

MIDDLE KICKAPOO RIVER WATERSHED (LW05)

The Middle Kickapoo River Watershed is located in central Vernon County, but also includes portions of south central Monroe County and northwest Richland County as well. This watershed includes all streams that flow to the Kickapoo River between Ontario and Readstown. The topography of the Middle Kickapoo River Watershed is quite severe with steep wooded hillsides and narrow valleys which limits the majority of farmland in this watershed to the ridgetops. Only a small portion of the Middle Kickapoo River Watershed contains wetlands and they are concentrated along the Kickapoo River, Weister Creek and Warner Creek. An abundance of trout streams drain this watershed. Recently the section of the Kickapoo River in this watershed was classified as Class II trout.

Population of the Middle Kickapoo River Watershed for the year 2000 was estimated at approximately 4,120 which includes portions of 15 townships and three villages. The fastest growing community in this watershed is Ontario at nearly 17%.

Table 1: Growth in Municipalities in the Watershed

<i>Municipality</i>	<i>1990</i>	<i>2000</i>	<i>% Change</i>
La Farge	766	775	1.17%
Ontario (part)	407	476	16.9%
Viola	644	667	3.57%

La Farge, Ontario, and Viola each have Wisconsin Pollutant Discharge Elimination System (WPDES) permits to discharge treated wastewater to the Kickapoo River. The Village of Ontario treatment plant and original primary plant are old. The Village needs to complete a facility plan to determine what upgrades are needed at the plant. One confined animal feeding operation (CAFO) exists in the watershed. The facility has a WPDES permit and is located on a ridge that drains to Weister Creek. The facility has an 8 million gallon manure storage pit designed to NFCS specifications and is in compliance with their permit.

Overall, nonpoint source pollution is considered the primary cause of water quality problems in streams of this watershed specifically the overgrazing of livestock on streambanks, cropland erosion, and streambank erosion. Consequently the Middle Kickapoo River Priority Watershed Project was initiated in 1989 to improve land management practices in order to reduce nonpoint source pollution by working with landowners. This project will continue until 2004. More information about this

Watershed At A Glance

Drainage Area (m²): 247
Total Stream Miles: 205.5
Trout Stream Miles: 128.6
Sport Fishery Miles: 0

Lakes: None

Exceptional/Outstanding Resource Waters: Cheyenne Valley Creek, Elk Creek, Camp Creek, Bufton Hollow Creek, South Bear Creek

Municipalities: La Farge, Ontario, Viola

Major Public Lands:

- ◆ Kickapoo Valley Reserve
- ◆ Wildcat Mountain State Park

Concerns and Issues:

- ◆ Nonpoint source pollution
- ◆ Proliferation of spring ponds

Initiatives and Projects:

- ◆ Middle Kickapoo River Priority Watershed Project
- ◆ Installation of in-stream habitat for trout
- ◆ Continuous water temperature monitoring
- ◆ Fish and habitat surveys
- ◆ USGS Gauging Stations on the Kickapoo River at Ontario and La Farge.

project can be found at <http://lwcd.org/mkr.htm> and the Vernon, Monroe and Richland County Land Conservation Department offices.

Table 2: Land Cover in the Middle Kickapoo River Watershed

<i>Land Cover</i>	<i>Percent of Watershed</i>
Agriculture	37.7%
Forest (Total)	45.9%
<i>Broad-Leaf Deciduous</i>	44.5%
<i>Coniferous</i>	1.4%
Grassland	13.6%
Wetland (Total)	2.1%
<i>Emergent/Wet Meadow</i>	1.4%
<i>Forested</i>	0.6%
<i>Lowland Shrub</i>	0.1%
Other	0.6%
Development	0.09%

The Middle Kickapoo River Watershed has a variety of good quality habitats and rare plant communities that are listed on the state’s Natural Heritage Inventory, (NHI), kept by the Bureau of Endangered Resources. These communities include:

- ◆ Dry cliff
- ◆ Hemlock relict
- ◆ Moist cliff
- ◆ Northern dry-mesic forest
- ◆ Northern mesic forest
- ◆ Pine relict
- ◆ Southern dry-mesic forest
- ◆ Southern mesic forest
- ◆ Floodplain forest
- ◆ Forested seep
- ◆ Hardwood swamp
- ◆ Southern hardwood swamp
- ◆ Southern sedge meadow

In addition to these special communities, the watershed is also home for a variety of rare plant and animal species including; 6 bird species, 1 species of dragonfly, 2 species of fish, 1 species of frog, 1 species of mammal, 16 plant species, 1 species of salamander and 1 species of snail. These plants and animals are listed on the state’s natural heritage inventory.

