBBASIN						
Wolf River	Biological	High	Stream	201(SB363)	10240005	DP
SOUTH FORK BIG NEMAHA SUBBASIN						
South Fork Big Nemaha River	Biological	High	Stream	234	10240007	NM
Turkey Creek	Atrazine	High	Stream	601	10240007	NM
Turkey Creek	Acute Copper	Medium	Stream	601	10240007	NM
Sabetha City Lake	Atrazine	Low	Lake	11501	10240007	NM
BIG NEMAHA SUBBASIN						
Walnut Creek	Atrazine	Medium	Stream	292	10240008	BR
Roys Creek	Acute Zinc	Medium	Stream	552	10240008	BR
Roys Creek	Chronic Copper	Low	Stream	552	10240008	BR
INDEPENDENCE - SUGAR SUBBASIN						
Wyandotte Co. Lake	Eutrophication	High	Lake	42401	10240011	WY
Atchison Co. State Fishing Lake	Atrazine	Medium	Lake	12601	10240011	AT
Atchison Co. State Fishing Lake	pH	Medium	Lake	12601	10240011	AT
Atchison Co. State Fishing Lake	Chronic Copper	Medium	Lake	12601	10240011	AT
Jerry's Lake	Eutrophication	Low	Lake	67801	10240011	LV
Atchison City Lake	Eutrophication	Low	Lake	39801	10240011	AT
LOWER MISSOURI - CROOKED SUBBASIN						
Blue River	Dissolved Oxygen	High	Stream	205	10300101	JO
Blue River	Mercury	Medium	Stream	Fish Tissue	10300101	JO
Indian Creek	Nitrate	High	Stream	204	10300101	JO

2006 303(d) Listed Streams in the Missouri River Basin



KDHE.BOW.WPS.091306

2006 303(d) Listed Lakes in the Missouri River Basin



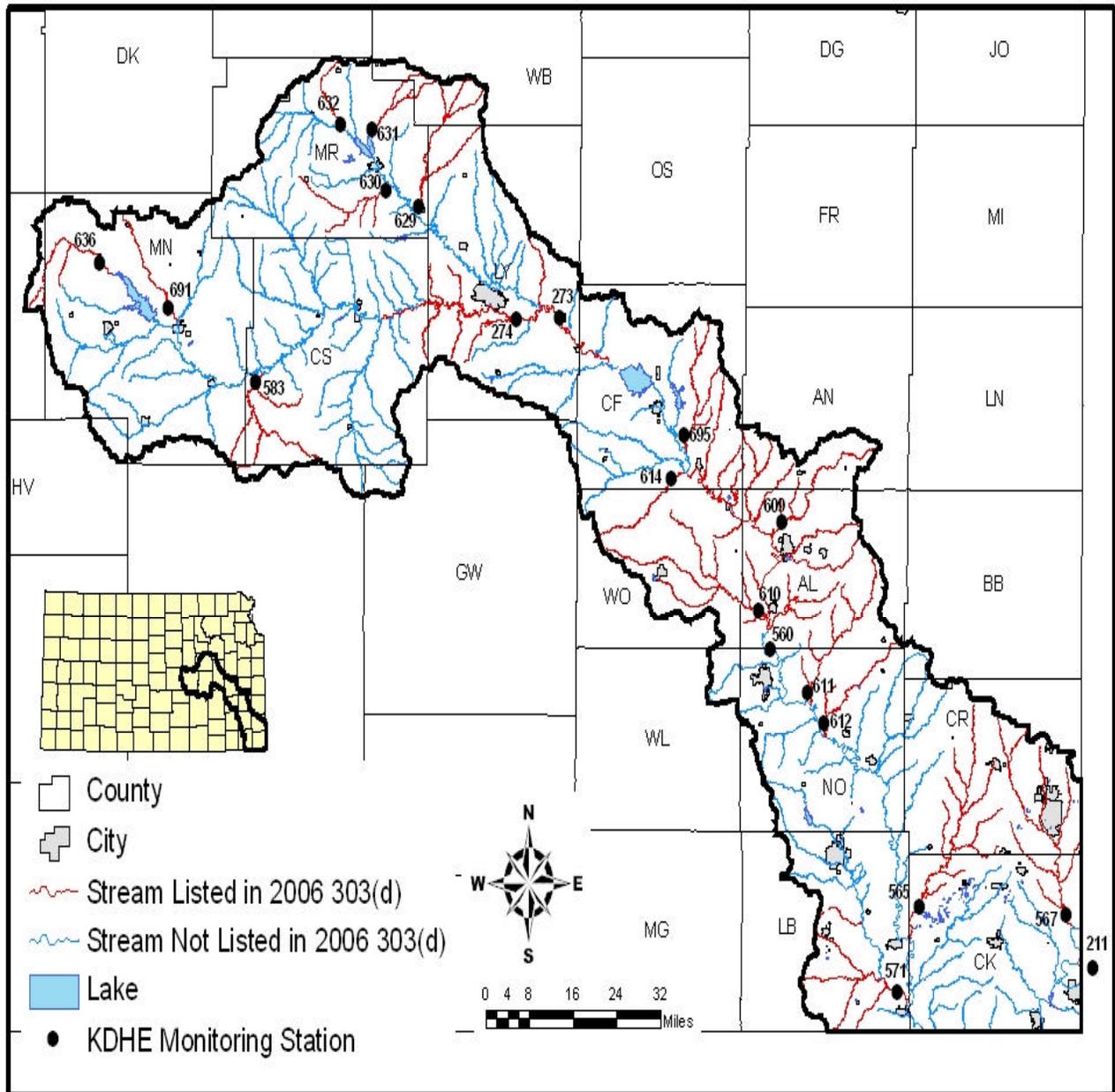
KDHE.BOW.WPS.091306

NEOSHO BASIN

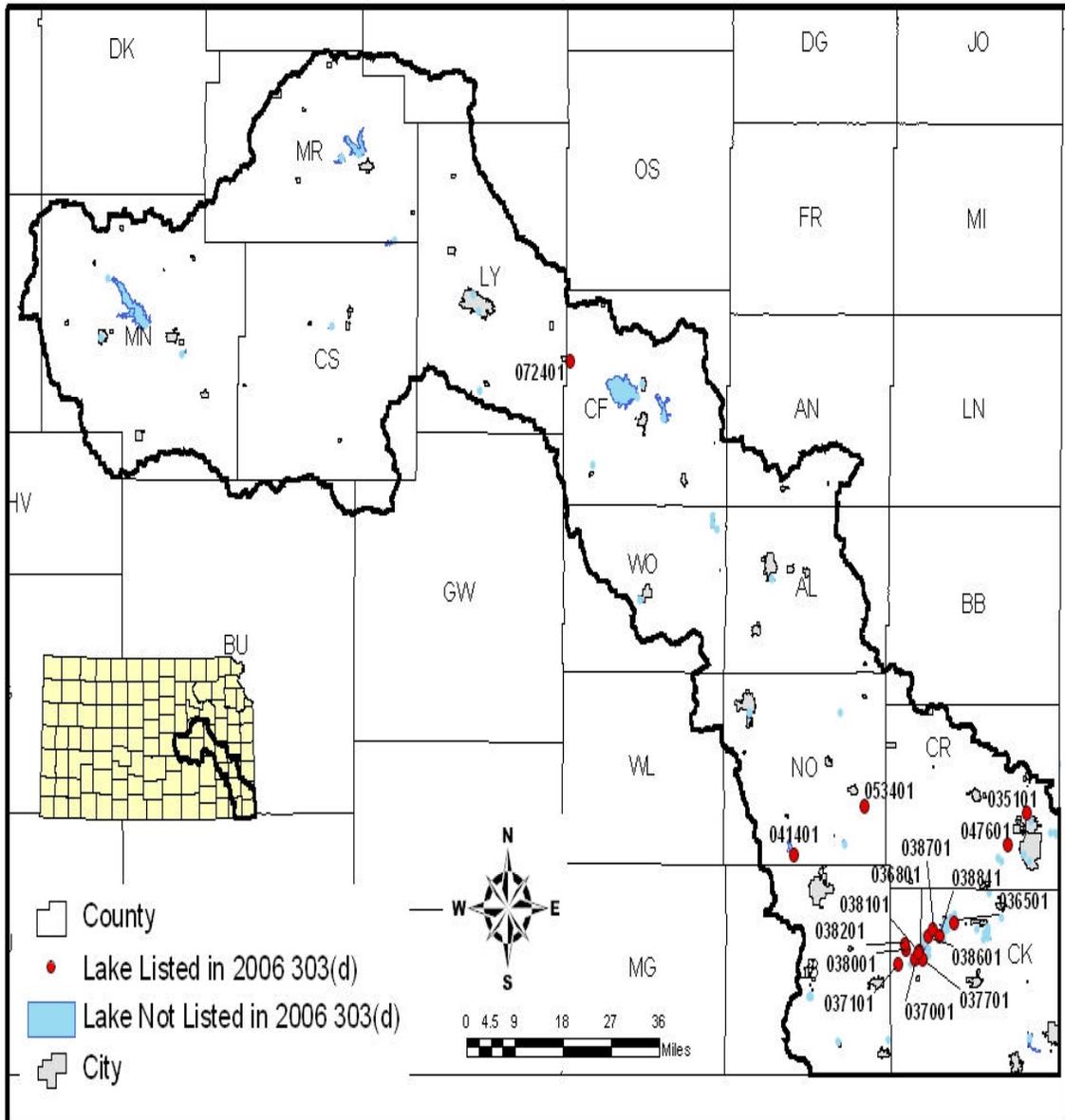
CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
NEOSHO HEADWATERS						
Neosho River at Neosho Rapids	Biological	Medium	Stream	273	11070201	LY
Rock Creek	Dissolved Oxygen	Medium	Stream	629	11070201	MR,LY,WB
4 Mile Creek	Acute Zinc	Medium	Stream	630	11070201	MR
Lairds Creek	Acute Zinc	Medium	Stream	632	11070201	MR
Munkers Creek	Dissolved Oxygen	Medium	Stream	631	11070201	MR,WB
Flint Hills National Wildlife Refuge	Siltation/Turbidity	Medium	Wetland	72401	11070201	CF
UPPER COTTONWOOD						
Mud Creek	Atrazine	Medium	Stream	691	11070202	MN
Cedar Creek	Acute Copper	Medium	Stream	583	11070202	CS
Cedar Creek	Acute Zinc	Medium	Stream	583	11070202	CS
North Cottonwood River	Acute Zinc	Medium	Stream	636	11070202	MN,MP
Mud Creek	Sulfate	Low	Stream	691	11070202	MN
LOWER COTTONWOOD						
Cottonwood River at Emporia	Biological	Low	Stream	274	11070203	LY
UPPER NEOSHO						
Long Creek	Dissolved Oxygen	High	Stream	695	11070204	CF
Neosho River above Chanute	Acute Zinc	Medium	Stream	560	11070204	AL
Deer Creek	Acute Zinc	Medium	Stream	609	11070204	AL,AN
Owl Creek	Acute Zinc	Medium	Stream	610	11070204	AL,WO
Turkey Creek	Acute Copper	Medium	Stream	614	11070204	CF,WO
Turkey Creek	Acute Zinc	Medium	Stream	614	11070204	CF,WO
Big Creek	Dissolved Oxygen	Low	Stream	611	11070204	AL,NO
MIDDLE NEOSHO						
Canville Creek	Chronic Copper	Medium	Stream	612	11070205	NO
Lower Labette Creek	Acute Copper	Medium	Stream	571	11070205	LB
Lightning Creek	Temperature	Low	Stream	565	11070205	CR,CK
Mined Land Lake #19	Eutrophication	High	Lake	36501	11070205	CK
Mined Land Lake #26	Eutrophication	High	Lake	37201	11070205	CK
Mined Land Lake #24	Eutrophication	Medium	Lake	37001	11070205	CK
Mined Land Lake #31	Eutrophication	Medium	Lake	37701	11070205	CK
Mined Land Lake #34	Eutrophication	Medium	Lake	38001	11070205	CK
Mined Land Lake #40	Eutrophication	Medium	Lake	38601	11070205	CK
Parsons Lake	Chronic Lead	Medium	Lake	41401	11070205	NO
Mined Land Lake #25	Eutrophication	Low	Lake	37101	11070205	CK
Mined Land Lake #35	Eutrophication	Low	Lake	38101	11070205	CK
Mined Land Lake #36	Eutrophication	Low	Lake	38201	11070205	CK
Mined Land Lake #41	Eutrophication	Low	Lake	38701	11070205	CK
Mined Land Lake #42 Wildlife Area	Siltation/Turbidity	Medium	Wetland	38841	11070205	CK
Neosho Wildlife Area	Acute Copper	Medium	Wetland	53401	11070205	NO
SPRING						
Cow Creek	Dissolved Oxygen	Low	Stream	567	11070207	CR,CK
Turkey Creek	Dissolved Oxygen	Low	Stream	211	11070207	CK
Mined Land Lake #22	Perchlorate	Medium	Lake	Fish Tissue	11070207	CK
Mined Land Lake #01	Eutrophication	Low	Lake	35101	11070207	CR
Mined Land Lake #06	Eutrophication	Low	Lake	47601	11070207	CR

