



**FISHES OF
NORTHEASTEREN
ILLINOIS**



STREAM RESOURCES

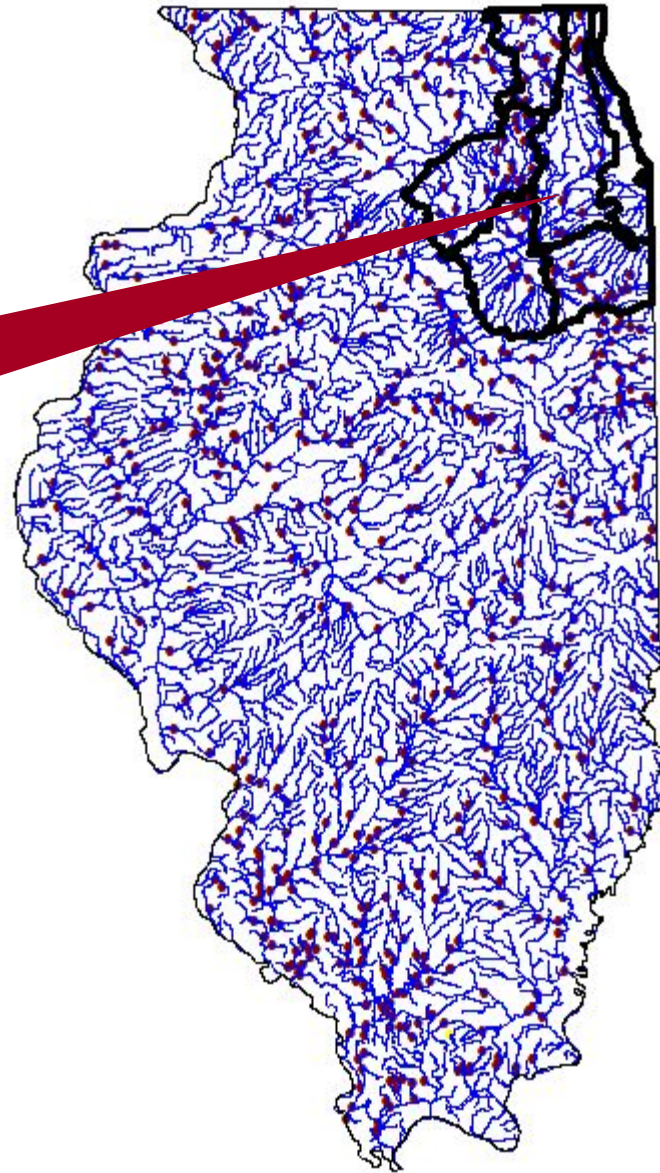
Over 32,000 miles of perennial rivers and streams

