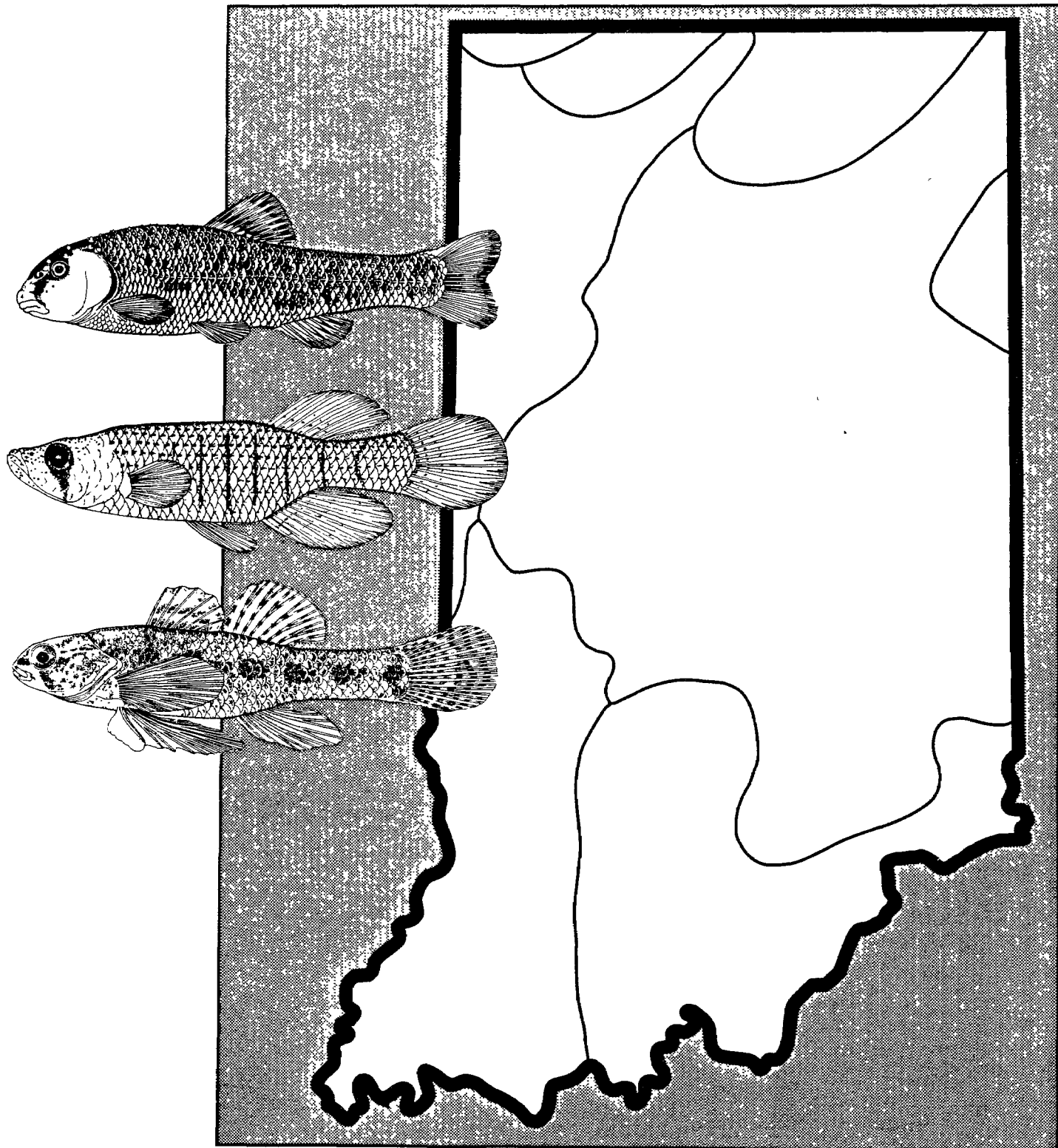




Development of Index of Biotic Integrity Expectations for the Ecoregions of Indiana

I. CENTRAL CORN BELT PLAIN APPENDICES



DEVELOPMENT OF INDEX OF BIOTIC INTEGRITY EXPECTATIONS
FOR THE ECOREGIONS OF INDIANA. I. CENTRAL CORN BELT PLAIN APPENDICES

Thomas P. Simon
U.S. Environmental Protection Agency
Environmental Sciences Division
Monitoring and Quality Assurance Branch: Ambient Monitoring Section
77 West Jackson, SQ-14J
Chicago, IL 60604

November 5, 1991

1

[Faint handwritten notes, likely bleed-through from the reverse side.]

T.P. Simon. 1991. Development of Index of Biotic Integrity expectations for the ecoregions of Indiana. I. Central Corn Belt Plain. U.S. Environmental Protection Agency, Region V, Environmental Sciences Division, Monitoring and Quality Assurance Branch: Ambient Monitoring Section, Chicago, IL. EPA 905/9-91/025.