2006 303(d) Listed Streams in the Neosho River Basin



2006 303(d) Listed Lakes in the Neosho River Basin



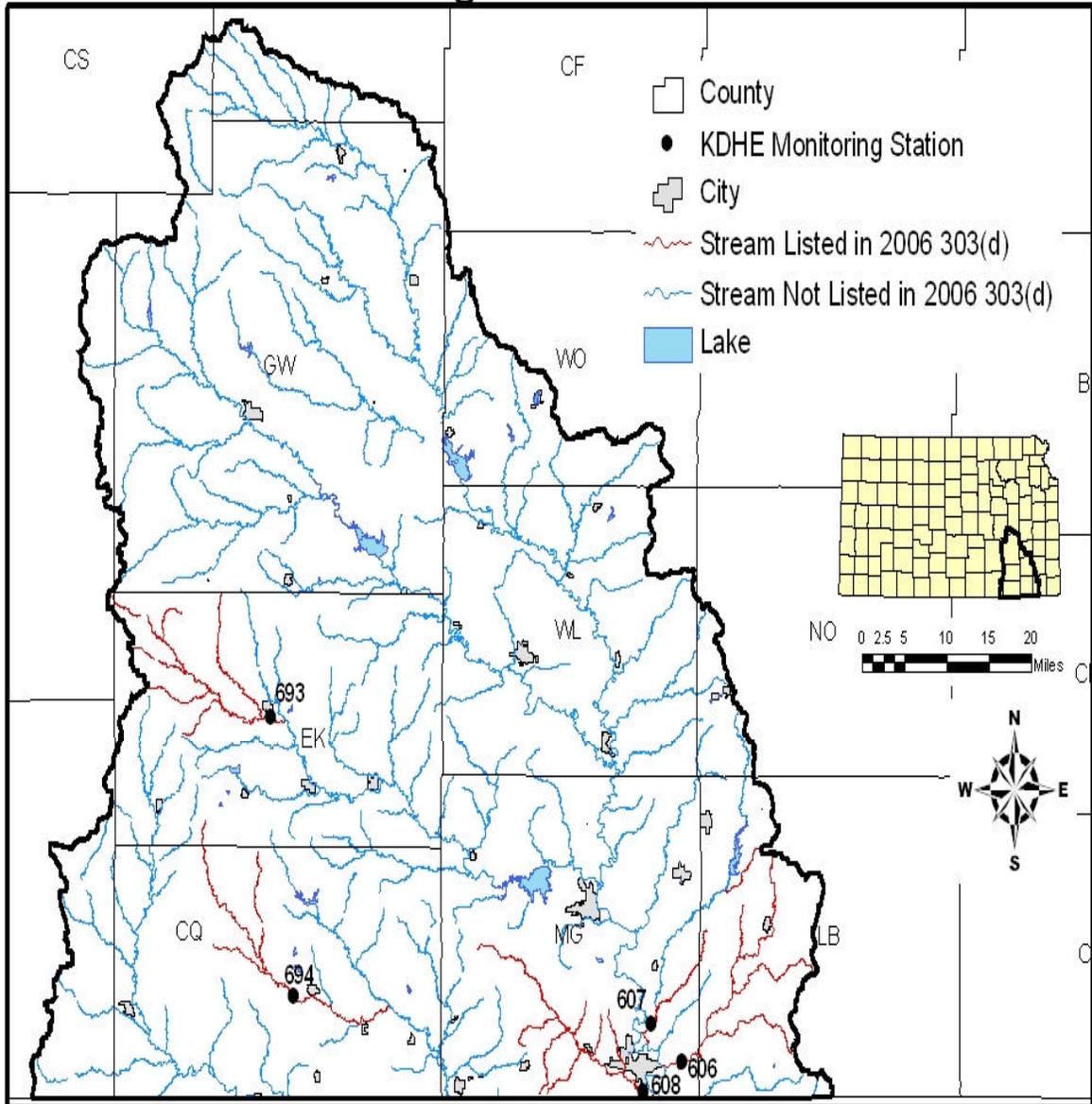
KDHE.BOW.WPS.092606

VERDIGRIS BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

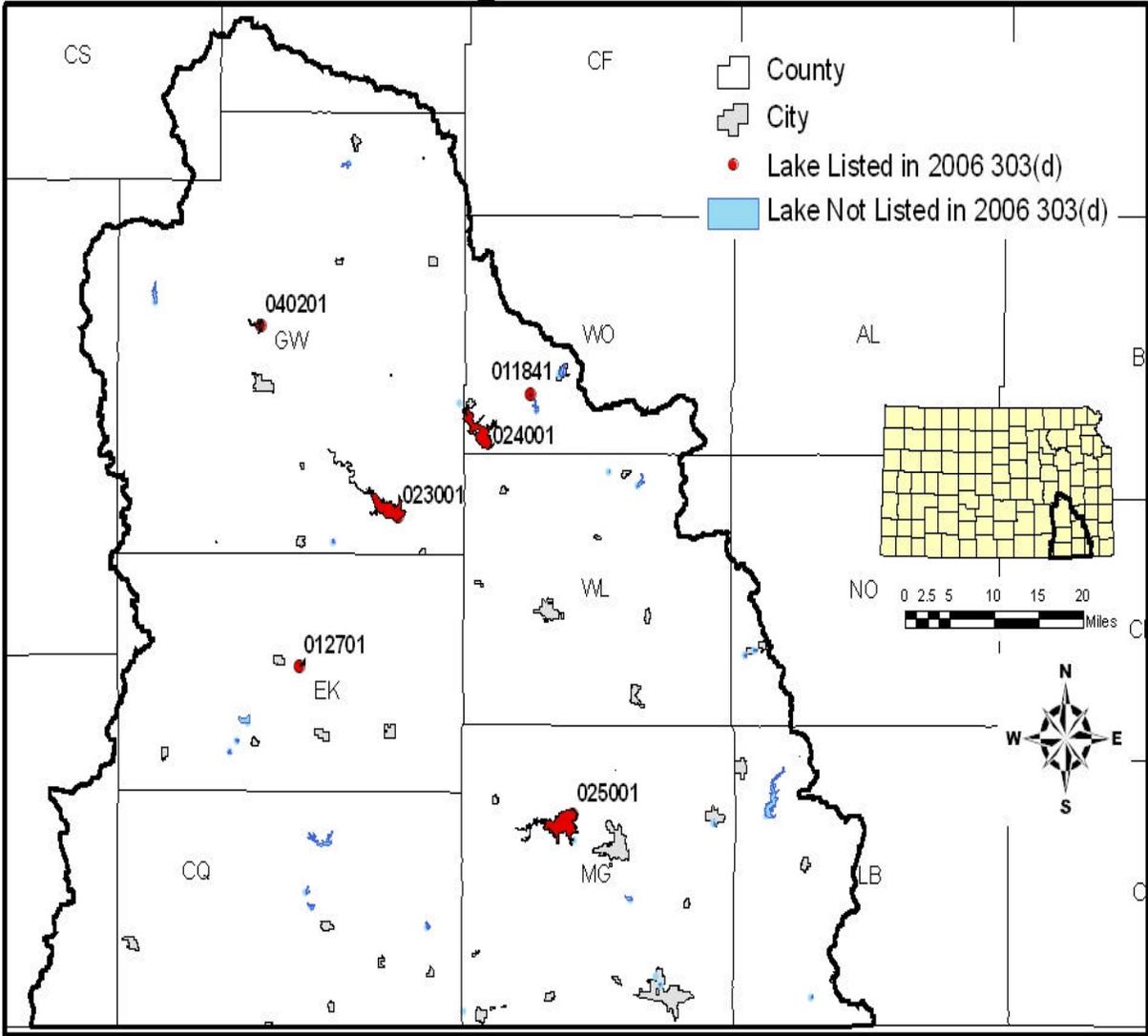
Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
UPPER VERDIGRIS SUBBASIN						
Toronto Lake	Eutrophication	High	Lake	24001	11070101	WO,GW
Toronto Lake	Dissolved Oxygen	High	Lake	24001	11070101	WO,GW
Toronto Lake	Siltation	High	Lake	24001	11070101	WO,GW
Eureka Lake	Siltation	High	Lake	40201	11070101	GW
Eureka Lake	Eutrophication	Medium	Lake	40201	11070101	GW
Woodson Co. Wildlife Area	Siltation	Medium	Wetland	11841	11070101	WO
Woodson Co. Wildlife Area	Dissolved Oxygen	Low	Wetland	11841	11070101	WO
FALL SUBBASIN						
Fall River Lake	Eutrophication	High	Lake	23001	11070102	GW
Fall River Lake	Dissolved Oxygen	High	Lake	23001	11070102	GW
Fall River Lake	Siltation	High	Lake	23001	11070102	GW
MIDDLE VERDIGRIS SUBBASIN						
Onion Creek	Acute Zinc	Medium	Stream	608	11070103	MG
Onion Creek	Chronic Copper	Low	Stream	608	11070103	MG
Big Hill Creek	Chronic Copper	Low	Stream	607	11070103	MG,LB
Pumpkin Creek	Chronic Copper	Low	Stream	606	11070103	MG,LB
Big Hill Lake	Eutrophication	High	Lake	23001	11070103	LB
ELK SUBBASIN						
Upper Elk River above Elk City Lake	Chronic Lead	Low	Stream	693	11070104	EK,MG
Elk City Lake	Eutrophication	High	Lake	25001	11070104	MG,EK
Elk City Lake	Siltation	High	Lake	25001	11070104	MG,EK
Elk Co. State Fishing Lake (Polk Daniels Lake)	Eutrophication	Low	Lake	12701	11070104	EK
CANEY SUBBASIN						
Middle Caney River	Dissolved Oxygen	Low	Stream	694	11070106	CQ