The State of Wisconsin owns a large amount of land in the Middle Kickapoo River Watershed including 3,646 acres in Wildcat Mountain State Park and 8,569 acres in the Kickapoo Valley Reserve. Ownership of the Kickapoo Valley Reserve, located in central Vernon County, recently transferred from the U. S. Army Corps of Engineers to the State of Wisconsin and the Ho-Chunk Nation. The Reserve, originally planned to contain a large flood control structure and impoundment, is home to numerous native species of plants and animals. The Reserve is managed by an 11-member board which includes a joint management agreement with the Ho-Chunk Nation. It is the first time a locally controlled board has managed state land. The board decided to ban all motorized vehicles in the Reserve except snowmobiles. Recreational activities include on- and off- road biking, primitive camping, canoeing, hiking, cross-country skiing, horse riding, fishing and hunting. Future plans for the reserve include the construction

of timber bridges to connect many trails and a visitors center. More information on the Reserve can be found at <http://kvr.state.wi.us/static/>.

Wildcat Mountain State Park, located between Ontario and the Kickapoo Valley Reserve, contains steep wooded hills and sandstone cliffs. Several trout streams and a portion of the Kickapoo River flows through the park also. Wildcat Mountain State Park offers camping, hiking, cross country ski trails, a canoe launch on the Kickapoo River, as well as one of the few horse camping facilities and trails in the State Park system.

STREAMS AND RIVERS IN THE WATERSHED

Bear Creek

Bear Creek, located in central Vernon County, flows in a westerly direction for 1.6 miles before reaching the Kickapoo River just south of La Farge. Bear Creek is just the smallest segment of the Bear Creek drainage system that includes North, South and Middle Bear Creeks. The 1.6 mile Bear Creek begins at the confluence of North Bear and South Bear Creeks. This stream has a gradient of 20 feet per mile and drains forested hillsides and valley agricultural lands. Bear Creek is a Class III trout stream for its entire length.

The most recent biological survey, conducted in 1990, documented brown trout and a healthy, diverse forage fishery. The stream bottom was dominated by sand and in-stream cover consisted of overhanging grasses and undercut banks. Bear Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate Bear Creek has been stocked yearly with brown trout since 1960. Access to Bear Creek is from one road crossing.

Billings Creek

Billings Creek begins in south central Monroe County and then flows into north central Vernon County. This stream flows in a southwesterly direction for 11.3 miles before reaching the Kickapoo River south of Ontario. Billings Creek has a gradient of 35 feet per mile and drains forested hillsides with agricultural activities in both valleys and ridgetops. Billings Creek is a Class II trout stream for its entire length.

The most recent survey, conducted in 2000, documented brown, rainbow and brook trout as well as numerous forage fish species. The stream bottom was dominated by sand and gravel and in-stream cover consisted of LUNKER structures, overhanging grasses, natural undercut banks, woody debris and boulders. Billings Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate Billings Creek has been stocked yearly with brown trout since 1960. Rainbow trout were last stocked in 1995. Access to Billings Creek is from nine road crossings, and Wildcat Mountain State Park and the Kickapoo Valley Reserve.

Brush Creek

Brush Creek begins in south central Monroe County and then flows into north central Vernon County. This stream flows in a southeasterly direction for 10.2 miles before reaching the Kickapoo River at Ontario. Brush Creek has a gradient of 42 feet per mile and drains one of

the most intensely farmed areas of the Middle Kickapoo River Watershed. Brush Creek is a Class III trout stream for 7.7 miles in Monroe County and non-trout in Vernon County.

The most recent survey, conducted in 1990, documented brown trout and numerous forage fish species. The stream bottom is dominated by sand and silt with gravel found in the upstream reaches. In-stream cover consisted primarily of woody debris and deep pools. Streambank erosion is common along much of Brush Creek, some of which is naturally occurring and some of which is exacerbated by overgrazing of livestock. Brush Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate Brush Creek has been stocked yearly since 1961 with brown trout. Access to Brush Creek is from six road crossings.