REGION 2

Fox
Des Plaines
Chicago
Kankakee
Mazon
Aux Sable

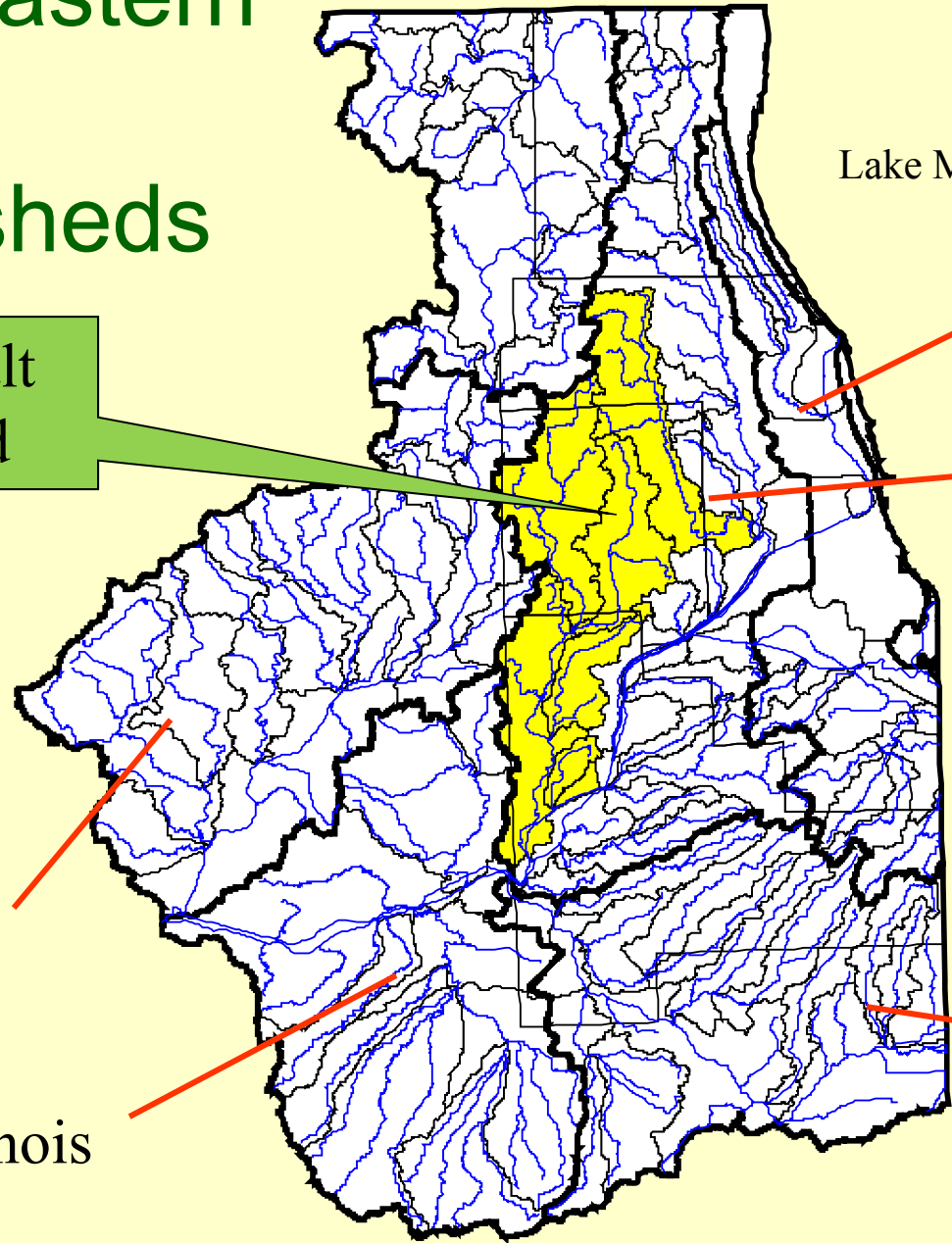
Northeastern Illinois:

- Recent glaciation (13,000 y/a)
- Wide range of habitats
 - >glacial lakes / wetland
 - >low gradient / sand, gravel
 - >high gradient / rock&cobble



Northeastern Illinois Watersheds

DuPage/Salt
Watershed



Lake Michigan

Chicago
River

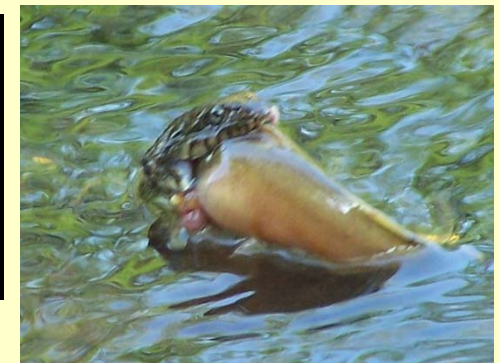
Des Plaines
River

Fox
River

Upper Illinois

Kankakee
River







Freshwater Mussels

FISH SAMPLING



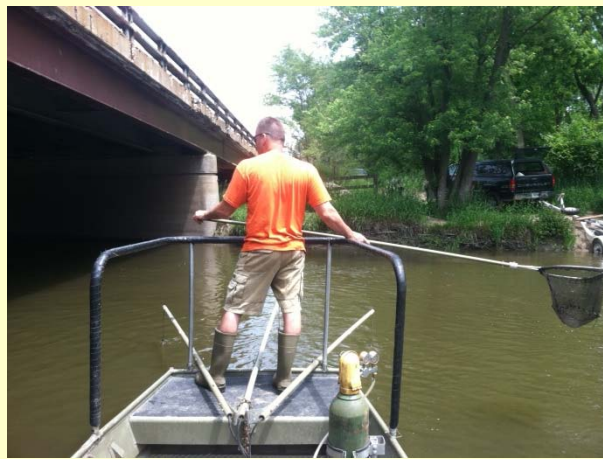
DATA APPLICATIONS

- Stream Ratings
- Fishery Management
- Watershed Planning
- Project Evaluation
- Permit Review