2006 303(d) Listed Streams in the Verdigris River Basin



KDHE.BOW.WPS.092606

2006 303(d) Listed Lakes in the Verdigris River Basin

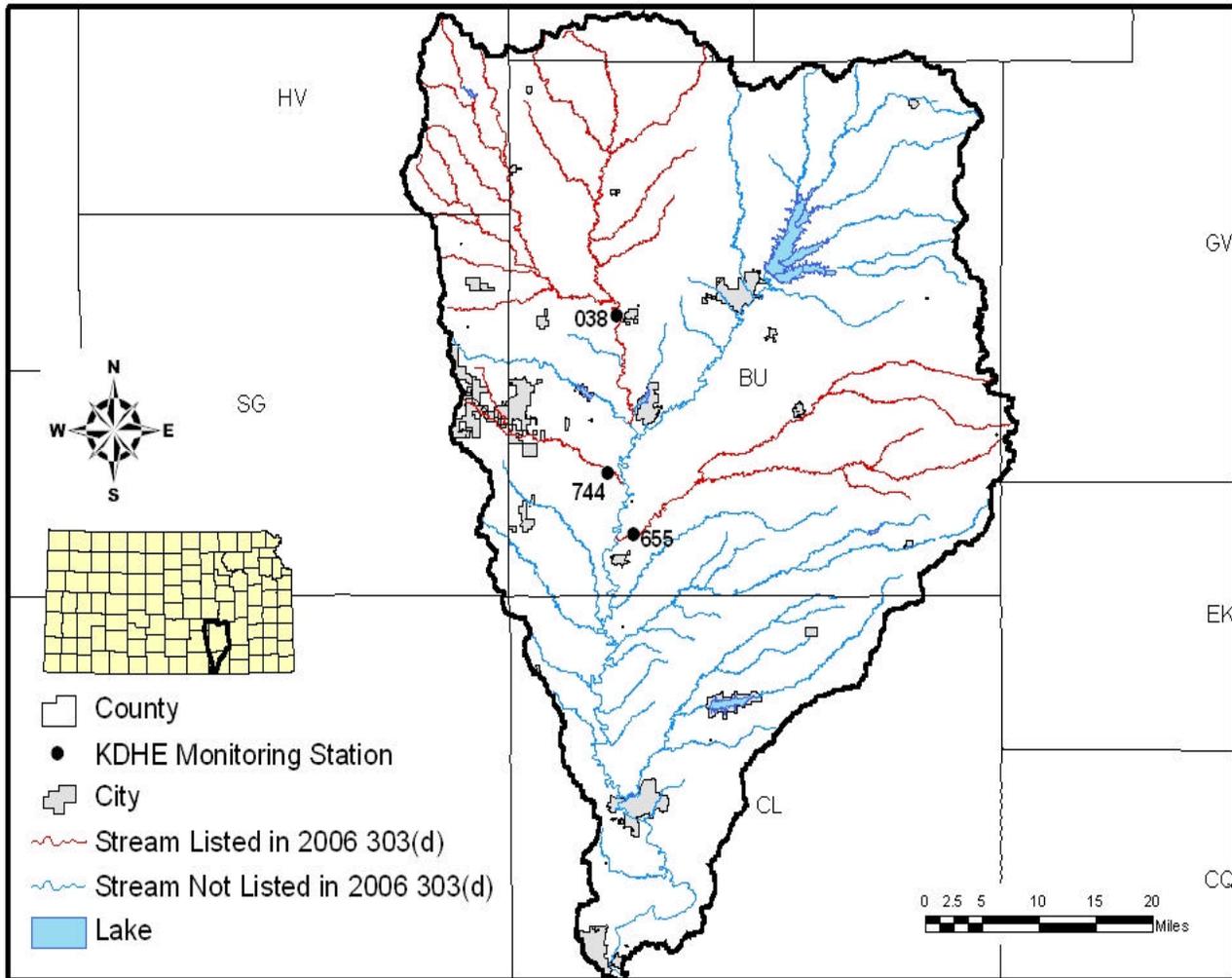


WALNUT BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

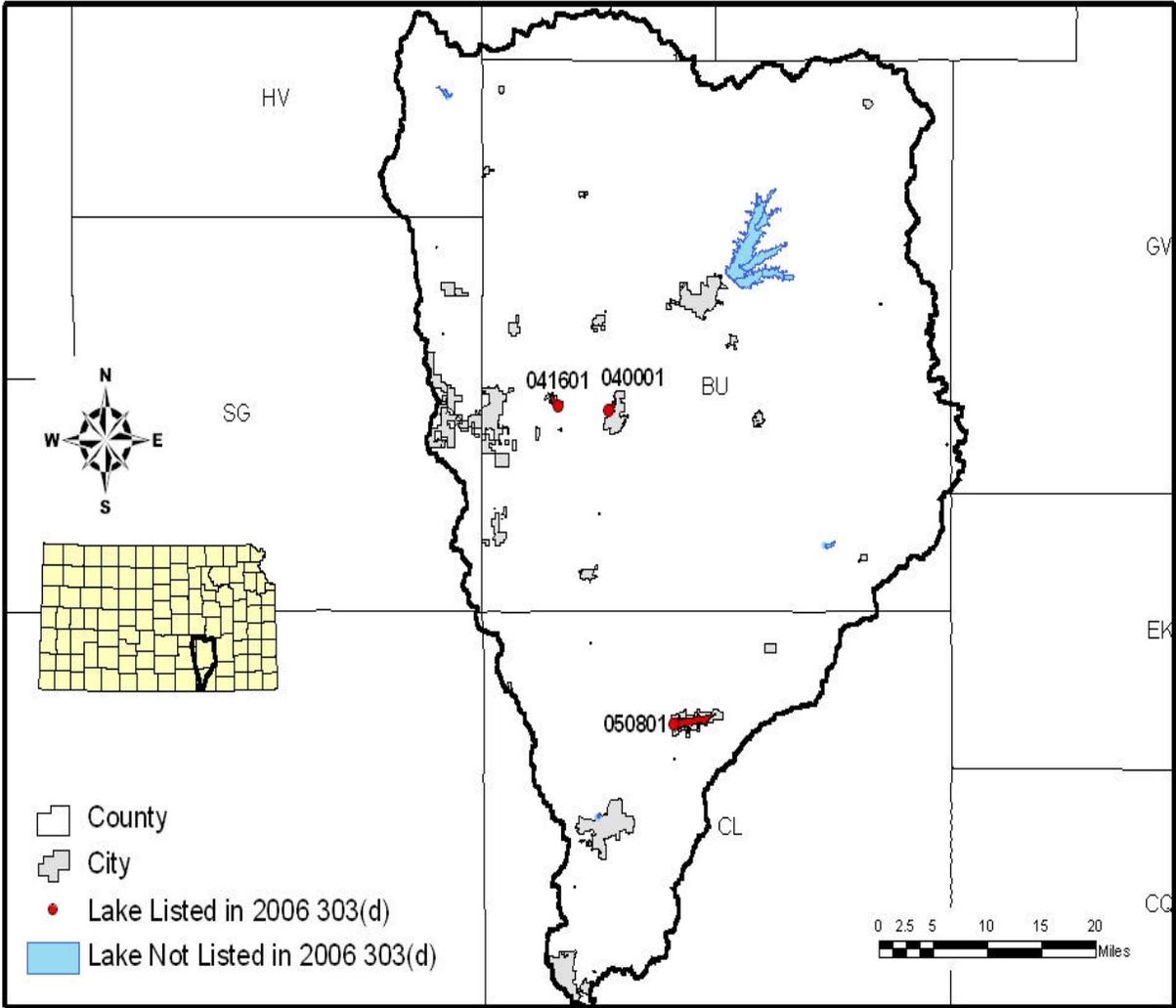
Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
UPPER WALNUT SUBBASIN						
Whitewater River	Atrazine	Medium	Stream	38	11030017	BU
Four Mile Creek	Sulfate	Low	Stream	744	11030017	BU
Augusta Santa Fe Lake	Chronic Lead	Medium	Lake	41601	11030017	BU
Augusta City Lake	Eutrophication	Medium	Lake	40001	11030017	BU
LOWER WALNUT SUBBASIN						
Little Walnut River	Acute Copper	Medium	Stream	655	11030018	BU
Winfield City Lake	Eutrophication	High	Lake	50801	11030018	CL