Buften Hollow Creek

Buften Hollow Creek, located in northwest Richland County, flows in a westerly direction for 1.5 miles before reaching Camp Creek. This stream has a gradient of 91 feet per mile and drains forested hillsides, ridgetop agriculture and recreational valley land. Buften Hollow Creek is a Class I trout stream for its entire length and is designated as an Exceptional Resource Water, (ERW).

Buften Hollow Creek should be surveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. Access to Buften Hollow Creek is from one road crossing and WDNR owned land.

Camp Creek

Camp Creek, located in northeastern Richland County, flows in a westerly direction for 5.5 miles before reaching the Kickapoo River near Viola. This stream has a gradient of 33 feet per mile and drains forested hillsides and an agricultural headwater plateau. Camp Creek is a Class I trout stream and an Outstanding Resource Water, (ORW), for its entire length.

The most recent survey, conducted in 1990, documented brown trout and seven forage fish species. The stream bottom was dominated by sand and gravel. In-stream cover consisted of undercut banks, boulders and aquatic vegetation. Camp Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. This stream would benefit from the purchase of streambank easements from willing sellers and the restoration of in-stream habitat. Maintenance of WDNR owned lands adjacent to Camp Creek must include tree and brush removal from streambanks to reduce beaver colonization. Access to Camp Creek is from five road crossings and WDNR owned land.

Chadwick Hollow Creek

Chadwick Hollow Creek, located in central Vernon County and northwest Richland County, flows in a southeasterly direction for 2.0 miles before reaching the Kickapoo River north of Viola. This stream drains forested hillsides and an agricultural valley. Chadwick Hollow Creek is a Class II trout stream for the one mile located in Vernon County.

An abbreviated fishery survey, conducted in December 2001, documented young of the year brook trout, a few brown trout and several forage fish species. A fish and habitat survey of

Chadwick Hollow Creek should be conducted to determine its current classification. WDNR records indicate that Chadwick Hollow Creek has never been stocked.

Cheyenne Valley Creek

Cheyenne Valley Creek, located in north central Vernon County, flows in a westerly direction for 6.0 miles before reaching Billings Creek south of Ontario. This stream has a gradient of 46 feet per mile and drains forested hillsides and agricultural valleys and hilltops. Cheyenne Valley Creek is a Class II trout stream and designated as an Exceptional Resource Water, (ERW), for its entire length.

The most recent biological survey, conducted in 1998, documented brook trout, brown trout and numerous forage fish species. The stream bottom was dominated by sand and cobble. In-stream cover consisted of overhanging grasses, boulders, woody debris and undercut banks. Cheyenne Valley Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. This stream would benefit from the purchase of streambank easements from willing sellers and the restoration of in-stream habitat. WDNR records indicate that Cheyenne Valley Creek has been stocked with wild brook trout since 1998. Access to Cheyenne Valley Creek is from six road crossings, a WDNR owned easement and Wildcat Mountain State Park.

Elk Creek

Elk Creek, located in central Vernon County and northwest Richland County, flows in a northwesterly direction for 4.4 miles before reaching the Kickapoo River between Viola and Readstown. This stream has a gradient of 46 feet per mile and drains forested hillsides and agricultural valleys. Elk Creek is a Class I trout stream for its entire length in both Richland (2.8 miles) and Vernon (1.6 miles) Counties. The Richland County portion of Elk Creek is also designated as an Outstanding Resource Water, (ORW).

The most recent biological surveys, conducted in 1987 and 1990, documented brown trout, rainbow trout, brook trout and numerous forage fish species. The stream bottom was dominated by gravel and sand. In-stream cover consisted of boulders, overhanging grasses and aquatic vegetation. Streambank grazing of livestock was contributing sediment to the stream. Elk Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. This stream would benefit from the purchase of streambank easements from willing sellers and the restoration of in-stream habitat. Maintenance of WDNR owned lands adjacent to Elk Creek must include tree and brush removal from streambanks to reduce beaver colonization. WDNR records indicate that Elk Creek was stocked regularly with brown trout until 1988. Access to Elk Creek is from three road crossings and WDNR owned land.