U.S. Environmental Protection Agency
Publication Distribution Center, DDD
11027 Kenwood Road, Bldg. 5 - Dock 63
Cincinnati, OH 45242

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
i. List of Figures	iii
ii. List of Tables	vii
iii. Executive Summary	ix
iv. Acknowledgements	xi
 1.0 INTRODUCTION	 1
Definition of Reference Conditions	3
Criteria for Selecting Reference Sites	4
 2.0 STUDY AREA	 5
Physiographic Provinces	5
Ecoregions	7
Natural Areas	9
 3.0 MATERIALS AND METHODS	 12
Sampling	12
Site specific	12
Habitat	14
Community Analysis	14
Metrics	17
Scoring Modifications	76
 4.0 RESULTS AND DISCUSSION	 77
4.1 Kankakee River Basin	77
4.2 Iroquois River Basin	82
4.3 Lake Michigan Basins	83
East Branch Little Calumet Division	83
Lake Michigan Division	84
 6.0 REFERENCES	 88
 7.0 APPENDIX	
A. Adjacent State comparisons of tolerance classifications for computing the Index of Biotic Integrity for Indiana taxa.	
B. Adjacent State comparisons of feeding guilds for computing the Index of Biotic Integrity for Indiana taxa.	
C. Adjacent State comparisons of reproductive guilds for computing the Index of Biotic Integrity for Indiana taxa.	
D. Site Specific Index of Biotic Integrity scores for each of the stations sampled in the Central Corn Belt Plain Ecoregion.	
E. Fish nomenclature changes for the species of fish occurring within the political boundaries of Indiana.	

Central Corn Belt Plain Ecoregion

APPENDIX

- A. Adjacent State comparisons of tolerance classifications for computing the Index of Biotic Integrity for Indiana taxa.
- B. Adjacent State comparisons of feeding guilds for computing the Index of Biotic Integrity for Indiana taxa.
- C. Adjacent State comparisons of Reproductive guilds for computing the Index of Biotic Integrity for Indiana taxa.
- D. Site Specific Index of Biotic Integrity scores for each of the stations sampled in the Central Corn Belt Plain Ecoregion.
- E. Fish nomenclature changes for the species of fish occurring within the political boundaries of Indiana.

Appendix A. Adjacent State comparisons of tolerance classifications¹ for computing the Index of Biotic Integrity for Indiana taxa.

<u>Petromyzontiformes-lampreys</u>			
<u>Petromyzontidae</u> - lamprey	<u>IN</u>	<u>OH</u>	<u>IL</u>
<u>Ichthyomyzon bdellium</u> (Jordan), Ohio lamprey	S	S	
<u>I. castaneus</u> Girard, chestnut lamprey	-		
<u>I. fossor</u> Reighard and Cummins, northern brook lamprey	S	R	
<u>I. unicuspis</u> Hubbs and Trautman, silver lamprey	-	-	
<u>Lampetra aepyptera</u> (Abbott), least brook lamprey	R	-	
<u>L. appendix</u> (DeKay), American brook lamprey	R	S	
<u>Petromyzon marinus</u> Linnaeus, sea lamprey	-	-	
<u>Acipenseridae - paddlefish, sturgeons</u>			
<u>Polyodontidae</u> - paddlefish			
<u>Polyodon spatula</u> (Walbaum), paddlefish	S	S	
<u>Acipenseridae</u> - sturgeon			
<u>Acipenser fulvescens</u> Rafinesque, lake sturgeon	-	-	
<u>Scaphirhynchus platyrhynchus</u> (Rafinesque), shovelnose sturgeon	-	-	
<u>Lepisosteiformes - gars</u>			
<u>Lepisosteidae</u> - gars			
<u>Atractosteus spatula</u> (Lacepede), alligator gar	-	-	
<u>Lepisosteus oculatus</u> Winchell, spotted gar	-	-	
<u>L. osseus</u> Linnaeus, longnose gar	-	-	
<u>L. platostomus</u> Rafinesque, shortnose gar	-	-	
<u>Amiiformes - bowfin</u>			
<u>Amiidae</u> - bowfin			
<u>Amia calva</u> Linnaeus, bowfin	-	-	
<u>Anguilliformes - eels</u>			
<u>Anguillidae</u> - eel			
<u>Anguilla rostrata</u> (Lesueur), American eel	-	-	
<u>Clupeiformes - herring, shad</u>			
<u>Clupeidae</u> - herring			
<u>Alosa chrysochloris</u> (Rafinesque), skipjack herring	-	-	
<u>A. pseudoharengus</u> (Wilson), alewife	-	-	
<u>Dorosoma cepedianum</u> (Lesueur), gizzard shad	-	-	
<u>D. petenense</u> (Gunther), threadfin shad	-	-	
<u>Osteoglossiformes - mooneye</u>			
<u>Hiodontidae</u> - mooneye			
<u>Hiodon alosoides</u> (Rafinesque), goldeye	R	R	
<u>H. tergisus</u> Lesueur, mooneye	R	R	I
<u>Salmoniformes - trout, salmon, whitefish</u>			
<u>Salmonidae</u> - salmon and whitefish			
<u>Coregonus artedii</u> Lesueur, cisco or lake herring	-	-	I
<u>C. clupeaformis</u> (Mitchill), lake whitefish	-	-	I
<u>C. hoyi</u> (Gill), bloater	-	-	I
<u>C. zenithicus</u> (Jordan and Evermann), shortjaw cisco	-	-	
<u>Oncorhynchus mykiss</u> Walbaum, rainbow trout	M	-	I
<u>O. kisutch</u> (Walbaum), coho salmon	M	-	I
<u>O. tshawytscha</u> (Walbaum), chinook salmon	M	-	I
<u>Salvelinus fontinalis</u> (Mitchell), brook trout	M	-	I
<u>S. namaycush</u> (Walbaum), lake trout	M	-	I
<u>Salmo salar</u> (Walbaum), Atlantic salmon	M	-	
<u>S. trutta</u> Linnaeus, brown trout	M	-	I
<u>Omeridae</u> - smelt			
<u>Omerus mordax</u> (Mitchill), rainbow smelt	-	-	