2006 303(d) Listed Streams in the Walnut River Basin



KDHE.BOW.WPS.092606

2006 303(d) Listed Lakes in the Walnut River Basin

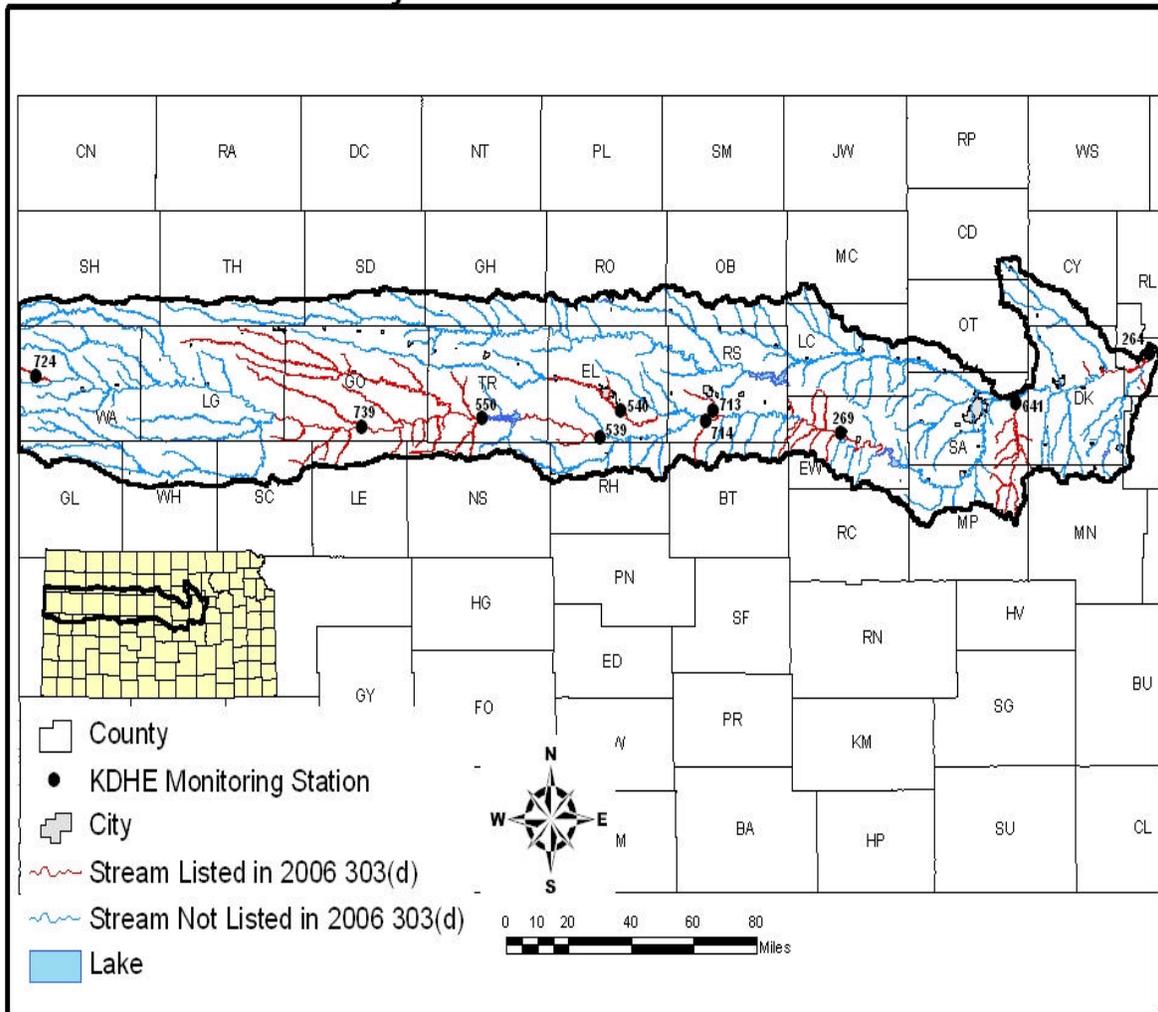


SMOKY HILL – SALINE BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

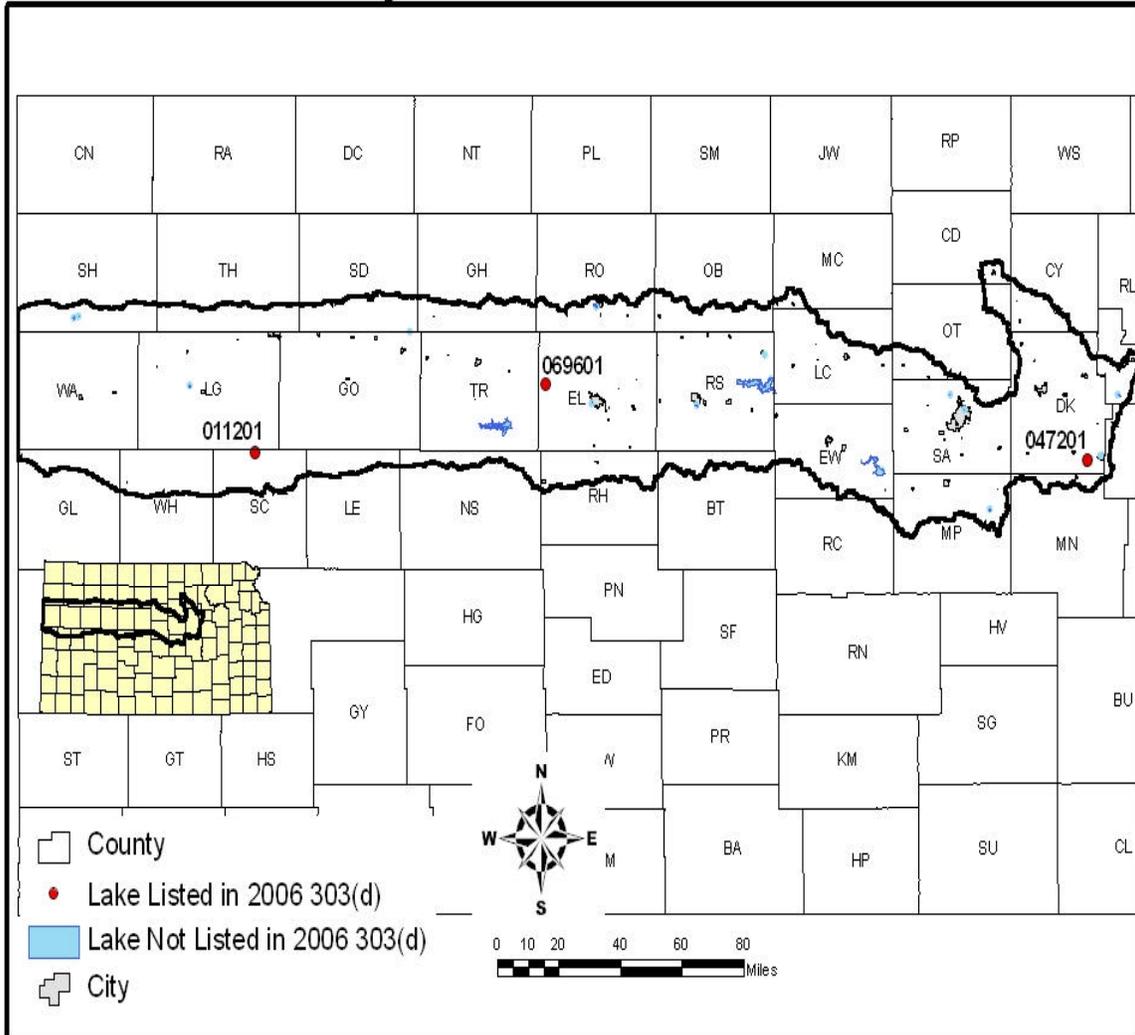
Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
SMOKY HILL HEADWATERS						
Willow Creek	Dissolved Oxygen	Low	Stream	724	10260001	WA
UPPER SMOKY HILL						
Smoky Hill River above Cedar Bluff Lake	Cadmium	Low	Stream	550	10260003	TR
Smoky Hill River above Cedar Bluff Lake	E coli Bacteria	Low	Stream	550	10260003	TR
Smoky Hill River near Gove	Dissolved Oxygen	Low	Stream	739	10260003	GO
LADDER						
Lake Scott State Park	Fluoride	Low	Lake	11201	10260004	SC
MIDDLE SMOKY HILL						
Smoky Hill River above Kanopolis Lake	Biological	Low	Stream	269	10260006	EW
Fossil Creek	Selenium	Low	Stream	713	10260006	RS
Landon Creek	Selenium	Low	Stream	714	10260006	RS
Smoky Hill River at Schoenchen	Selenium	Low	Stream	539	10260006	EL
BIG						
Big Creek Below Hays	E coli Bacteria	Low	Stream	540	10260007	EL
Ellis City Lake	Eutrophication	Low	Lake	69601	10260007	EL
LOWER SMOKY HILL						
Smoky Hill River at Junction City	Biological	Low	Stream	264	10260008	SA
Herington Reservoir	Turbidity	Low	Lake	47201	10260008	DK
LOWER SALINE						
Gypsum Creek	Dissolved Oxygen	Low	Stream	641	10260010	SA

2006 303(d) Listed Streams in the Smoky Hill- Saline River Basin



KDHE.BOW.WPS.092606

2006 303(d) Listed Lakes in the Smoky Hill- Saline River Basin

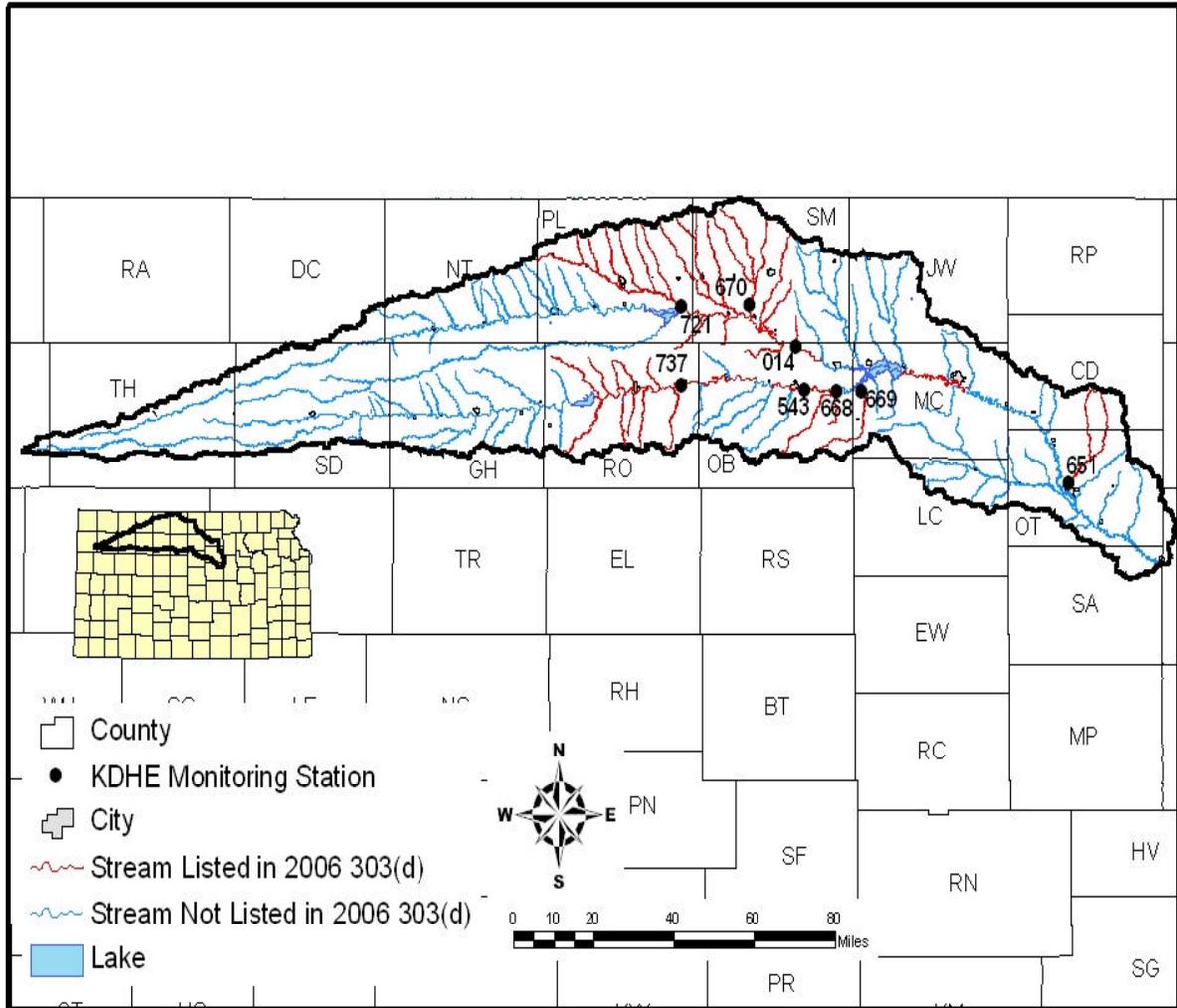


SOLOMON BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

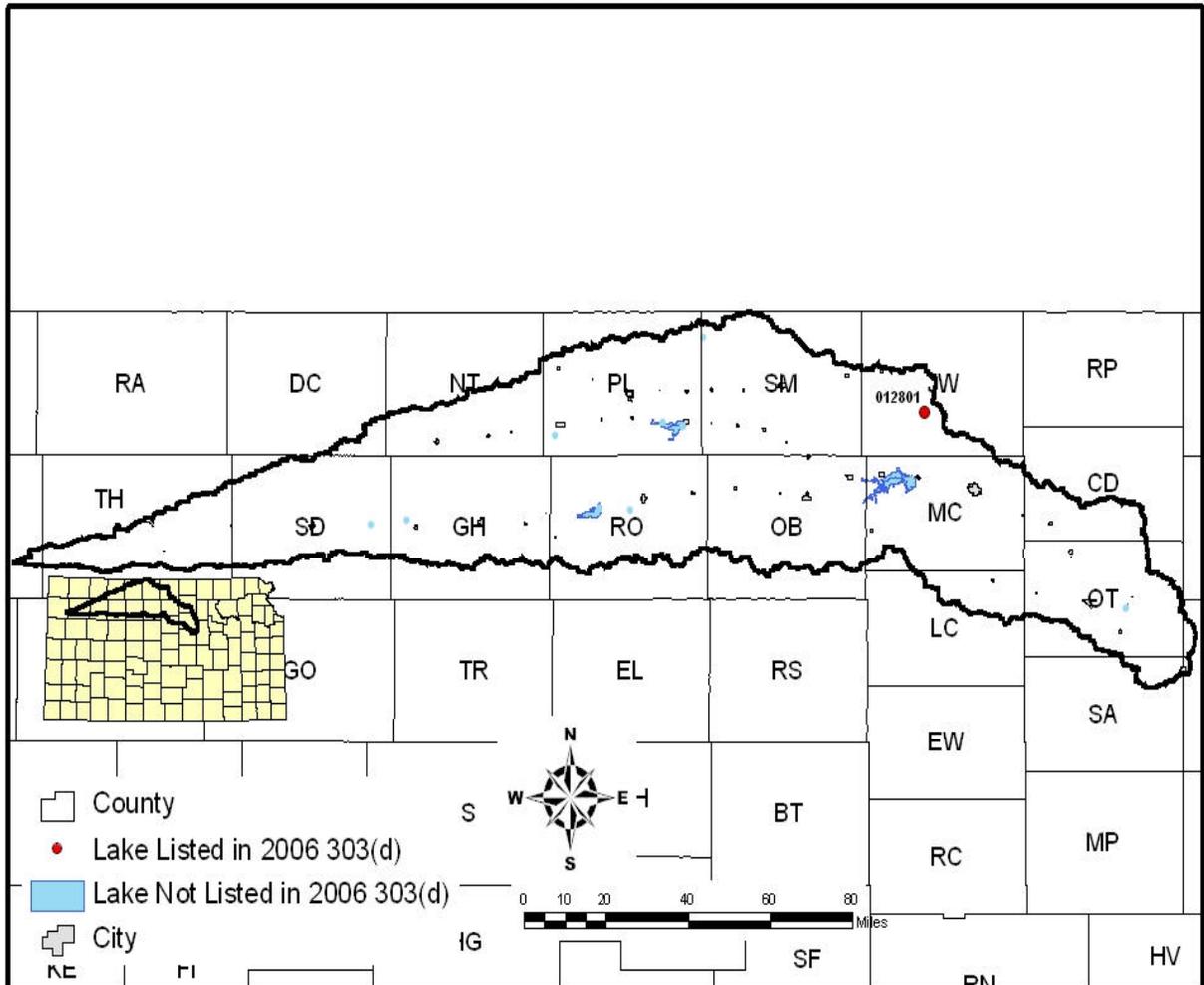
Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
LOWER NORTH FORK SOLOMON						
Lower North Fork Solomon River	Biological	Low	Stream	14	10260012	SM
Lower North Fork Solomon River	E coli Bacteria	Low	Stream	14	10260012	SM
Deer Creek	Dissolved Oxygen	Low	Stream	721	10260012	PL
Beaver Creek	Dissolved Oxygen	Low	Stream	670	10260012	SM
LOWER SOUTH FORK SOLOMON						
Twin Creek	Selenium	Low	Stream	668	10260014	OB
Lower Vermillion Creek	Selenium	Low	Stream	669	10260014	MC,OB
Lower South Fork Solomon River (Rooks Co)	Dissolved Oxygen	Low	Stream	737	10260014	RO
Lower South Fork Solomon River (Rooks Co)	Sulfate	Low	Stream	737	10260014	RO
Lower South Fork Solomon River (Osborne Co)	E coli Bacteria	Low	Stream	543	10260014	OB
SOLOMON						
Upper Solomon River at Beloit	Atrazine	Low	Stream	PWS Data	10260015	MC
Pipe Creek	Acute Copper	Low	Stream	651	10260015	OT,CD
Pipe Creek	Acute Zinc	Low	Stream	651	10260015	OT,CD
Pipe Creek	Dissolved Oxygen	Low	Stream	651	10260015	OT,CD
Jewell Co State Fishing Lake	Eutrophication	Low	Lake	12801	10260015	JW