IDNR Fish Collections 1983-2015

Number Samples	106
Hours EF	73
Seine hauls	67
Total fish	23,496



DUPAGE/
SALT
CREEK

Total Families	16
Total Species	67
Introduced Species	4
Native species	63
State Endangered	1
State Threatened	0
% Listed Species	1.6

	DUPAGE/ SALT CREEK	CHICAGO REGION	ILLINOIS
Total Families	16	28	29
Total Species	67	161	209
Introduced Species	4	19	20
Native species	63	142	189
State Endangered	1	9	21
State Threatened	0	6	10
% Listed Species	1.6	10.6	16.4



Sportfish species

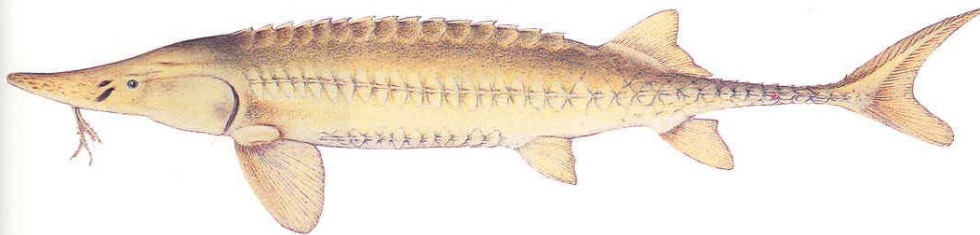


Tom Schraeder



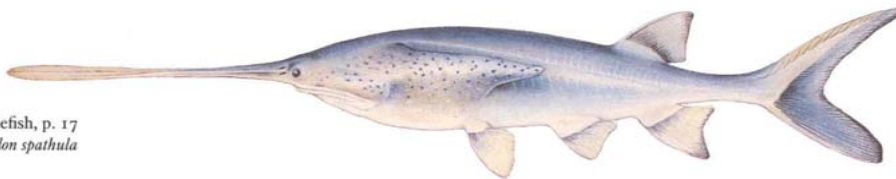
1. Chestnut lamprey, adult, p. 7
Ichthyomyzon castaneus

Lampreys



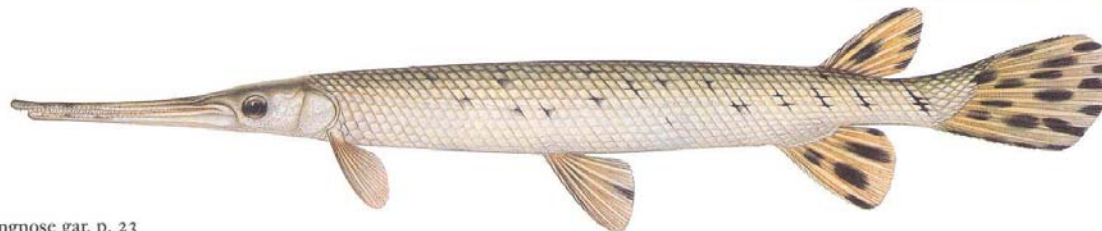
4. Shovelnose sturgeon, p. 12
Scaphirhynchus platorynchus