	IN	OH	IL
Catostomidae - suckers and buffalo			
<u>Cycleptus elongatus</u> (Lesueur), blue sucker	R	R	I
<u>Carpiodes carpio</u> (Rafinesque), river carpsucker	-	-	
<u>C. cyprinus</u> (Lesueur), quillback	-	-	
<u>C. velifer</u> (Rafinesque), highfin carpsucker	S	-	I
<u>Catostomus catostomus</u> (Forster), longnose sucker	-	-	
<u>C. commersoni</u> Lacepede, white sucker	T	T	
<u>Erimyzon oblongus</u> (Mitchill), creek chubsucker	-	-	
<u>E. sucetta</u> (Lacepede), lake chubsucker	-	-	I
<u>Hypentilium nigricans</u> (Lesueur), northern hogsucker	M	M	I
<u>Ictiobus bubalus</u> (Rafinesque), smallmouth buffalo	-	-	
<u>I. cyprinellus</u> (Valenciennes), bigmouth buffalo	-	-	
<u>I. niger</u> (Rafinesque), black buffalo	-	-	
<u>Minytrema melanops</u> (Rafinesque), spotted sucker	-	-	
<u>Moxostoma anisurum</u> (Rafinesque), silver redhorse	M	M	I
<u>M. carinatum</u> (Cope), river redhorse	R	I	I
<u>M. duquesnei</u> (Lesueur), black redhorse	R	I	I
<u>M. erythrum</u> (Rafinesque), golden redhorse	M	M	
<u>M. macrolepidotum</u> (Lesueur), shorthead redhorse	M	M	I
<u>M. valenciennesi</u> Jordan, greater redhorse	R	R	
Siluriformes - bullhead and catfish			
Ictaluridae - bullhead and catfish			
<u>Ameiurus catus</u> (Linnaeus), white catfish	-	-	
<u>A. melas</u> (Rafinesque), black bullhead	T	P	
<u>A. natalis</u> (Lesueur), yellow bullhead	P	T	
<u>A. nebulosus</u> (Lesueur), brown bullhead	P	T	
<u>Ictalurus furcatus</u> (Lesueur), blue catfish	-	-	
<u>I. punctatus</u> (Rafinesque), channel catfish	-	-	
<u>Noturus eleutherus</u> Jordan, mountain madtom	R	R	I
<u>N. exilis</u> Nelson, slender madtom	R		I
<u>N. flavus</u> Rafinesque, stonecat	I	I	I
<u>N. gyrinus</u> (Mitchill), tadpole madtom	-	-	
<u>N. miurus</u> Jordan, brindled madtom	R	I	I
<u>N. nocturnus</u> Jordan and Gilbert, freckled madtom	R		
<u>N. stigmosus</u> Taylor, northern madtom	R	R	I
<u>Pylodictis olivaris</u> (Rafinesque), flathead catfish	-	-	
Percopsiformes - cavefish, pirate perch, trout-perch			
Amblyopsidae - cavefish			
<u>Amblyopsis spelaea</u> DeKay, northern cavefish	S		
<u>Typhlichthys subterraneus</u> Girard, southern cavefish	S		
Apherododeridae - pirate perch			
<u>Aphredoderus sayanus</u> (Gilliams), pirate perch	-	-	
Percopsidae - trout-perch			
<u>Percopsis omiscomaycus</u> (Walbaum), trout-perch	-	-	
Gadiformes - cod			
Gadidae - cod			
<u>Lota lota</u> (Linnaeus), burbot	-	-	
Atheriniformes - topminnows, silversides			
Fundulidae - topminnows			
<u>Fundulus catenatus</u> (Storer), northern studfish	R		
<u>F. diaphanus</u> (Lesueur), banded killifish	-	S	
<u>F. dispar</u> (Agassiz), northern starhead topminnow	R		
<u>F. notatus</u> (Rafinesque), blackstripe topminnow	-	-	
Poeciliidae - live-bearing fishes			
<u>Gambusia affinis</u> (Baird and Girard), mosquitofish	-	-	
Atherinidae - silversides			
<u>Labidesthes sicculus</u> (Cope), brook silverside	M	M	