2006 303(d) Listed Streams in the Solomon River Basin



KDHE.BOW.WPS.092606

2006 303(d) Listed Lakes in the Solomon River Basin

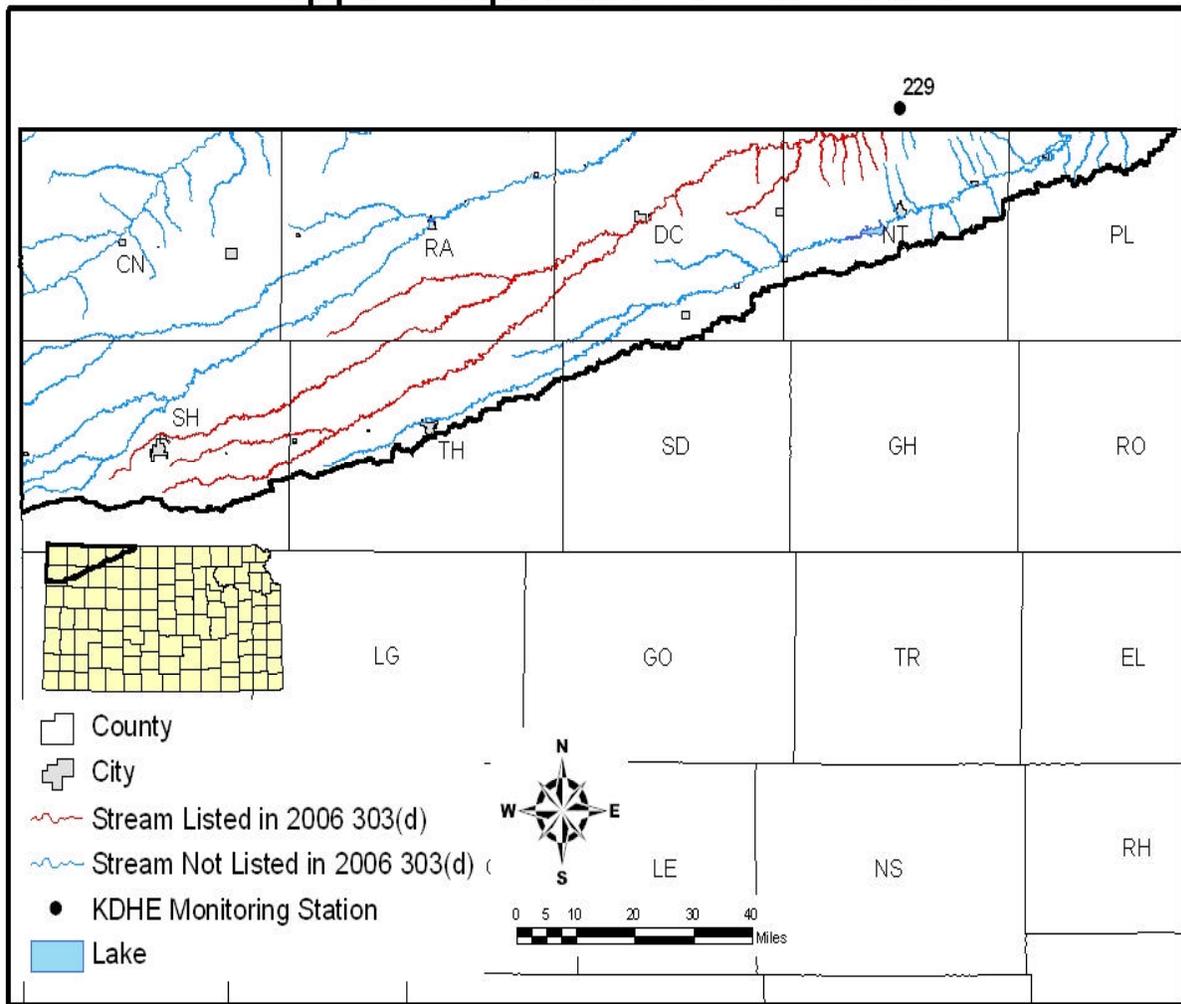


UPPER REPUBLICAN BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
SAPPA Lower Sappa Creek	Arsenic	Low	Stream	229	10250011	NT,DC

2006 303(d) Listed Streams in the Upper Republican River Basin



KDHE.BOW.WPS.092606

KANSAS – LOWER REPUBLICAN BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008
Impaired Watershed/Lake Pollutant 2006-2008 Priority Waterbody, Monitoring HUC 8 Counties
for Development Type Station

MIDDLE KANSAS

Kansas River above Topeka	Acute Zinc	Low	Stream	259	10270102	SN,WB
Kansas River at Wamego	Acute Zinc	Low	Stream	260	10270102	PT,WB
Muddy Creek	Acute Copper	Low	Stream	639	10270102	JF
Mission Creek	Acute Copper	Low	Stream	648	10270102	SN
Kansas River above Topeka	Biological	Low	Stream	371;SC259	10270102	SN,WB
Halfday Creek	Biological	Low	Stream	376;SC239	10270102	SN
Lower Vermillion Creek	Biological	Low	Stream	520	10270102	PT

Lake Shawnee	Eutrophication	Low	Lake	12201	10270102	SN
Lake Wabaunsee	Eutrophication	Low	Lake	42001	10270102	WB
Pottawatomie Co. State Fishing Lake #1	Eutrophication	Low	Lake	12901	10270102	PT
Pottawatomie Co. State Fishing Lake #1	Dissolved Oxygen	Low	Lake	12901	10270102	PT

DELAWARE

Grasshopper Creek	Acute Zinc	Low	Stream	603	10270103	AT,BR
Grasshopper Creek	Acute Copper	Low	Stream	603	10270103	AT,BR
Perry Lake	Eutrophication	Low	Lake	29001	10270103	JF,AT,BR
Atchison County Park Lake	Eutrophication	Low	Lake	60601	10270103	AT
Atchison County Park Lake	Turbidity	Low	Lake	60601	10270103	AT
Perry Wildlife Area	Eutrophication	Low	Wetland	29041	10270103	JF,AT,BR
Perry Wildlife Area	Dissolved Oxygen	Low	Wetland	29041	10270103	JF,AT,BR

LOWER KANSAS

Kansas River at Kansas City	Acute Copper	Low	Stream	203	10270104	JO,WY
Kansas River at Eudora	Acute Copper	Low	Stream	255	10270104	DG
Kansas River at Lecompton	Chronic Lead	Low	Stream	257	10270104	JF,DG,SN
Kansas River from Lawrence to Eudora	PCB	Low	Stream	Fish Tissue	10270104	DG
Lower Stranger Creek	Atrazine	Low	Stream	501	10270104	LV
Upper Stranger Creek	Atrazine	Low	Stream	602	10270104	LV,AT
Lower Stranger Creek	Acute Copper	Low	Stream	501	10270104	LV
Upper Stranger Creek	Acute Copper	Low	Stream	602	10270104	LV,AT
Crooked Creek	Atrazine	Low	Stream	683	10270104	JF
Coal Creek	Dissolved Oxygen	Low	Stream	679	10270104	DG
Lower Stranger Creek	Biological	Low	Stream	378; SC501	10270104	LV
Kansas River at Lecompton	Biological	Low	Stream	372;SC257	10270104	DG,JF,SN

Strowbridge Reservoir	Eutrophication	Low	Lake	51201	10270104	OS
Rose's Pond	Eutrophication	Low	Lake	62501	10270104	JO
Douglas Co State Fishing Lake	Eutrophication	Low	Lake	11301	10270104	DG
Leavenworth Co State Fishing Lake	Eutrophication	Low	Lake	12301	10270104	LV

Baker Wetlands	Eutrophication	Low	Wetland	14401	10270104	DG
Baker Wetlands	Chronic Lead	Low	Wetland	14401	10270104	DG
Baker Wetlands	pH	Low	Wetland	14401	10270104	DG

LOWER BIG BLUE

Middle Big Blue River	pH	Low	Stream	233	10270205	MS
Middle Big Blue River	Acute Copper	Low	Stream	233	10270205	MS
Lower Big Blue River	pH	Low	Stream	240	10270205	MS
Lower Big Blue River	Acute Copper	Low	Stream	240	10270205	MS
Black Vermillion River	Acute Copper	Low	Stream	505	10270205	MS,NM
Middle Big Blue River	Biological	Low	Stream	233	10270205	MS

LOWER LITTLE BLUE

Little Blue River	Acute Copper	Low	Stream	232	10270207	WS
Little Blue River	Chronic Lead	Low	Stream	232	10270207	WS
Little Blue River	Biological	Low	Stream	232	10270207	WS
Rose Creek	Acute Copper	Low	Stream	712	10270207	RP

Washington Co State Fishing Lake	Eutrophication	Low	Lake	10901	10270207	WS
----------------------------------	----------------	-----	------	-------	----------	----

Washington Co Wildlife Area	Chronic Lead	Low	Wetland	10941	10270207	WS
-----------------------------	--------------	-----	---------	-------	----------	----

MIDDLE REPUBLICAN

White Rock Creek	Sulfate	Low	Stream	508	10250016	JW
Republican River at Hardy	Biological	Low	Stream	231	10250016	RP

