

Ozark/Moreau/Loutre Ecological Drainage Unit
Biological Criteria History

Fall 2001-Spring 2002

Fall Criteria

	Score = 5	Score = 3	Score = 1
TR	>68	68-34	<33
EPTT	>13	13-6	<5
BI	<7.09	7.09-8.54	>8.55
SDI	>3	3-1.5	<1.4

Spring Criteria

	Score = 5	Score = 3	Score = 1
TR	>70	70-35	<34
EPTT	>13	13-6	<5
BI	<6.49	6.49-8.54	>8.25
SDI	>2.8	1.4	<1.3

Fall 2003-Spring 2004

Fall Criteria

	Score = 5	Score = 3	Score = 1
TR	>68	68-34	<33
EPTT	>13	13-6	<5
BI	<7.05	7.05-8.52	>8.52
SDI	>3.08	3.08-1.54	<1.54

Spring Criteria

	Score = 5	Score = 3	Score = 1
TR	>71	71-36	<36
EPTT	>13	13-6	<5
BI	<6.45	6.45-8.22	>8.22
SDI	>2.80	2.80-1.40	<1.40

Fall 2005- Spring 2006

Fall Criteria

	Score = 5	Score = 3	Score = 1
TR	>68	68-34	<34
EPT Taxa	>13	13-6	<6
BI	<7.05	7.05-8.52	>8.52
SDI	>3.08	3.08-1.54	<1.54

Spring Criteria

	Score = 5	Score = 3	Score = 1
TR	>71	71-36	<36
EPT Taxa	>13	13-6	<6
BI	<6.45	6.45-8.22	>8.22
SDI	>2.80	2.80-1.40	<1.40

Current
Spring Criteria

	Score = 5	Score = 3	Score = 1
TR	>71	71-35	<35
EPTT	>17	17-9	<9
BI	<6.4	8.2-6.4	>8.2
SDI	>2.8	2.8-1.4	<1.4

Fall Criteria

	Score = 5	Score = 3	Score = 1
TR	>73	73-37	<37
EPTT	>15	15-7	<7
BI	<6.8	8.4-6.8	>8.4
SDI	>3.18	3.18-1.59	<1.59

TR=Taxa Richness

EPTT=Ephemeroptera (mayfly), Plecoptera (stonefly), Trichoptera (caddisfly) Taxa

BI=Biotic Index

SDI=Shannon Diversity Index

Criteria are based on samples from the following streams.

Spring Criteria

Boeuf Creek, Franklin Co. (n=4 samples)

Burriss Fork, Moniteau Co. (n=4)

Loutre River, Montgomery Co. (n=2)

Moniteau Creek, Cooper Co. (n=3)

Fall Criteria

Boeuf Creek (n=3)

Burriss Fork (n=2)

Loutre River (n=2)

Moniteau Creek (n=3)