	IN	OH	IL
<u>Umbridae</u> - mudminnows			
<u>Umbr</u> <u>limi</u> (Kirtland), central mudminnow	T	T	
<u>Esocidae</u> - pikes			
<u>Esox</u> <u>americanus</u> Gmelin, grass pickerel	P	P	
<u>E.</u> <u>lucius</u> Linnaeus, northern pike	-	-	I
<u>E.</u> <u>masquinongy</u> Mitchill, muskellunge	-	-	
<u>Cypriniformes</u> - carps and minnows			
<u>Cyprinidae</u> - carps and minnows			
<u>Campostoma</u> <u>anomulum</u> (Rafinesque), stoneroller	-	-	
<u>C.</u> <u>oligolepis</u> Hubbs and Greene, largescale stoneroller	-		I
<u>Carassius</u> <u>auratus</u> (Linnaeus), goldfish	T	T	
<u>Clinostomus</u> <u>elongatus</u> (Kirtland), redside dace	R	I	
<u>Couesius</u> <u>plumbeus</u> (Agassiz), lake chub	-	-	
<u>Ctenopharyngodon</u> <u>idella</u> Valenciennes, grass carp	T		
<u>Cyprinella</u> <u>lutrensis</u> (Baird and Girard), red shiner	T	-	
<u>C.</u> <u>spiloptera</u> Cope, spotfin shiner	-	-	I
<u>C.</u> <u>whipplei</u> (Girard), steelcolor shiner	-	P	I
<u>Cyprinus</u> <u>carpio</u> Linnaeus, carp	T	T	
<u>Ericymba</u> <u>buccata</u> Cope, silverjaw minnow	-	-	
<u>Erimystax</u> <u>dissimilis</u> Kirtland, streamline chub	R	R	
<u>E.</u> <u>x-punctata</u> Hubbs and Crowe, gravel chub	M	M	
<u>Extrarius</u> <u>aestavalis</u> Girard, speckled chub	R	S	
<u>Hybognathus</u> <u>hayi</u> Jordan, cypress minnow	-	-	
<u>H.</u> <u>nuchalis</u> Agassiz, central silvery minnow	-	-	I
<u>H.</u> <u>regius</u> Girard, eastern silvery minnow	-	-	
<u>Hybopsis</u> <u>amblops</u> (Rafinesque), bigeye chub	I	I	I
<u>H.</u> <u>amnis</u> Hubbs and Greene, pallid shiner	R		I
<u>Hypophthalmichthys</u> <u>molitrix</u> Valenciennes, silver carp	T		
<u>Luxilus</u> <u>chrysocephalus</u> (Rafinesque), striped shiner	-	-	
<u>L.</u> <u>cornutus</u> (Mitchell), common shiner	-	-	
<u>Lythrurus</u> <u>ardens</u> (Cope), rosefin shiner	M	M	
<u>L.</u> <u>fumeus</u> Evermann, ribbon shiner	-	-	
<u>L.</u> <u>umbratilis</u> (Girard), redfin shiner	-	-	
<u>Macrhybopsis</u> <u>storeriana</u> (Kirtland), silver chub	-	-	
<u>Nocomis</u> <u>biguttatus</u> (Kirtland), hornyhead chub	I	I	
<u>N.</u> <u>micropogon</u> (Cope), river chub	I	I	I
<u>Notemigonus</u> <u>crysoleucus</u> (Mitchell), golden shiner	T	T	
<u>Notropis</u> <u>anogenus</u> Forbes, pugnose shiner	S	S	I
<u>N.</u> <u>atherinoides</u> Rafinesque, emerald shiner	-	-	
<u>N.</u> <u>arionmus</u> (Cope), popeye shiner	S	S	
<u>N.</u> <u>blennius</u> (Girard), river shiner	-	I	
<u>N.</u> <u>boops</u> Gilbert, bigeye shiner	I	I	
<u>N.</u> <u>buchanani</u> Meek, ghost shiner	-	-	
<u>N.</u> <u>chalybaeus</u> (Cope), ironcolor shiner	I		I
<u>N.</u> <u>dorsalis</u> (Agassiz), bigmouth shiner	-	-	
<u>N.</u> <u>heterodon</u> (Cope), blacknose shiner	R	R	I
<u>N.</u> <u>heterolepis</u> Eigenmann and Eigenmann, blackchin shiner	S	S	I
<u>N.</u> <u>hudsonius</u> (Clinton), spottail shiner	P	P	
<u>N.</u> <u>ludibundus</u> Cope, sand shiner	M	M	
<u>N.</u> <u>photogenis</u> (Cope), silver shiner	R	I	
<u>N.</u> <u>rubellus</u> (Agassiz), rosyface shiner	I	I	I
<u>N.</u> <u>texanus</u> (Girard), weed shiner	R		I
<u>N.</u> <u>volucellus</u> (Cope), mimic shiner	I	I	I
<u>Opsopoeodus</u> <u>emiliae</u> Hay, pugnose minnow	R	R	I
<u>Phenacobius</u> <u>mirabilis</u> (Girard), suckermouth minnow	-	-	
<u>Phoxinus</u> <u>erythrogaster</u> (Rafinesque), southern redbelly dace -	-	-	I
<u>Pimephales</u> <u>notatus</u> (Rafinesque), bluntnose minnow	T	T	
<u>P.</u> <u>promelas</u> Rafinesque, fathead minnow	T	T	
<u>P.</u> <u>vigilax</u> (Baird and Girard), bullhead minnow	-	-	I
<u>Rhinichthys</u> <u>atratulus</u> Agassiz, blacknose dace	T	T	I
<u>R.</u> <u>cataractae</u> (Valenciennes), longnose dace	R	R	
<u>Semotilus</u> <u>atromaculatus</u> (Mitchill), creek chub	T	T	