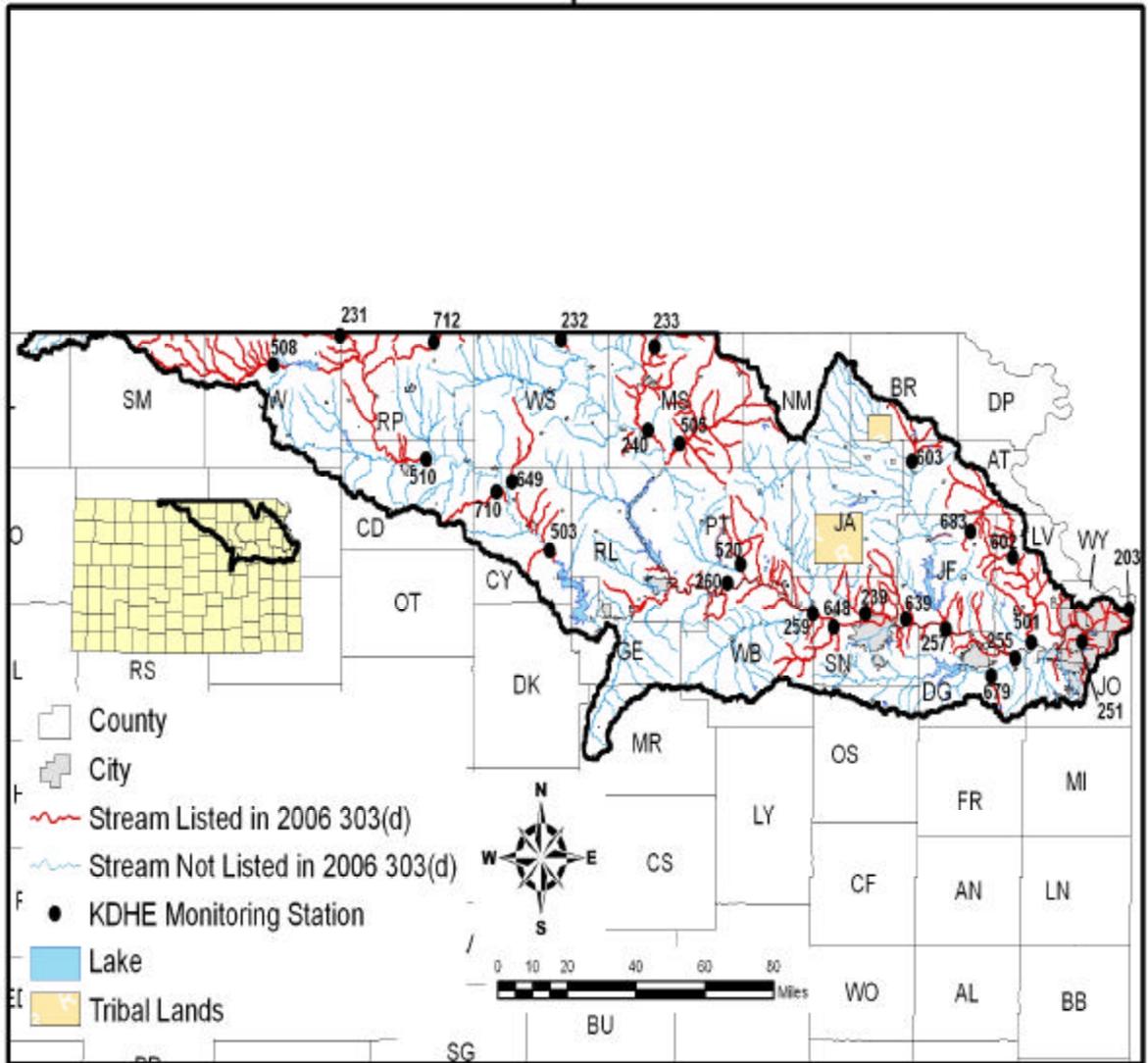
Lovewell Lake	Eutrophication	Low	Lake	15001	10250016	JW
Lovewell Lake	pH	Low	Lake	15001	10250016	JW

LOWER REPUBLICAN

Middle Republican River	pH	Low	Stream	510	10250017	CD,RP
Peats Creek	Acute Copper	Low	Stream	649	10250017	CY
Mulberry Creek	Acute Zinc	Low	Stream	710	10250017	CY
Lower Republican River	Biological	Low	Stream	503	10250017	CY

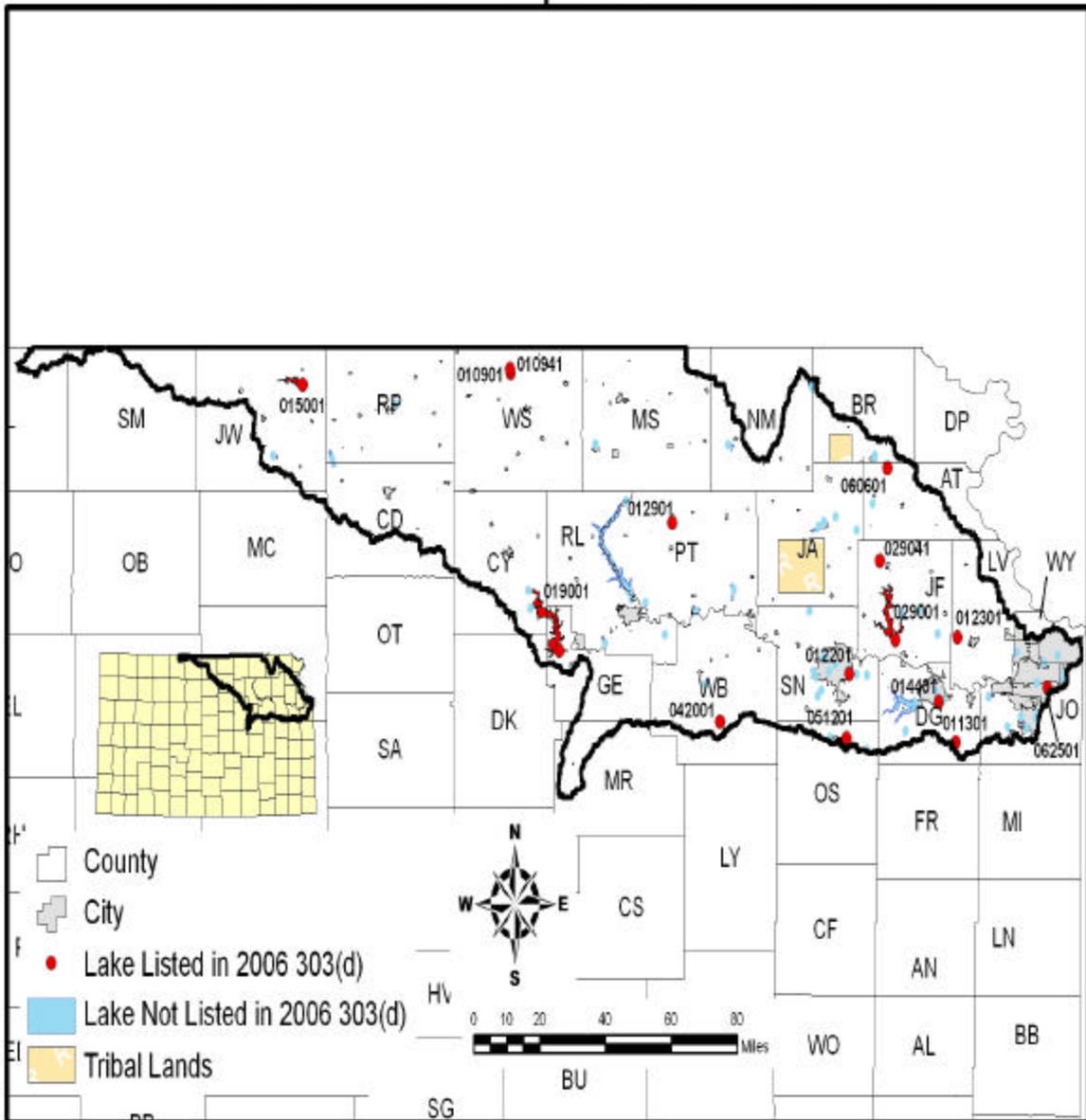
Milford Lake	Eutrophication	Low	Lake	19001	10250017	CY,CD
--------------	----------------	-----	------	-------	----------	-------

