



Summary of Fish Species in Jackson Creek that are also found in the Lower Kankakee, DuPage and Lower Des Plaines Rivers

Submitted by Laura Barghusen, Openlands (October 5, 2009)

Exhibit _____

Common Name	Scientific Name	Jackson Cr. (IDNR - 2003)	Lower Kankakee River ⁴ (Stations F-14 ¹ , F-11 ² , F-01 ³) (IDNR - 2005)	DuPage River Below Channahon Dam (IDNR - 2003) ⁵	Hickory Cr. (near LDPR) (IDNR - 2006) ⁹	LDPR (Upstream I-55) (IDNR - 2008) ¹⁰	LDPR (Downstream I-55) (IDNR-2008) ¹¹	LDPR (Upstream I-55) (MBI - 2006) ⁶	LDPR (Downstream I-55) (MBI - 2006) ⁷	LDPR (Upstream I-55) (EA - 2004) ⁸	LDPR (Downstream I-55) (EA - 2004) ⁸
Gizzard Shard	<i>Dorosoma cepedianum</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Carp	<i>Cyprinus carpio</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Southern redbelly dace*	<i>Phoxinus erythrogaster</i>	Yes									
• Creek chub	<i>Semotilus atromaculatus</i>	Yes		Yes						Yes	
• Hornyhead chub	<i>Nocomis biguttatus</i>	Yes	Yes	Yes	Yes						
• Central stoneroller	<i>Campostoma anomalum</i>	Yes	Yes		Yes						
• Striped shiner	<i>Luxilus chrysocephalus</i>	Yes	Yes	Yes				Yes	Yes	Yes	Yes
• Redfin shiner	<i>Lythrurus umbratilus</i>	Yes		Yes (N)						Yes	Yes
• Spotfin shiner	<i>Cyprinella spiloptera</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fathead minnow	<i>Pimephales promelas</i>	Yes			Yes				Yes	Yes	Yes
• Bluntnose minnow	<i>Pimephales notatus</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bigmouth shiner	<i>Notropis dorsalis</i>	Yes			Yes						
• Sand shiner	<i>Notropis ludibundus</i>	Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes
Spottail shiner	<i>Notropis hudsonius</i>	Yes	Yes			Yes		Yes	Yes	Yes	Yes
Quillback	<i>Cariodes cyprinus</i>	Yes	Yes		Yes					Yes	Yes
• White sucker	<i>Catostomus commersoni</i>	Yes		Yes	Yes			Yes		Yes	Yes
Black redborse*	<i>Moxostoma duquesnei</i>	Yes	Yes	Yes(N)							
Golden redborse*	<i>Moxostoma erythrurum</i>	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes
• Yellow bullhead	<i>Ameiurus natalis</i>	Yes		Yes	Yes		Yes	Yes	Yes	Yes	Yes
Black bullhead+	<i>Ameiurus melas</i>	Yes	Yes		Yes					Yes	
• Tadpole madtom+	<i>Noturus gyrinus</i>	Yes						Yes			Yes
Slender madtom*	<i>Noturus exilis</i>	Yes									
• Blackstripe topminnow	<i>Fundulus nototus</i>	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes
• Rock bass	<i>Ambloplites rupestris</i>	Yes	Yes		Yes		Yes	Yes	Yes	Yes	Yes
• Largemouth bass	<i>Micropterus salmoides</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Smallmouth bass	<i>Micropterus dolomieu</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Green sunfish	<i>Lepomis cyanellus</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bluegill x Green sunfish Hybrid	<i>Lepomis macrochirus x cyanellus</i>	Yes		Yes	Yes		Yes	Yes	Yes	Yes	Yes
• Bluegill	<i>Lepomis macrochirus</i>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
• Longear sunfish	<i>Lepomis megalotis</i>	Yes	Yes	Yes				Yes	Yes	Yes	Yes
• Orangespotted sunfish	<i>Lepomis humilis</i>	Yes	Yes	Yes				Yes	Yes	Yes	Yes
• Blackside darter	<i>Percina maculata</i>	Yes	Yes						Yes	Yes	
• Johnny darter	<i>Etheostoma nigrum</i>	Yes	Yes	Yes	Yes					Yes	Yes
Rainbow darter*	<i>Etheostoma caeruleum</i>	Yes	Yes								
Orangethroat darter	<i>Etheostoma spectabile</i>	Yes			Yes					Yes	
• Fantail darter+	<i>Etheostoma flabellare</i>	Yes			Yes						

Blue - intolerant species

+ - infrequently taken

(N) – Newly Found Species (In 2003, IDNR found 9 new species on the Lower DuPage at GC-01, including: Mimic shiner, River redborse, Slenderhead darter, Logperch, Red shiner, Longnose gar, Striped bass x White bass hybrid, Smallmouth buffalo, Black redborse, Redfin shiner)

* – Species of Special Concern (Chicago Wilderness 2005) – Includes fish with limited distribution within Northeastern Illinois or that are especially vulnerable to degradation associated with urbanization.