	<u>IN</u>	<u>OH</u>	<u>IL</u>
Gasterosteiformes - sticklebacks			
Gasterosteidae - sticklebacks			
<i>Culaea inconstans</i> (Kirtland), brook stickleback	-	-	
<i>Pungitius pungitius</i> (Linnaeus), ninespine stickleback	-		
Perciformes - basses, sunfish, perch, darters			
Moronidae - temperate basses			
<i>Morone chrysops</i> (Rafinesque), white bass	-	-	
<i>M. mississippiensis</i> Jordan and Eigenmann, yellow bass	-		
<i>M. saxatilis</i> (Walbaum), striped bass	-		
Centrarchidae - black bass and sunfish			
<i>Ambloplites rupestris</i> (Rafinesque), rock bass	M	-	I
<i>Centrarchus macropterus</i> (Lacepede), flier	-		
<i>Lepomis cyanellus</i> Rafinesque, green sunfish	T	T	
<i>L. gibbosus</i> (Linnaeus), pumpkinseed	P	P	
<i>L. gulosus</i> (Cuvier), warmouth	-	-	
<i>L. humilis</i> (Girard), orangespotted sunfish	-	-	
<i>L. macrochirus</i> Rafinesque, bluegill	P	P	
<i>L. megalotis</i> (Rafinesque), longear sunfish	M	M	I
<i>L. microlophus</i> (Gunther), redear sunfish	-	-	
<i>L. punctatus</i> (Valenciennes), spotted sunfish	-		
<i>Micropterus dolomieu</i> Lacepede, smallmouth bass	M	M	I
<i>M. punctulatus</i> Rafinesque, spotted bass	-	-	
<i>M. salmoides</i> (Lacepede), largemouth bass	-	-	
<i>Pomoxis annularis</i> Rafinesque, white crappie	-	-	
<i>P. nigromaculatus</i> (Lesueur), black crappie	-	-	
Elassomatidae - pygmy sunfish			
<i>Elassoma zonatum</i> Jordan, banded pygmy sunfish	-		
Percidae - perch and darters			
<i>Ammocrypta clara</i> Jordan and Meek, western sand darter	R		I
<i>A. pellucida</i> (Agassiz), eastern sand darter	R	R	I
<i>Etheostoma asprigene</i> (Forbes), mud darter	-		
<i>E. blennioides</i> (Rafinesque), greenside darter	M	M	I
<i>E. caeruleum</i> Storer, rainbow darter	M	M	I
<i>E. camurum</i> (Cope), bluebreast darter	R	R	I
<i>E. chlorosoma</i> (Hay), bluntnose darter	-		
<i>E. exile</i> (Girard), Iowa darter	-	-	I
<i>E. flabellare</i> Rafinesque, fantail darter	-	-	I
<i>E. gracile</i> (Girard), slough darter	-		
<i>E. histrio</i> (Jordan and Gilbert), harlequin darter	S	R	
<i>E. kennicotti</i> (Putnam), stripetail darter	-		
<i>E. maculatum</i> Kirtland, spotted darter	R	R	
<i>E. microperca</i> Jordan and Gilbert, least darter	-	-	I
<i>E. nigrum</i> Rafinesque, johnny darter	-	-	
<i>E. spectabile</i> (Agassiz), orangethroat darter	-	-	I
<i>E. squamiceps</i> Jordan, spottail darter	-		I
<i>E. tippecanoe</i> Jordan and Evermann, tippecanoe darter	R	R	
<i>E. variatum</i> Kirtland, variegate darter	R	I	
<i>E. zonale</i> (Cope), banded darter	I	I	I
<i>Perca flavescens</i> (Mitchill), yellow perch	-	-	
<i>Percina caprodes</i> (Rafinesque), logperch	M	M	
<i>P. copelandi</i> (Jordan), channel darter	S	S	
<i>P. evides</i> (Jordan and Copeland), gilt darter	R	S	
<i>P. maculata</i> (Girard), blackside darter	-	-	
<i>P. phoxocephala</i> (Nelson), slenderhead darter	I	R	I
<i>P. sciera</i> (Swain), dusky darter	M	M	I
<i>P. shumardi</i> (Girard), river darter	-	-	
<i>Stizostedion canadense</i> (Smith), sauger	-	-	
<i>S. vitreum</i> (Mitchill), walleye	-	-	
Sciaenidae - drum			
<i>Aplodinotus grunniens</i> Rafinesque, freshwater drum	P	P	
Cottidae - sculpins			
<i>Cottus bairdi</i> Girard, mottled sculpin	-	-	I