Sturgeon



6. Paddlefish, p. 17
Polyodon spathula

Paddlefish



8. Longnose gar, p. 23
Lepisosteus osseus

Gar



Grass pickerel



Central mudminnow



Suckermouth minnow



Blacknose dace



Stoneroller - male



Bigmouth shiner

ASIAN CARPS

Silver

Grass

Bighead



Sucker Family



Smallmouth buffalo

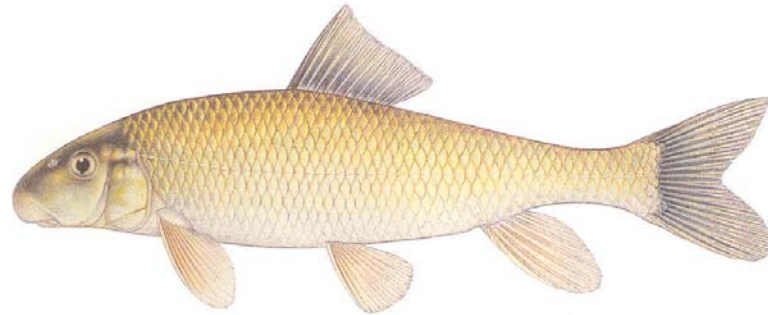


Quillback carpsucker



Spotted sucker

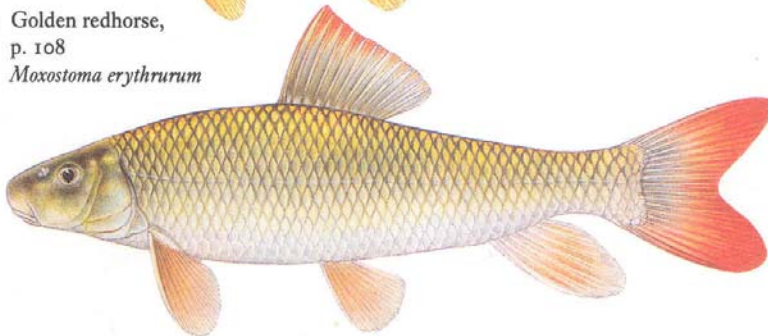
Sucker Family



73. Black redhorse, p. 107
Moxostoma duquesnei



74. Golden redhorse,
p. 108
Moxostoma erythrurum



75. Shorthead redhorse, p. 109
Moxostoma macrolepidotum



76. River redhorse,
p. 110
Moxostoma carinatum



River redhorse (T)