Goose Creek

Goose Creek, located in northwest Richland County, flows in a westerly direction for 3.0 miles before reaching the Kickapoo River between La Farge and Viola. This stream has a gradient of 81 feet per mile and drains forested hillsides and an agricultural valley. Goose Creek is a Class II trout stream for its entire length.

The most recent survey, conducted in 1990, documented very few brown trout and several forage fish species. The stream bottom consisted primarily of silt and gravel. In-stream cover was scarce. Goose Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate that Goose Creek is stocked annually with brown trout. Access to Goose Creek is from one road crossing.

Indian Creek

Indian Creek, located in north central Vernon County, flows in a southeasterly direction for 2.2 miles before reaching the Kickapoo River south of Rockton. This stream has a gradient of 59 feet per mile and drains forested hillsides with some ridgetop agriculture. Indian Creek is not a classified trout stream.

The most recent survey, conducted in 1990, documented numerous forage fish species but no trout. The stream bottom was dominated by gravel and in-stream cover consisted primarily of woody debris. Indian Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. Reintroduction of brook trout into Indian Creek should be considered. WDNR records indicate that Indian Creek has not been stocked with trout. Access to Indian Creek is from the Kickapoo Valley Reserve.

Jug Creek

Jug Creek, located in central Vernon County, flows in a northwesterly direction for 3.6 miles before reaching the Kickapoo River north of La Farge. This stream has a gradient of 71 feet per mile and drains forested hillsides with agricultural valleys. Jug Creek is not a classified trout stream.

The most recent survey, conducted in 1990, documented numerous forage fish species and no trout. The stream bottom was dominated by gravel. Jug Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. Reintroduction of brook trout into Jug Creek should be considered. WDNR records indicate that Jug Creek has not been stocked with trout. Access is from three road crossings and the Kickapoo Valley Reserve.

Kickapoo River

A total of 46.9 miles from Ontario to Readstown flows through the Middle Kickapoo River Watershed. A majority of the wetlands in this watershed are found adjacent to these 46.9 miles of Kickapoo River. This section of the Kickapoo River is a Class II trout water. There are USGS gauging stations on the river at La Farge and on Highway 33 at Ontario. For information on the entire Kickapoo River see page 98.

Middle Bear Creek

Middle Bear Creek, located in central Vernon County, flows in a westerly direction for 2.3 miles before reaching South Bear Creek. This stream has a gradient of 70 feet per mile and drains forested hillsides, an agricultural valley and an agricultural headwater ridgetop. An aquaculture operation is also located adjacent to this stream. Middle Bear Creek is a Class II trout stream upstream of CTH D for 0.5 miles and a Class III trout stream downstream of CTH D for 1.8 miles.

The most recent survey, conducted in 1990, documented brown trout and rainbow trout as well as numerous forage fish species. The stream bottom was dominated by gravel and cobble. In-stream cover consisted of woody debris, boulders, overhanging grasses and some undercut banks. Middle Bear Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate that Middle Bear Creek has been regularly stocked with brown trout since 1960. Access to Middle Bear Creek is from two road crossings.

North Bear Creek

North Bear Creek, located in central Vernon County, flows in a westerly direction for 5.3 miles before meeting with South Bear Creek to form Bear Creek near La Farge. This stream has a gradient of 48 feet per mile and drains forested hillsides and agricultural valleys. North Bear Creek is a Class III trout stream for its entire length.

The most recent survey, conducted in 1990, documented brown trout and numerous forage fish species. The stream bottom was dominated by gravel and cobble. In-stream cover consisted of undercut banks and boulders. North Bear Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate that North Bear Creek has been regularly stocked with brown trout since 1960. Access to North Bear Creek is from five road crossings.

Otter Creek

Otter Creek, located in central Vernon County, flows in a southeasterly direction for 4.5 miles before reaching the Kickapoo River at La Farge. This stream has a gradient of 43 feet per mile and drains forested hillsides with agricultural activity in both valleys and ridgetops. Otter Creek is a Class III trout stream for its entire length.

The most recent survey, conducted in 1990, documented no trout but an abundance of forage fish species. The stream bottom contained equal proportions of silt, sand and gravel. In-stream cover consisted of boulders, overhanging grasses and aquatic vegetation. Otter Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate that Otter Creek was last stocked in 1999 with brown trout. Access to Otter Creek is from six road crossings.