	<u>IN</u>	<u>OH</u>	<u>IL</u>
<u>C. carolinæ</u> (Gill), banded sculpin	-		I
<u>C. cognatus</u> Richardson, slimy sculpin	-	-	
<u>Myoxocephalus thompsoni</u> (Girard), deepwater sculpin	-	-	
<u>Hypothetical:</u>			
<u>Fundulus olivaceus</u> (Storer), blackspotted topminnow	-		
<u>Hybognathus hankinsoni</u> Hubbs, brassy minnow	-		
<u>Percina vigil</u> Hay, yellow saddleback darter	M		
<u>Scardinius erythrophthalmus</u> (Linnaeus), rudd	T		
<u>Extirpated:</u>			
<u>Alosa alabamae</u> Jordan and Evermann, Alabama shad	-		
<u>Coregonus nigripinnis</u> (Gill), blackfin cisco	S		
<u>C. reighardi</u> (Koelz), shortnose cisco	S		
<u>Crystallaria asprella</u> Jordan, crystal darter	S	S	
<u>Esox masquinongy</u> Mitchill, Great Lakes Muskellunge	-	-	
<u>Lagochila lacera</u> Jordan and Brayton, harelip sucker	S		
<u>Lepomis symmetricus</u> Forbes, bantam sunfish	-		
<u>Percina uranidea</u> (Jordan and Gilbert), stargazing darter	S		

Tolerance Categories: (See text for explanation)

- R - Rare Intolerant
- S - Special Intolerant
- I - Common Intolerant
- M - Moderately Intolerant
- T - Highly Tolerant
- P - Moderately Tolerant
- - Tolerance classification moderate

Appendix B. Adjacent State comparisons of feeding guilds¹ for computing the Index of Biotic Integrity for Indiana taxa.

Petromyzontiformes-lampreys			
<u>Petromyzontidae</u> - lamprey	<u>IN</u>	<u>OH</u>	<u>IL</u>
<u>Ichthyomyzon bdellium</u> (Jordan), Ohio lamprey	P	P	
<u>I. castaneus</u> Girard, chestnut lamprey	P		
<u>I. fossor</u> Reighard and Cummins, northern brook lamprey	F	F	
<u>I. unicuspis</u> Hubbs and Trautman, silver lamprey	P	P	
<u>Lampetra aepyptera</u> (Abbott), least brook lamprey	F	F	
<u>L. appendix</u> (DeKay), American brook lamprey	F	F	
<u>Petromyzon marinus</u> Linnaeus, sea lamprey	P	P	
Acipenseridae - paddlefish, sturgeons			
<u>Polyodontidae</u> - paddlefish			
<u>Polyodon spatula</u> (Walbaum), paddlefish	F	F	
<u>Acipenseridae</u> - sturgeon			
<u>Acipenser fulvescens</u> Rafinesque, lake sturgeon	V	V	
<u>Scaphirhynchus platyrhynchus</u> (Rafinesque), shovelnose sturgeon	I	I	
Lepisosteiformes - gars			
<u>Lepisosteidae</u> - gars			
<u>Atractosteus spatula</u> (Lacepede), alligator gar	P	P	
<u>Lepisosteus oculatus</u> Winchell, spotted gar	P	P	C
<u>L. osseus</u> Linnaeus, longnose gar	P	P	C
<u>L. platostomus</u> Rafinesque, shortnose gar	P	P	C
Amiiformes - bowfin			
<u>Amiidae</u> - bowfin			
<u>Amia calva</u> Linnaeus, bowfin	P	P	C
Anguilliformes - eels			
<u>Anguillidae</u> - eel			
<u>Anguilla rostrata</u> (Lesueur), American eel	C	C	C
Clupeiformes - herring, shad			
<u>Clupeidae</u> - herring			
<u>Alosa chrysochloris</u> (Rafinesque), skipjack herring	P	P	C
<u>A. pseudoharengus</u> (Wilson), alewife	F	-	
<u>Dorosoma cepedianum</u> (Lesueur), gizzard shad	O	O	O
<u>D. petenense</u> (Günther), threadfin shad	O	O	
Osteoglossiformes - mooneye			
<u>Hiodontidae</u> - mooneye			
<u>Hiodon alosoides</u> (Rafinesque), goldeye	I	I	C
<u>H. tergisus</u> Lesueur, mooneye	I	I	
Salmoniformes - trout, salmon, whitefish			
<u>Salmonidae</u> - salmon and whitefish			
<u>Coregonus artedii</u> Lesueur, cisco or lake herring	F	-	
<u>C. clupeaformis</u> (Mitchell), lake whitefish	V	V	
<u>C. hoyi</u> (Gill), bloater	-		
<u>C. zenithicus</u> (Jordan and Evermann), shortjaw cisco	-		
<u>Oncorhynchus mykiss</u> Walbaum, rainbow trout	P	-	
<u>O. kisutch</u> (Walbaum), coho salmon	P	-	
<u>O. tshawytscha</u> (Walbaum), chinook salmon	P	-	
<u>Salvelinus fontinalis</u> (Mitchell), brook trout	P	-	
<u>S. namaycush</u> (Walbaum), lake trout	P	P	
<u>Salmo salar</u> (Walbaum), Atlantic salmon	P		
<u>S. trutta</u> Linnaeus, brown trout	P	-	
<u>Osmorhynchidae</u> - smelt			
<u>Osmorus mordax</u> (Mitchell), rainbow smelt	V	-	