Creek chubsucker



Tadpole madtom



Blackstripe topminnow



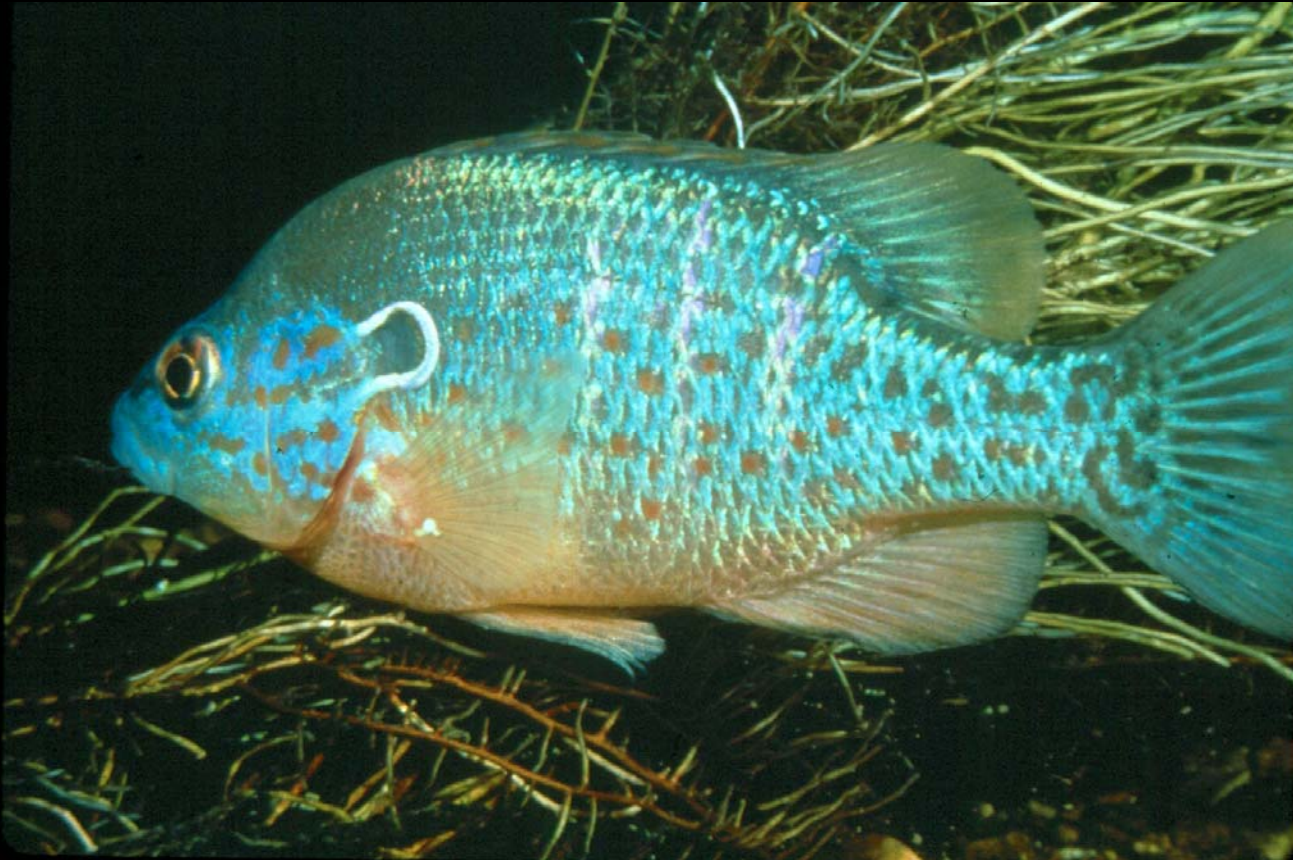
Brook silverside



Longear sunfish



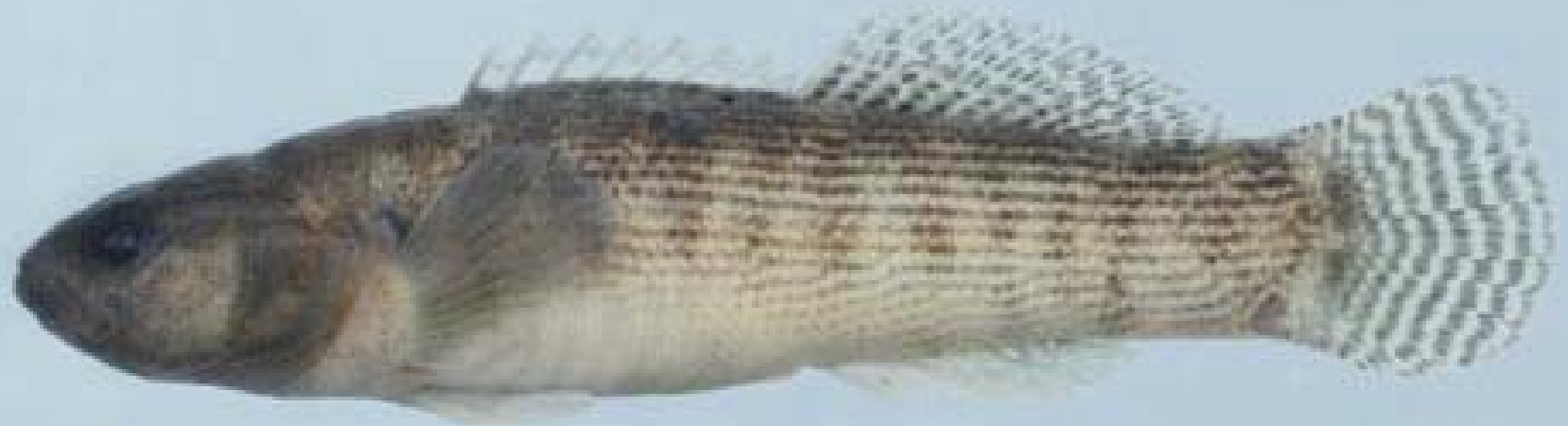
Green sunfish



Orangespotted sunfish



Johnny darter



Fantail darter



Banded darter

Rainbow darter



male



female



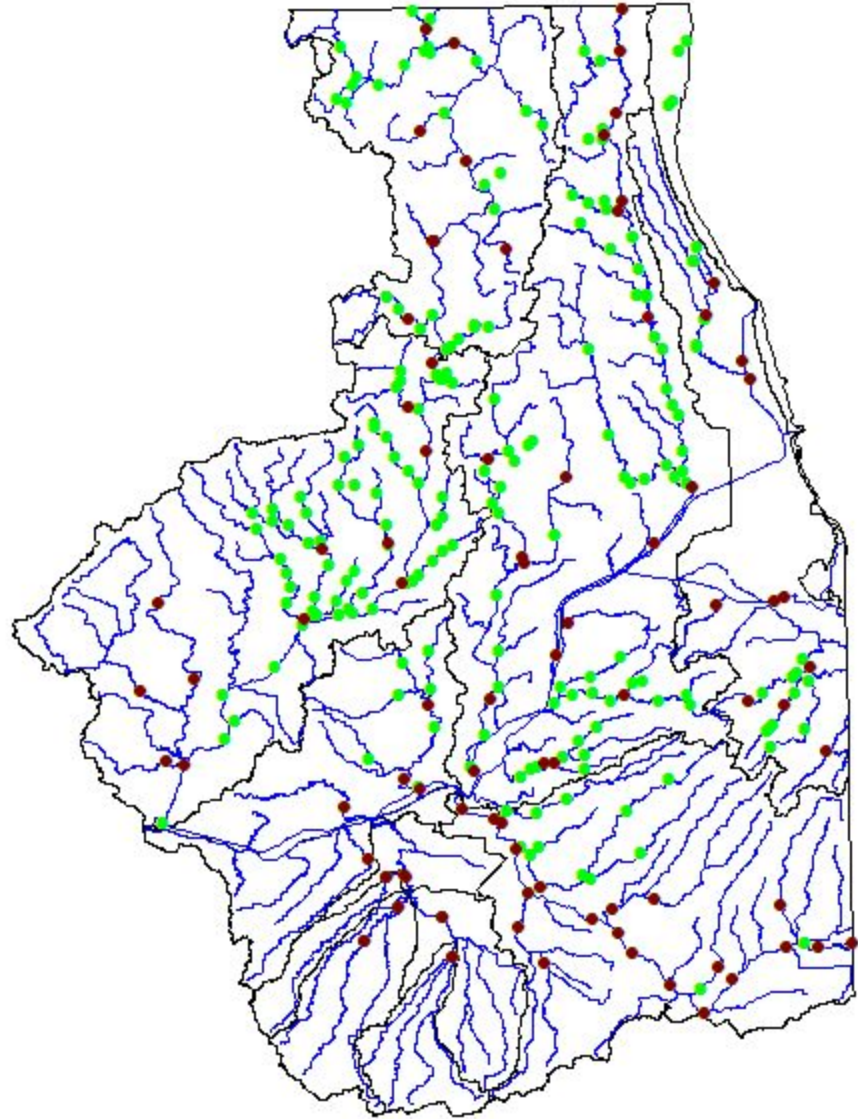
Mottled sculpin

STREAM REPORT CARD
Index of Biotic Integrity - IBI

METRIC	SCORE
No. native fish species	0-6
No. sucker species	0-6
No. sunfish species	0-6
No. intolerant species	0-6
No. minnow species	0-6
No. benthic invertivore species	0-6
Prop. specialist benthic invertivores	0-6
Prop. generalist feeders	0-6
Prop. coarse mineral spawners	0-6
Prop. tolerant species	0-6
total	0-60