• – Fish species found in Jackson Creek at Sampling Station GC-03 (See Exhibit 42)

1 – Kankakee River confluence with the Lower Des Plaines River

2 – Kankakee River at Wilmington

3 – Kankakee River at I-55

4 – See also Exhibit 43

5 – Sampling Station GB-01 on the Lower DuPage River below the Channahon Dam (approximately 1 mile stretch)

6 – Exh. 20, 21: MBI 2006 Fish Data for LDPR Stations (River Miles 278 to 286) – Upstream of I-55 in the rulemaking area.

7 – Exh. 20, 21: MBI 2006 Fish Data for LDPR Stations (River Miles 273 to 278) – Downstream of I-55 outside the rulemaking area.

8 – IEPA, Attachment MM (Table 5, p. 3-13)

9 – Hickory Creek Sampling Station HC-01, at Richard Street is closest to the confluence with the Lower Des Plaines River

10 – Des Plaines River Sampling Station G-12, downstream of the Brandon Lock

11 – Des Plaines River Sampling Station G-01 at (and directly below) the I-55 bridge

Index of Biotic Integrity Scores by IDNR and MBI for Jackson Creek, Kankakee River, Lower DuPage River and the Lower Des Plaines River

Station No. / IBI Rating	Jackson Creek (2003 IDNR Data)		Kankakee River (2005 IDNR Data)		Lower DuPage River (2003 IDNR Data)		Hickory Creek (2006 IDNR Data)		Lower Des Plaines River (Above I-55) (2006 MBI Data)		Lower Des Plaines River (Below I-55) (2006 MBI Data)		Lower Des Plaines River (Above I-55 at GC-12) (2008 IDNR Data)		Lower Des Plaines River (Below I-55 at GC-01) (2008 IDNR Data)	
	Station No.	IBI Rating	Station No.	IBI Rating	Station No.	IBI Rating	Station No.	IBI Rating	Station No.	IBI Rating	Station No.	IBI Rating	Station No.	IBI Rating	Station No.	IBI Rating
	JC-01	45	F-01	37	GB-01	57	HC-01	32	DP-06	24, 26	DP-08	32, 34	G-12	29	G-01	26
	JC-02	46	F-11	44					DP-07	24, 24	DP-09	38, 38				
	JC-03	40	F-14	31					Brandon Tailwater	26, 32	DP-17	24, 34				
											DP-18	32, 34				

Data Sources

“Evaluation of Fish Communities and Stream Quality in the Jackson Creek Watershed (Des Plaines River Basin) September 2003,” Stephen M. Pescitelli and Robert C. Rung (Illinois Dept. of Natural Resources), Aug. 2005.

“Status of Fish Communities and Sport Fishery in the Kankakee River and Tributary Streams: 2005 Basin Survey,” Stephen M. Pescitelli and Robert C. Rung (Illinois Dept. of Natural Resources), Apr. 2008.

Exhibit 43: “Kankakee River Fish Population Survey Results – July, 2005,” Illinois Dept. of Natural Resources – Fisheries Division.

“Status of Fish Communities and Stream Quality in the Des Plaines and DuPage Rivers: 2003 Basin Survey,” Stephen M. Pescitelli and Robert C. Rung (Illinois Dept. of Natural Resources), Dec. 2005. (See also Exh. 42.)

Exhibit 20: Midwest Biodiversity Institute (MBI) Fish Data Sheets, July and Sept. 2006. (Of note, the I-55 Bridge is located at approximately river mile 278 on the LDPR, and the Brandon Lock and Dam is located at approximately river mile 286 on the LDPR.) (Prepared for U.S. EPA.)

Exhibit 21: “Boat IBI scores and metrics at boat sites in the Des Plaines River sampled by MBI during 2006.” (Prepared for U.S. EPA.) (IBI utilizes Ohio metric.)

Illinois EPA Att. MM: “2004 Lower Des Plaines River Fisheries Investigation RM 274.4-285.5,” EA Engineering, Science and Technology (Prepared for Midwest Generation), Nov. 2005. (See Table 5. “Summary of the Number of Fish Collected Within Each Segment of the Lower Des Plaines River, 2004.”)

“Des Plaines River and Tributaries Fish Population Survey – 2008,” Illinois Department of Natural Resources – Fisheries, Streams Region 2 (IDNR Data Table).

“Status of Fish Communities and Stream Quality in the Hickory Creek Watershed, June 2006,” Illinois Department of Natural Resources – Div. of Fisheries, Region 2 Streams Program.

Becker, George. 1983. Fishes of Wisconsin. Univ. WI press, Madison, WI, p vii-1052. (Fish Migration Source)



Golden Redhorse, a Species of Special Concern (Recorded in Jackson Creek in 2003)



Rainbow Darter (Recorded in Jackson Creek in 2003)



River Redhorse (State-Threatened Fish Recruited into Lower DuPage River in 2003)