	IN	OH	IL
<u>Umbridae</u> - mudminnows			
<u>Umbra limi</u> (Kirtland), central mudminnow	O	I	O
<u>Esocidae</u> - pikes			
<u>Esox americanus</u> Gmelin, grass pickerel	P	P	C
<u>E. lucius</u> Linnaeus, northern pike	P	P	C
<u>E. masquinongy</u> Mitchill, muskellunge	P	P	
<u>Cypriniformes</u> - carps and minnows			
<u>Cyprinidae</u> - carps and minnows			
<u>Camptostoma anaculum</u> (Rafinesque), stoneroller	H	H	
<u>C. oligolepis</u> Hubbs and Greene, largescale stoneroller	H		
<u>Carassius auratus</u> (Linnaeus), goldfish	O	O	O
<u>Clinostomus elongatus</u> (Kirtland), redside dace	I	I	
<u>Couesius plumbeus</u> (Agassiz), lake chub	I		
<u>Ctenopharyngodon idella</u> Valenciennes, grass carp	O		
<u>Cyprinella lutrensis</u> (Baird and Girard), red shiner	I	I	I
<u>C. spiloptera</u> Cope, spotfin shiner	I	I	I
<u>C. whipplei</u> (Girard), steelcolor shiner	I	I	I
<u>Cyprinus carpio</u> Linnaeus, carp	O	O	O
<u>Ericymba buccata</u> Cope, silverjaw minnow	I	I	I
<u>Erimystax dissimilis</u> Kirtland, streamline chub	I	I	
<u>E. x-punctata</u> Hubbs and Crowe, gravel chub	I	I	
<u>Extrarius aestavalis</u> Girard, speckled chub	I	I	
<u>Hybomachus hayi</u> Jordan, cypress minnow	O		
<u>H. nuchalis</u> Agassiz, central silvery minnow	O		
<u>H. regius</u> Girard, eastern silvery minnow	O		
<u>Hybopsis amblope</u> (Rafinesque), bigeye chub	I	I	
<u>H. annis</u> Hubbs and Greene, pallid shiner	I		
<u>Hypophthalmichthys molitrix</u> Valenciennes, silver carp	O		
<u>Luxilus chrysocephalus</u> (Rafinesque), striped shiner	I	I	I
<u>L. cornutus</u> (Mitchell), common shiner	I	I	I
<u>Lythrurus ardens</u> (Cope), rosefin shiner	I	I	
<u>L. fumeus</u> Evermann, ribbon shiner	I		
<u>L. umbratilis</u> (Girard), redbelly shiner	I	I	I
<u>Macrhybopsis storeriana</u> (Kirtland), silver chub	I	I	
<u>Nocomis biguttatus</u> (Kirtland), hornyhead chub	I	I	I
<u>N. micropogon</u> (Cope), river chub	I	I	
<u>Notemigonus crysoleucas</u> (Mitchell), golden shiner	I	I	O
<u>Notropis anogenus</u> Forbes, pugnose shiner	I	I	
<u>N. atherinoides</u> Rafinesque, emerald shiner	I	I	I
<u>N. aricomus</u> (Cope), popeye shiner	I	I	
<u>N. blennius</u> (Girard), river shiner	I	I	I
<u>N. boops</u> Gilbert, bigeye shiner	I	I	
<u>N. buechanani</u> Meek, ghost shiner	I	I	
<u>N. chalybaeus</u> (Cope), ironcolor shiner	I		I
<u>N. dorsalis</u> (Agassiz), bigmouth shiner	I	I	O
<u>N. heterodon</u> (Cope), blacknose shiner	I	I	I
<u>N. heterolepis</u> Eigenmann and Eigenmann, blackchin shiner	I	I	O
<u>N. hudsonius</u> (Clinton), spottail shiner	I	I	I
<u>N. ludibundus</u> Cope, sand shiner	I	I	I
<u>N. photogenis</u> (Cope), silver shiner	I	I	
<u>N. rubellus</u> (Agassiz), rosyface shiner	I	I	I
<u>N. texanus</u> (Girard), weed shiner	I		
<u>N. volucellus</u> (Cope), mimic shiner	I	I	O
<u>Opsopoeodus emiliae</u> Hay, pugnose minnow	I	I	I
<u>Phenacobius mirabilis</u> (Girard), suckermouth minnow	I	I	I
<u>Phoxinus erythrogaster</u> (Rafinesque), southern redbelly dace	H	H	
<u>Pimephales notatus</u> (Rafinesque), bluntnose minnow	O	O	O
<u>P. promelas</u> Rafinesque, fathead minnow	O	O	O
<u>P. vigilax</u> (Baird and Girard), bullhead minnow	O	O	O
<u>Rhinichthys atratulus</u> Agassiz, blacknose dace	G	G	O
<u>R. cataractae</u> (Valenciennes), longnose dace	I	I	
<u>Semotilus atromaculatus</u> (Mitchill), creek chub	G	G	I