South Bear Creek

South Bear Creek, located in central Vernon County and northwest Richland County, flows in a northerly direction for 4.1 miles before joining with North Bear Creek to form Bear Creek. This stream has a gradient of 52 feet per mile and drains forested hillsides with agricultural activity in both valleys and ridgetops. South Bear Creek is a Class II trout stream for its entire length in both Vernon (2.5 miles) and Richland (1.6) Counties. This stream is designated as an Exceptional Resource Water, (ERW), in Richland County.

The most recent biological survey, conducted in 1990, documented brown trout and numerous forage fish species. The stream bottom was dominated by sand and in-stream cover consisted of undercut banks and overhanging vegetation. South Bear Creek should be resurveyed after

conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate that South Bear Creek was last stocked with brown trout in 1998. Access to South Bear Creek is from two road crossings.

South Jug Creek

South Jug Creek, located in central Vernon County, flows in a northwesterly direction for 2.0 miles before reaching Jug Creek. This stream has a steep gradient of 100 feet per mile and drains forested hillsides and an agricultural valley. The most recent survey, conducted in 1973, documented an abundance of forage fish species but no trout. South Jug Creek is not a classified trout stream. South Jug Creek should be surveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. Reintroduction of brook trout into South Jug Creek should be considered.

Tenny Spring Creek

Tenny Spring Creek, located in south central Vernon County, flows in a northerly direction for 1.4 miles before reaching Elk Creek. This stream has a steep gradient of 100 feet per mile and drains forested hillsides and a small amount of ridgetop agricultural activity. Tenny Spring Creek is a Class I trout stream for its entire length.

The most recent survey, conducted in 1987, documented a self-sustaining brown trout population. A 1972 survey documented several forage fish species present in the stream.

Tenny Spring Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate Tenny Spring Creek has never been stocked. Access to Tenny Spring Creek is from three road crossings.

Twentyfour Valley Creek

Twentyfour Valley Creek, located in central Vernon County, flows in a southerly direction for 2.0 miles before reaching Weister Creek. This stream has a gradient of 88 feet per mile and drains forested hillsides and agriculture in both the valley and ridgetops. Twentyfour Valley Creek is a Class III trout stream for its entire length.

The most recent survey, conducted in 1990, documented brown trout and numerous forage fish species. The stream bottom was dominated by gravel and cobble. In-stream habitat consisted of boulders, woody debris, LUNKER structures and some natural undercut banks.

Twentyfour Valley Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate that Twentyfour Valley Creek was regularly stocked with brown trout from 1960 until 1996. Brook trout have been stocked since 1998. Access to Twentyfour Valley Creek is from two road crossings.

Upper Brush Creek

Upper Brush Creek, located in south central Monroe County, flows in an easterly direction for 2.6 miles before reaching Brush Creek east of Ontario. This stream has a gradient of 46 feet per mile and drains forested hillsides and agricultural valleys. Upper Brush Creek is a Class III trout stream for its entire length.

The most recent survey, conducted in 1990, documented rainbow trout and few forage fish species. The stream bottom was dominated by sand and gravel. In-stream cover consisted of undercut banks and overhanging grasses. Upper Brush Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate Upper Brush Creek has not been stocked with trout. The rainbow trout documented in the 1990 survey were likely escapees from a trout pond adjacent to the stream. Access to Upper Brush Creek is from two road crossings.

Warner Branch

Warner Branch, located in central Vernon County, flows in a northwesterly direction for 3.0 miles before reaching Warner Creek. This stream has a gradient of 60 feet per mile and drains forested hillsides with agricultural activity in both the valleys and ridgetops. Warner Branch is a Class III trout stream for its entire length.

The most recent survey, conducted in 1990, documented brown trout and numerous forage fish species. The stream bottom was dominated by sand and gravel. In-stream cover consisted of undercut banks, overhanging grasses and woody debris. Warner Branch should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate Warner Branch has been regularly stocked with brown trout since 1977. Access to Warner Branch is from three road crossings.

Warner Creek

Warner Creek, located in central Vernon County, flows in a westerly direction for 8.6 miles before reaching the Kickapoo River between Ontario and La Farge. This stream has a gradient of 32 feet per mile and drains forested hillsides, agricultural valleys and ridgetops as well as a portion of the Kickapoo Valley Reserve. Wetlands surround the lower segment of Warner Creek in the Reserve. Warner Creek is a Class II trout stream for its entire length.