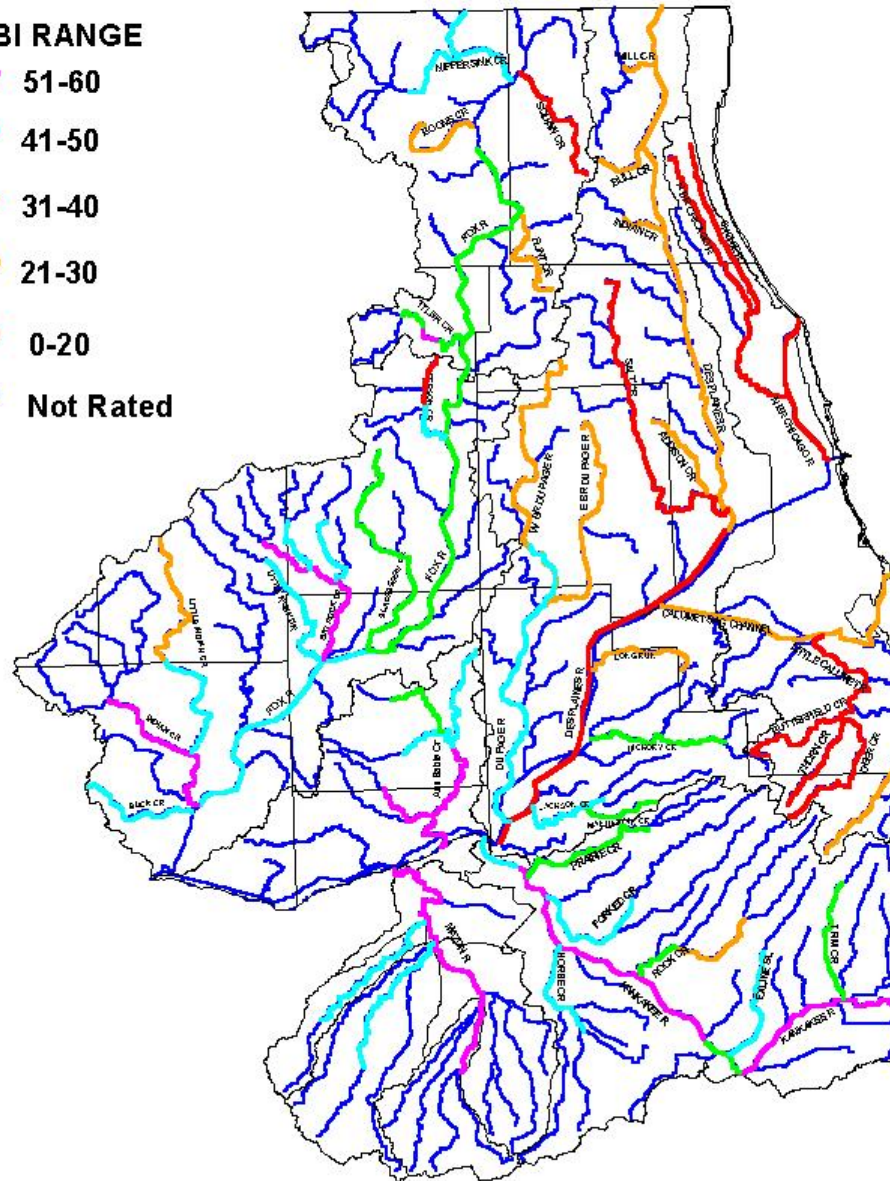
Region 2 Fish Sampling Program

- Basin Survey sites
 - large scale
 - five-year rotation
 - IEPA coop.
- Sub-basin sites
 - local scale
 - streams under threat
 - active watershed grps





Stream Ratings



SOURCES OF STREAM DEGRADATION

**Stream modification
(channelization)**



Urbanization



Pollution



Fragmentation





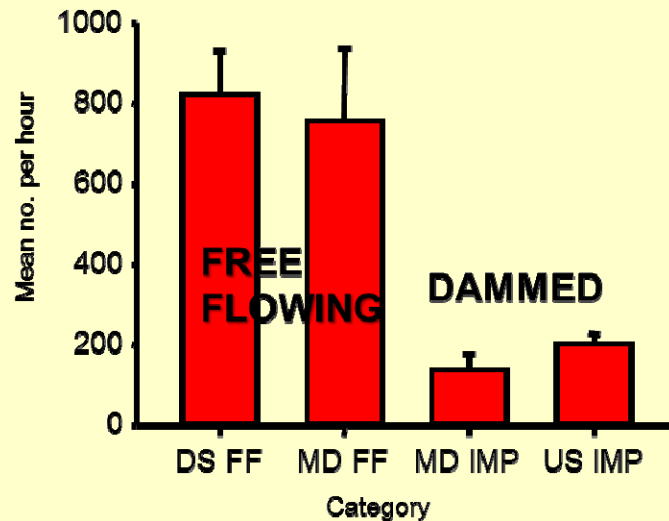
Effects of Dams

Local Effects

- Degraded habitat
- Degraded water quality
- Degraded fish and macro-invertebrate communities

System-wide Effects

- Fragmented river
- Barrier to fish migration
- Prevent recolonization of impacted and restored reaches
- Isolate important habitats



COMMON NAME	River Segment					
	Downstream			Upstream		
	Channahon	Shorewood	Fawell	McDowell	Warrenville	Warrenville
Northern pike						
Hornyhead chub						
Central stoneroller						
Suckermouth minnow						
Emerald shiner						
Striped shiner						
Bigmouth shiner						
Quillback						
Northern hog sucker						
Shorthead redhorse						
Golden redhorse						
Silver redhorse						
River redhorse						
Channel catfish						
Flathead catfish						
Stoneroller						
Tadpole madtom						
Blackstripe topminnow						
Rock bass						
Longear sunfish						
Slenderhead darter						
Johnny darter						
Banded darter						
Freshwater drum						

Fish Don't
Lie