2006 303(d) Listed Streams in the Kansas- Lower Republican River Basin



KDHE.BOW.WPS.092606

2006 303(d) Listed Lakes in the Kansas- Lower Republican River Basin

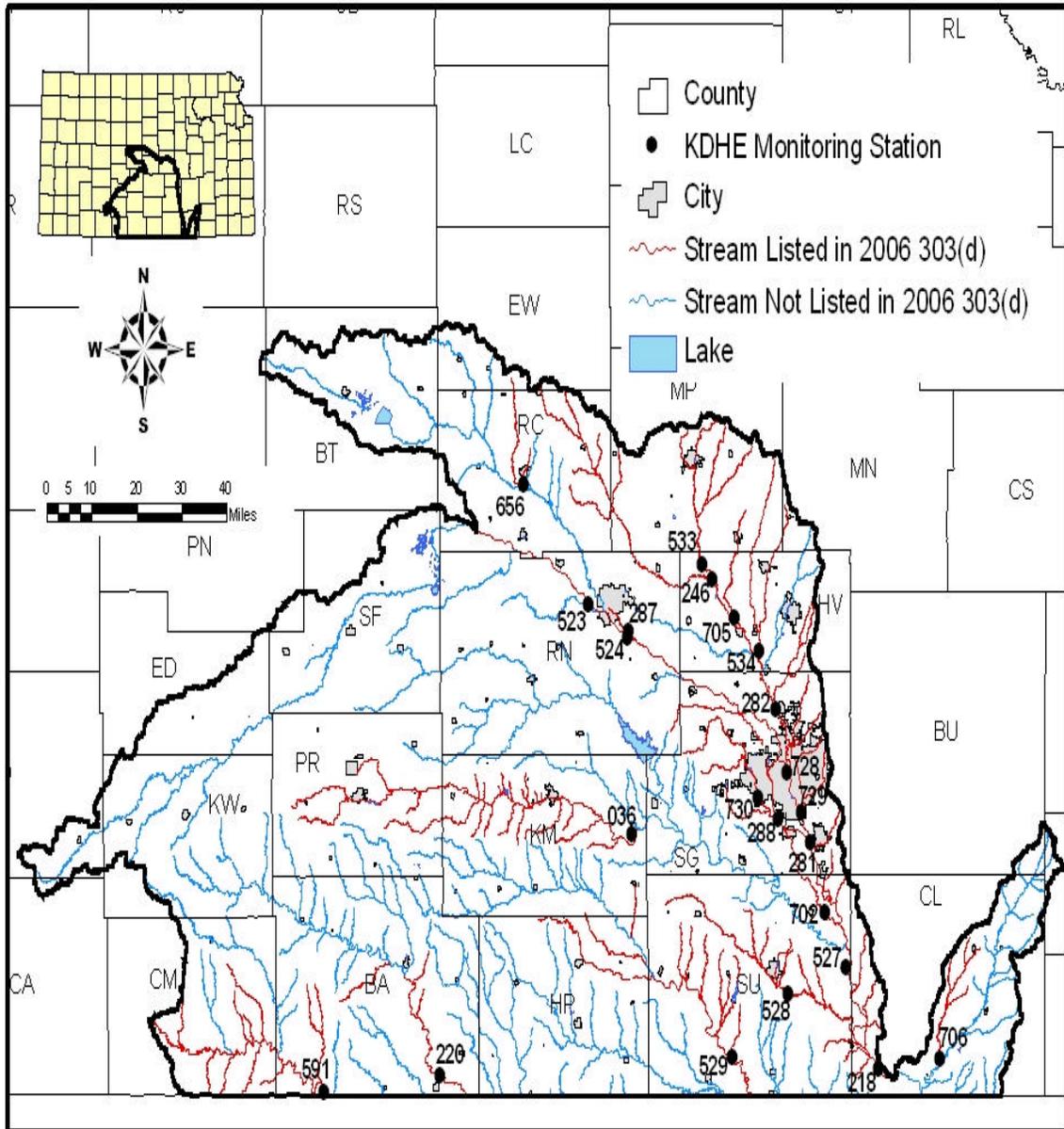


LOWER ARKANSAS BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

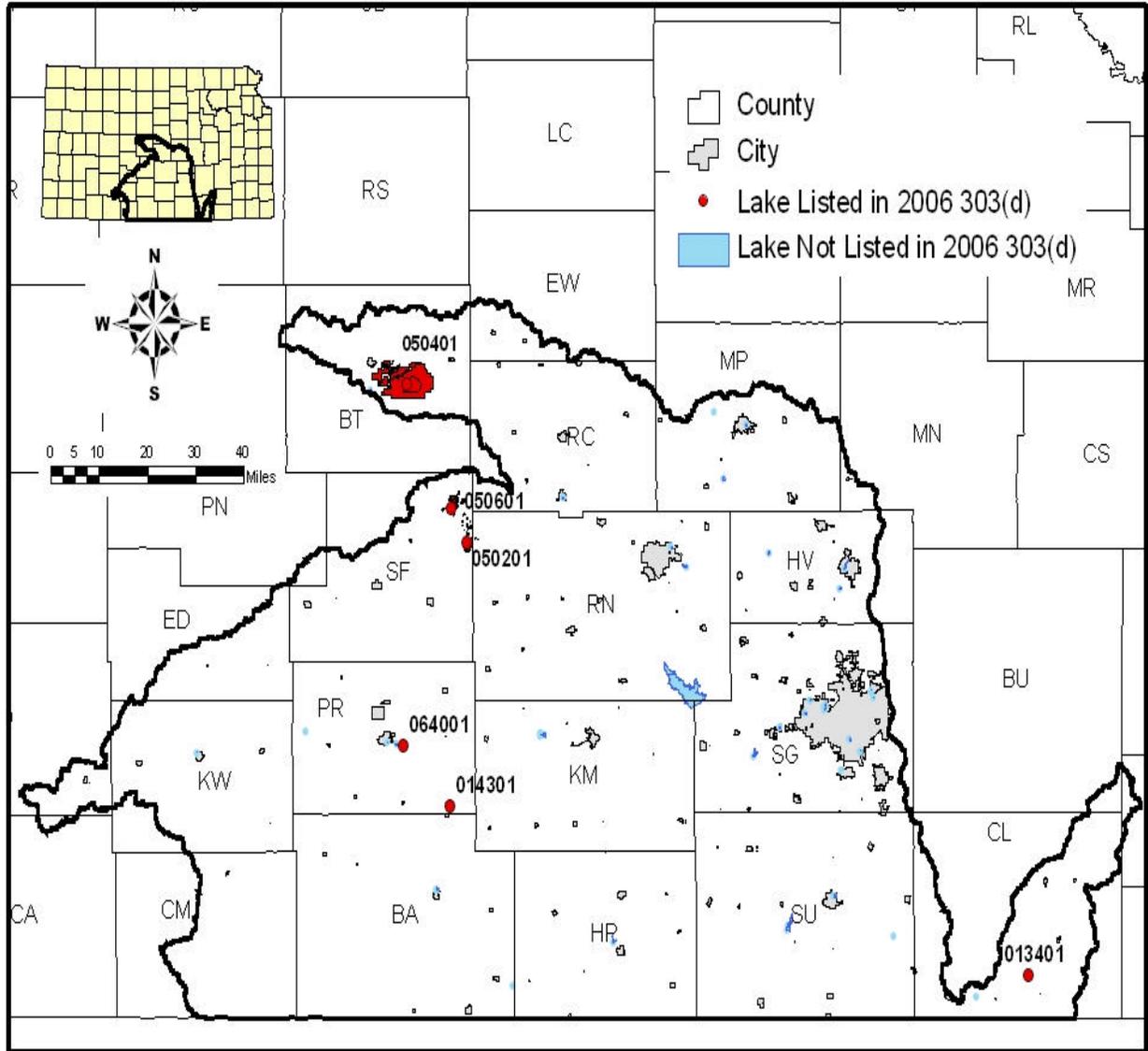
Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
RATTLESNAKE						
Quivira Little Salt Marsh	Chloride	Low	Wetland	50201	11030009	SF
Quivira Little Salt Marsh	Turbidity	Low	Wetland	50201	11030009	SF
Quivira Big Salt Marsh	Chloride	Low	Wetland	50601	11030009	SF
Quivira Big Salt Marsh	Turbidity	Low	Wetland	50601	11030009	SF
GAR-PEACE						
Arkansas River at Hutchinson	E coli Bacteria	Low	Stream	523,524	11030010	RN
COW						
Lower Cow Creek	PCB	Low	Stream	Fish Tissue	11030011	RN
Lower Cow Creek	Selenium	Low	Stream	287	11030011	RN
Little Cow Creek	Acute Copper	Low	Stream	656	11030011	RC
Little Cow Creek	Atrazine	Low	Stream	656	11030011	RC
Cheyenne Bottoms Wildlife Area	Turbidity	Low	Wetland	50401	11030011	BT
LITTLE ARKANSAS						
Lower Little Arkansas River in Wichita	Mercury	Low	Stream	Fish Tissue	11030012	SG
Lower Little Arkansas River in Wichita	Acute Copper	Low	Stream	728	11030012	SG
Upper Little Arkansas River	Acute Copper	Low	Stream	246	11030012	HV,RN,MP
Middle Little Arkansas River	Acute Copper	Low	Stream	282	11030012	SG,HV
Turkey Creek	Acute Zinc	Low	Stream	533	11030012	HV,MP
Turkey Creek	Selenium	Low	Stream	533	11030012	HV,MP
Emma Creek	Dissolved Oxygen	Low	Stream	534	11030012	HV,MP
Black Kettle Creek	Acute Copper	Low	Stream	705	11030012	HV
Black Kettle Creek	Dissolved Oxygen	Low	Stream	705	11030012	HV
MIDDLE ARKANSAS - SLATE						
Arkansas River below Wichita	PCB	Low	Stream	Fish Tissue	11030013	SG,SU
Middle Cowskin Creek	Acute Copper	Low	Stream	288	11030013	SG
Lower Arkansas River	pH	Low	Stream	527	11030013	SG,SU
Slate Creek	E coli Bacteria	Low	Stream	528	11030013	SU
Lower Cowskin Creek	Acute Copper	Low	Stream	702	11030013	SU,SG
Lower Cowskin Creek	Chronic Lead	Low	Stream	702	11030013	SU,SG
Arkansas River in Wichita	Acute Copper	Low	Stream	729	11030013	SG
Arkansas River in Wichita	pH	Low	Stream	729	11030013	SG
Upper Cowskin Creek	Atrazine	Low	Stream	730	11030013	SG
SOUTH FORK NINNESCAH						
South Fork Ninnescah River	Temperature	Low	Stream	36	11030015	KM
Pratt Co. Lake	pH	Low	Lake	64001	11030015	PR
KAW LAKE						
Lower Arkansas River	E coli Bacteria	Low	Stream	527,218	11060001	SU,CL
Arkansas River at Arkansas City	pH	Low	Stream	218	11060001	CL
Silver Creek	Chronic Copper	Low	Stream	706	11060001	CL
Cowley Co. State Fishing Lake	Eutrophication	Low	Lake	13401	11060001	CL
UPPER SALT FORK ARKANSAS						
Salt Fork Arkansas River	Temperature	Low	Stream	591	11060002	BA,CM
MEDICINE LODGE						
Lower Medicine Lodge River	Temperature	Low	Stream	220	11060003	BA
CHIKASKIA						
Lower Chikaskia River	Acute Copper	Low	Stream	529	11060005	SU,HP
Isabel Wildlife Area	Chronic Copper	Low	Wetland	14301	11060005	PR
Isabel Wildlife Area	Dissolved Oxygen	Low	Wetland	14301	11060005	PR