The most recent survey, conducted in 1990, documented brown trout and numerous forage fish species. The stream bottom was dominated by sand and gravel. In-stream cover consisted of woody debris, undercut banks and overhanging grasses. Warner Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate Warner Creek has been stocked with brown trout regularly since 1960. Access to Warner Creek is from ten road crossings and the Kickapoo Valley Reserve.

Weister Creek

Weister Creek, located in central Vernon County, flows in a southeasterly direction for 7.8 miles before reaching the Kickapoo River north of La Farge. This stream has a gradient of 39 feet per mile and drains forested hillsides, agricultural valleys and ridgetops as well as a portion of the Kickapoo Valley Reserve. Wetlands surround the lower segment of Weister Creek within the Reserve. Weister Creek is a Class III trout stream for its entire length.

The most recent survey, conducted in 1990, documented brown trout and numerous forage fish species. The stream bottom was dominated by sand and gravel. In-stream cover consisted of woody debris and undercut banks. Weister Creek should be resurveyed after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004. WDNR records indicate that

Weister Creek has been regularly stocked with brown trout since 1960. Access to Weister Creek is from six road crossings and the Kickapoo Valley Reserve.

RECOMMENDATIONS (LW05)

- ◆ Fish and habitat surveys should be conducted of **Bear, Billings, Brush, Bufton Hollow, Camp, Chadwick Hollow, Cheyenne Valley, Elk, Goose, Indian, Jug, Middle Bear, North Bear, Otter, South Bear, South Jug, Tenny Spring, Twentyfour Valley, Upper Brush, Warner Branch, Warner, and Weister Creeks** after conclusion of the Middle Kickapoo River Priority Watershed Project in 2004.
- ◆ Reintroduction of wild brook trout into **Indian Creek, Jug Creek** and **South Jug Creek** should be considered.
- ◆ **Cheyenne Valley Creek, Camp Creek and Elk Creek** would benefit from the purchase of streambank easements from willing sellers and the restoration of in-stream habitat.
- ◆ Maintenance of WDNR owned lands adjacent to **Camp Creek** and **Elk Creek** must include tree and brush removal from streambanks to reduce beaver colonization.
- ◆ A facility plan is needed to determine what upgrades are needed at the Village of Ontario wastewater treatment facility.

Watershed Map

Streams in the Middle Kickapoo River Watershed (LW05)

Vernon, Monroe & Richland Counties

Area: 247 sq miles

Stream Name	WBIC	Length (miles)	Existing Use	Potential Use	Supporting Potential Use	Codified Use and Trout Stream Classification	Proposed Modified Use	303(d) Status	Rare Aquatic Species	Use Impairment		NPS Rank	Monitored/ Evaluated/ Unassessed	Data Level	Trend	Ref*
										Source	Impact					
Bear Creek	1193500	0-1.6	COLD III	COLD I	Part	COLD III	same	N	Y	NPS	HAB	PWP	E	B4, H3	U	14, 27
Billings Creek	1196900	0-7.7	COLD III	COLD I	Part	COLD II	same	N	Y	SB, NPS	HAB	PWP	M	B4, H4	S	9, 27
		7.7-11.3	WWFF	COLD I	Not	DEF	same	N								
Brush Creek	1198300	0.2.5	WWFF	COLD II	Not	DEF	same	N	Y	SB, PSB, FL	HAB, TEMP	PWP	E	B4, H3	U	10, 27
		2.5-10.2	COLD III	COLD II	Part	COLD III	same	N								
Bufton Hollow Creek	1193100	0-1.5	COLD I	same	Thr	COLD I / ERW	same	N	N	BDAM	HAB	PWP	U		U	26
		0.5-5	COLD I	same	Thr	COLD I / ORW	same	N	N	PSB, DCH, BDAM	HAB	PWP	E	B4, H3	U	11, 26
Camp Creek	1192700	0-1.0	WWFF	COLD I	Not	DEF	same	N	N	DCH, NPS	HAB	PWP	M	B3	I	25, 26
		1.0-2.0	COLD II	COLD I	Part	DEF	COLD II	same	N							
Cheyenne Valley Creek	1197000	0-6	COLD II	COLD I	Part	COLD II / ERW	same	N	N	NPS, FL	HAB	PWP	M	B4, H3	I	8, 27
		0-1.6	COLD I	same	Thr	COLD III	COLD I	same	N	N	PSB, DCH	HAB	PWP	E	B4, H3	I
Elk Creek	1191700	1.6-4.4	COLD I	same	Thr	COLD II / ORW	COLD I	N								
		0-3	COLD II	COLD I	Part	COLD II	same	N	Y	DCH, IMP	HAB, TEMP	PWP	E	B4, H3	U	16, 26
Goose Creek	1193400	0-0.7	COLD I	same	Thr	COLD II	COLD I	N	N	PSB	HAB	PWP	E		U	26
Hoke Creek	1195400	0-2.2	WWFF	COLD I	Not	DEF	same	N	N	SB	HAB	PWP	E	B4, H3	U	17, 27
		0-3.6	WWFF	COLD I	Not	DEF	same	Y	N	NPS	HAB	PWP	E	B4, H3	U	18, 27
Kickapoo River	1182400	61.1-108	COLD II	same	Thr	DEF	COLD II	N	Y	SB	HAB	PWP	M	B4, H2	I	27, 30
		0-1.8	COLD III	COLD I	Part	COLD III	same	N	N	NPS	HAB	PWP	M	B4, H3	U	19, 27
Middle Bear Creek	1193700	1.8-2.3	COLD II	COLD I	Part	COLD II	same	N								
		0.5-3	COLD III	COLD I	Part	COLD III	same	N	N	NPS	HAB	PWP	E	B4, H3	U	14, 27, 31
North Bear Creek	1194200	0.4-5	COLD III	COLD I	Part	COLD III	same	N	N	NPS, FL	HAB	PWP	E	B4, H3	U	20, 27
		0-2.5	COLD II	COLD I	Part	COLD III	COLD II	same	N	N	NPS	HAB	PWP	E	B4, H3	U
South Bear Creek	1193600	2.5-4.1	COLD II	COLD I	Part	COLD I / ERW	COLD II	N								
			COLD II	COLD I	Part	COLD I / ERW	COLD II	same	N							

Stream Name	WBIC	Length (miles)	Existing Use	Potential Use	Supporting Potential Use	Codified Use and Trout Stream Classification	Proposed Use	303(d) Status	Rare Aquatic Species	Use Impairment		NPS Rank	Monitored/ Evaluated/ Unassessed	Data Level	Trend	Ref*
										Source	Impact					
South Jug Creek	1195600	0-2	WWFF	COLD I	Not	DEF	same	N	N	NPS	HAB	PWP	E	B4, H2	U	3, 27
Tenny Spring Creek	1191900	0-1.4	COLD I	same	Thr	COLD III	COLD I	N	N	NPS	HAB	PWP	E	B4, H2	I	2, 4, 27
Twentyfour Valley Creek	1195000	0-2	COLD III	COLD I	Part	COLD III	same	N	N	NPS, FL	HAB	PWP	E	B4, H3	U	13, 27
Upper Brush Creek	1199000	0-2.6	COLD III	COLD II	Part	COLD III	same	N	N	SB, PSB	HAB	PWP	E	B4, H3	U	12, 27
Warner Branch	1196200	0-3	COLD III	COLD I	Part	COLD III	same	N	N	NPS	HAB	PWP	E	B4, H3	U	22, 27
Warner Creek	1195700	0-8.6	COLD II	COLD I	Part	COLD II	same	N	N	NPS	HAB	PWP	E	B4, H3	U	23, 27
Weister Creek	1194900	0-7.8	COLD III	COLD I	Part	COLD III	same	N	Y	NPS	HAB	PWP	E	B4, H3	U	24, 27
Creek 22-14 (T12NR02WS22)	1192900	0-1.0	COLD II	COLD I	Part	DEF	COLD II	N	N	NPS	HAB	PWP	E		U	26
42 Unnamed Streams		62														
Total Stream Miles		205.5														
COLD I		13.5														
COLD II		78.8														
COLD III		36.3														
WWFF		14.9														
U		62.0														

***The numbers in this column refer to the References found in the corresponding Watershed Narrative. See Appendix J: "How to Read the Stream Tables," in Chapter 7 of the State of the Lower Wisconsin River Basin Report.**

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