2006 303(d) Listed Streams in the Lower Arkansas River Basin



KDHE.BOW.WPS.092606

2006 303(d) Listed Lakes in the Lower Arkansas River Basin

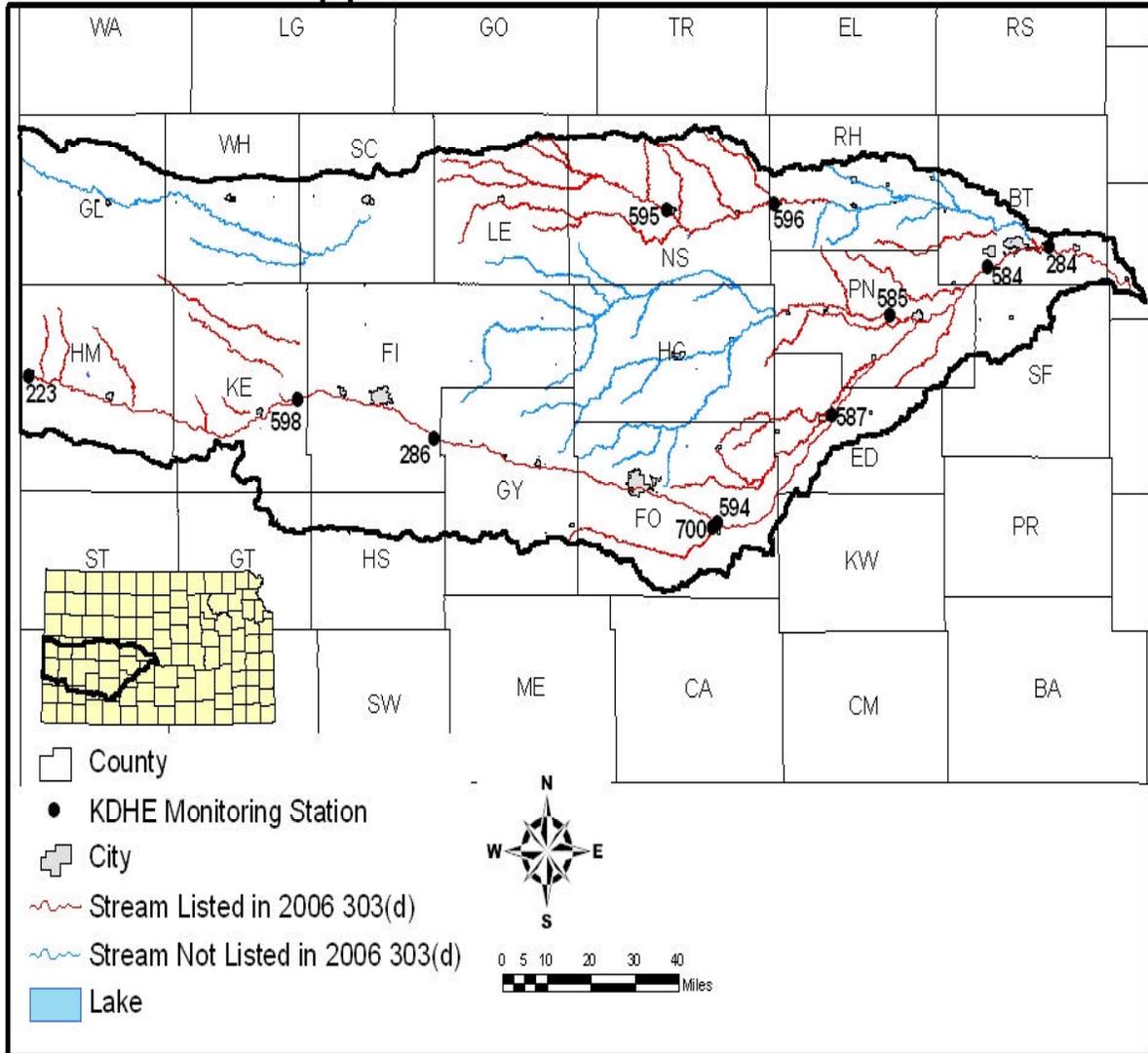


UPPER ARKANSAS BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

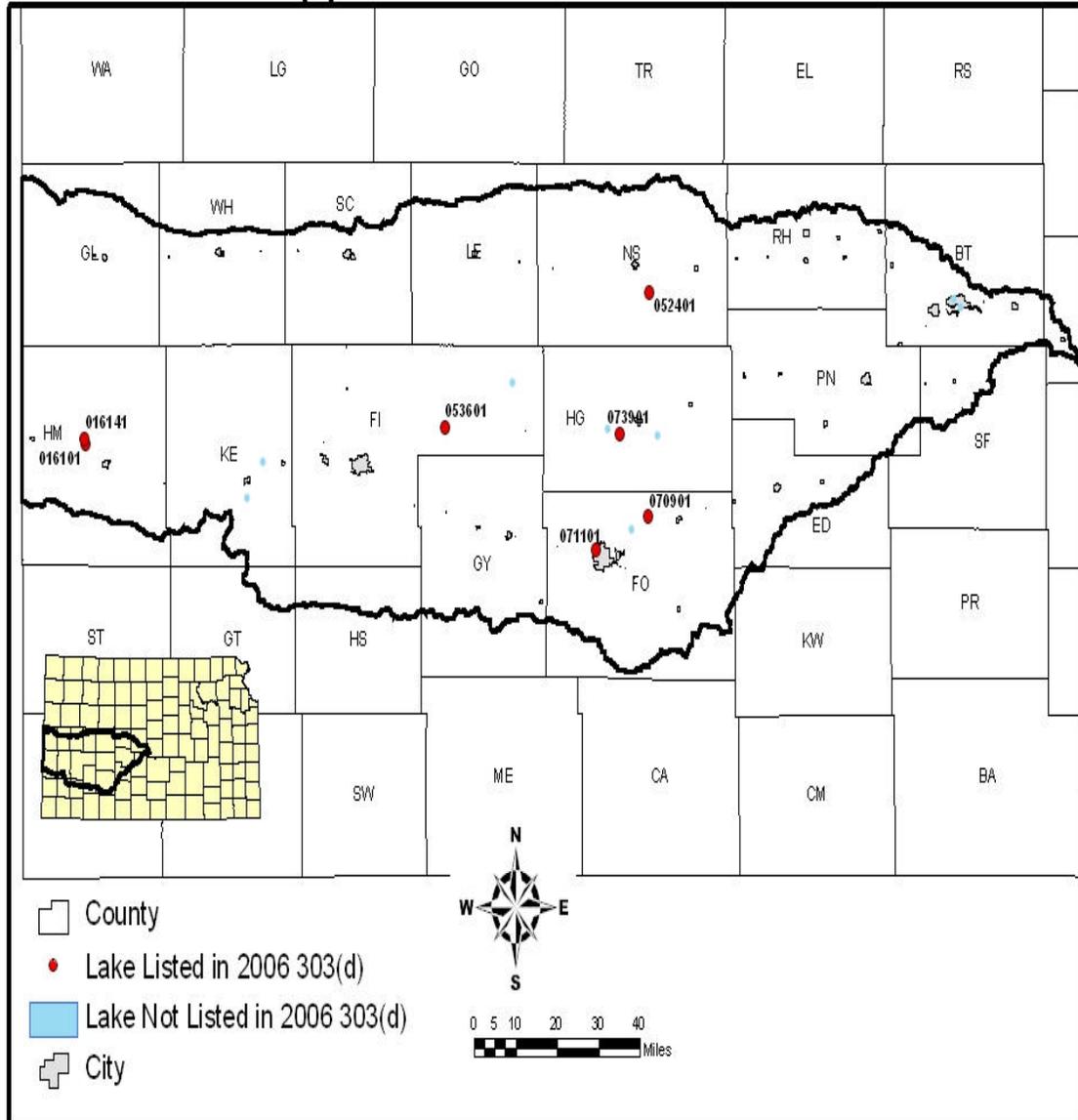
Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
MIDDLE ARKANSAS - LAKE MC KINNEY						
Arkansas River- Coolidge to Pierceville	Selenium	High	Stream	286,598,223	11030001	HM,KE,FI
Arkansas River at Stateline	E coli Bacteria	Low	Stream	223	11030001	HM
Arkansas River at Pierceville	Boron	Low	Stream	286	11030001	FI
Hamilton Co. State Fishing Lake	Chloride	Low	Lake	16101	11030001	HM
Hamilton Co. State Fishing Lake	Sulfate	Low	Lake	16101	11030001	HM
Hamilton Co. State Fishing Lake	Turbidity	Low	Lake	16101	11030001	HM
Hamilton Co. State Fishing Lake	Dissolved Oxygen	Low	Lake	16101	11030001	HM
Hamilton Co. Wildlife Area	Chloride	Low	Wetland	16141	11030001	HM
Hamilton Co. Wildlife Area	Sulfate	Low	Wetland	16141	11030001	HM
ARKANSAS - DODGE CITY						
Lake Charles	Eutrophication	Low	Lake	71101	11030003	FO
Concannon State Fishing Lake	Eutrophication	Low	Lake	53601	11030003	FI
Concannon State Fishing Lake	Boron	Low	Lake	53601	11030003	FI
Concannon State Fishing Lake	Sulfate	Low	Lake	53601	11030003	FI
Concannon State Fishing Lake	Fluoride	Low	Lake	53601	11030003	FI
ARKANSAS - PICKEREL						
Arkansas River - Ford to Great Bend	Selenium	High	Stream	284,584,587,594	11030004	FO,ED,PN,BT
Arkansas River at Ford	Boron	Low	Stream	594	11030004	FO
Mulberry Creek	Dissolved Oxygen	Low	Stream	700	11030004	FO
Arkansas River at Ford	Fluoride	Low	Stream	594	11030004	FO
PAWNEE						
Lower Pawnee River	Dissolved Oxygen	Low	Stream	585	11030005	PN
BUCKNER						
Jetmore Lake	Eutrophication	Low	Lake	73901	11030006	HG
Hain State Fishing Lake	Eutrophication	Low	Lake	70901	11030006	FO
UPPER WALNUT						
North Fork Walnut Creek	Selenium	Low	Stream	595	11030007	NS,LE
Upper Walnut Creek	Selenium	Low	Stream	596	11030007	NS
Upper Walnut Creek	Dissolved Oxygen	Low	Stream	596	11030007	NS
LOWER WALNUT						
Goodman State Fishing Lake	Eutrophication	Low	Lake	52401	11030008	NS
Goodman State Fishing Lake	Sulfate	Low	Lake	52401	11030008	NS

2006 303(d) Listed Streams in the Upper Arkansas River Basin



KDHE.BOW.WPS.092606

2006 303(d) Listed Lakes in the Upper Arkansas River Basin



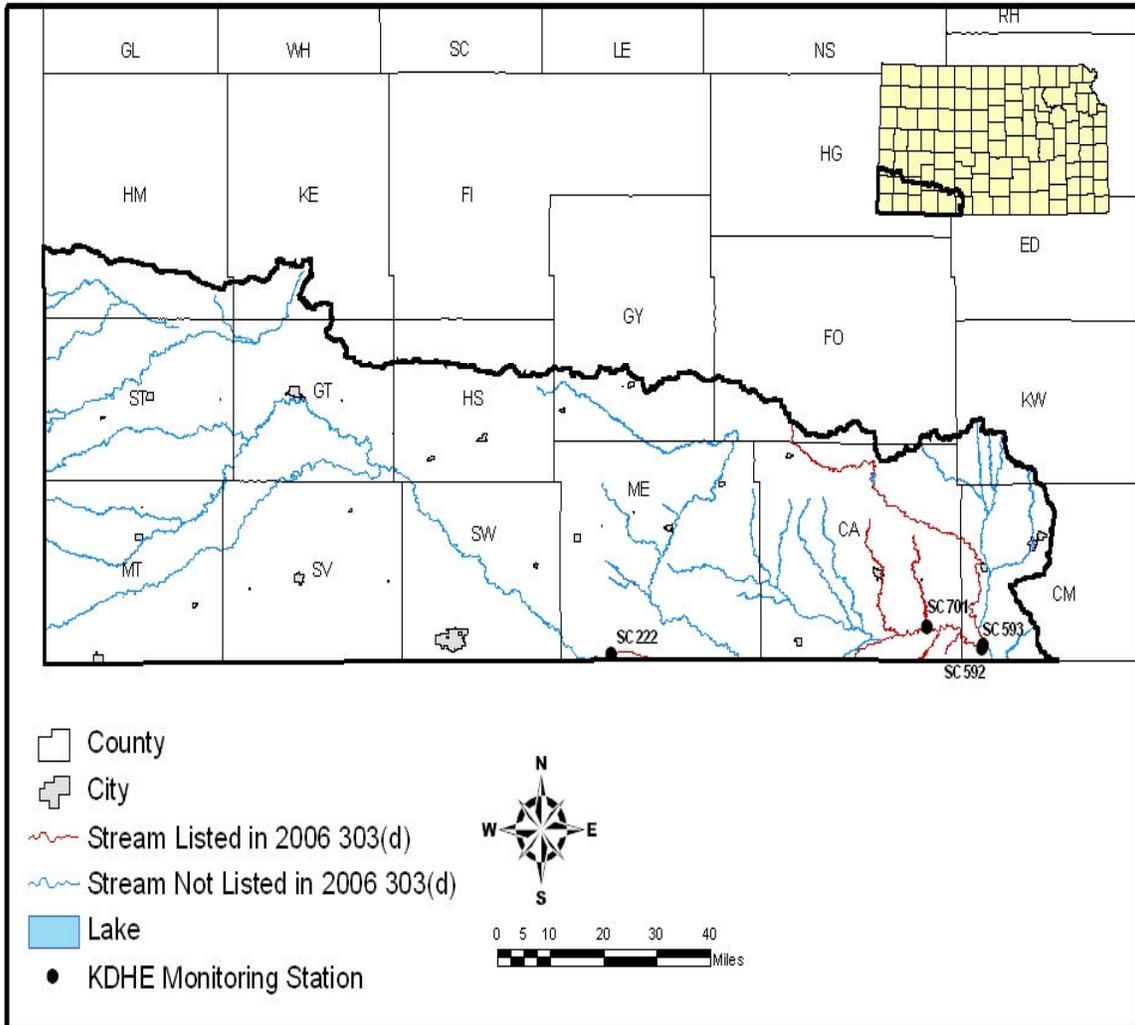
KDHE.BOW.WPS.092606

CIMARRON BASIN

CATEGORY 5: IMPAIRED WATERS NEEDING A TMDL; BOLD FONT INDICATES TMDL TO BE DEVELOPED IN 2006-2008

Impaired Watershed/Lake	Pollutant	2006-2008 Priority for Development	Waterbody Type	Monitoring Station	HUC 8	Counties
UPPER CIMARRON						
Moss Lake West	Eutrophication	Low	Lake	60501	11040002	MT
Moss Lake West	Fluoride	Low	Lake	60501	11040002	MT
Moss Lake West	Sulfate	Low	Lake	60501	11040002	MT
UPPER CIMARRON - LIBERAL						
Cimarron River above Forgan, OK	Selenium	Low	Stream	222	11040006	ME, SW
CROOKED						
Lake Meade State Park	Fluoride	Low	Lake	10601	11040007	ME
UPPER CIMARRON - BLUFF						
Cimarron River near Protection	Temperature	Low	Stream	592	11040008	CM, CA
Bluff Creek near Protection	Temperature	Low	Stream	593	11040008	CM, CA
Bluff Creek near Protection	Chloride	Low	Stream	593	11040008	CM, CA
Day Creek	Sulfate	Low	Stream	701	11040008	CA
Lake Coldwater	Eutrophication	Low	Lake	42601	11040008	CM
Big Basin Wildlife Area	Fluoride	Low	Lake	60001	11040008	CA

2006 303(d) Listed Streams in the Cimarron River Basin



2006 303(d) Listed Lakes in the Cimarron River Basin