	IN	OH	IL
Catostomidae - suckers and buffalo			
<u>Cycleptus elongatus</u> (Lesueur), blue sucker	I	I	O
<u>Carpionodes carpio</u> (Rafinesque), river carpsucker	O	O	O
<u>C. cyprinus</u> (Lesueur), quillback	O	O	O
<u>C. velifer</u> (Rafinesque), highfin carpsucker	O	O	O
<u>Catostomus catostomus</u> (Forster), longnose sucker	I	I	
<u>C. commersoni</u> Lacepede, white sucker	O	O	
<u>Erimyzon oblongus</u> (Mitchill), creek chubsucker	I	I	
<u>E. sucetta</u> (Lacepede), lake chubsucker	I	I	
<u>Hypentilium nigricans</u> (Lesueur), northern hogsucker	I	I	
<u>Ictiobus bubalus</u> (Rafinesque), smallmouth buffalo	I	I	
<u>I. cyprinellus</u> (Valenciennes), bigmouth buffalo	I	I	
<u>I. niger</u> (Rafinesque), black buffalo	I	I	
<u>Minytrema melanops</u> (Rafinesque), spotted sucker	I	I	
<u>Moxostoma anisurum</u> (Rafinesque), silver redhorse	I	I	
<u>M. carinatum</u> (Cope), river redhorse	I	I	
<u>M. duquesnei</u> (Lesueur), black redhorse	I	I	
<u>M. erythrum</u> (Rafinesque), golden redhorse	I	I	
<u>M. macrolepidotum</u> (Lesueur), shorthead redhorse	I	I	
<u>M. valenciennesi</u> Jordan, greater redhorse	I	I	
Siluriformes - bullhead and catfish			
Ictaluridae - bullhead and catfish			
<u>Ameiurus catus</u> (Linnaeus), white catfish	-	I	
<u>A. melas</u> (Rafinesque), black bullhead	I	I	
<u>A. natalis</u> (Lesueur), yellow bullhead	I	I	
<u>A. nebulosus</u> (Lesueur), brown bullhead	I	I	
<u>Ictalurus furcatus</u> (Lesueur), blue catfish	C	C	
<u>I. punctatus</u> (Rafinesque), channel catfish	C	-	C
<u>Noturus eleutherus</u> Jordan, mountain madtom	I	I	
<u>N. exilis</u> Nelson, slender madtom	I		
<u>N. flavus</u> Rafinesque, stonecat	I	I	
<u>N. gyrinus</u> (Mitchill), tadpole madtom	I	I	
<u>N. miurus</u> Jordan, brindled madtom	I	I	
<u>N. nocturnus</u> Jordan and Gilbert, freckled madtom	I		
<u>N. stigmatosus</u> Taylor, northern madtom	I	I	
<u>Pylodoctis olivaris</u> (Rafinesque), flathead catfish	P	P	C
Percopsiformes - cavefish, pirate perch, trout-perch			
Amblyopsidae - cavefish			
<u>Amblyopsis spelaea</u> DeKay, northern cavefish	G		
<u>Typhalichthys subterraneus</u> Girard, southern cavefish	G		
Apherododeridae - pirate perch			
<u>Apherododerus sayanus</u> (Gilliams), pirate perch	I	I	
Percopsidae - trout-perch			
<u>Percopsis omiscomaycus</u> (Walbaum), trout-perch	I	I	
Gadiformes - cod			
Gadidae - cod			
<u>Lota lota</u> (Linnaeus), burbot	-	-	
Atheriniformes - topminnows, silversides			
Fundulidae - topminnows			
<u>Fundulus catenatus</u> (Storer), northern studfish	I		
<u>F. diaphanus</u> (Lesueur), banded killifish	I	I	
<u>F. dispar</u> (Agassiz), northern starhead topminnow	I		
<u>F. notatus</u> (Rafinesque), blackstripe topminnow	I	I	
Poeciliidae - live-bearing fishes			
<u>Gambusia affinis</u> (Baird and Girard), mosquitofish	I	I	
Atherinidae - silversides			
<u>Labidesthes sicculus</u> (Cope), brook silverside	I	I	

	<u>IN</u>	<u>OH</u>	<u>IL</u>
Gasterosteiformes - sticklebacks			
<u>Gasterosteidae</u> - sticklebacks			
<u>Culaea inconstans</u> (Kirtland), brook stickleback	I	I	
<u>Pungitius pungitius</u> (Linnaeus), ninespine stickleback	I		
Perciformes - basses, sunfish, perch, darters			
<u>Moronidae</u> - temperate basses			
<u>Morone chrysops</u> (Rafinesque), white bass	P	P	C
<u>M. mississippiensis</u> Jordan and Eigermann, yellow bass	P		C
<u>M. saxatilis</u> (Walbaum), striped bass	P	P	
<u>Centrarchidae</u> - black bass and sunfish			
<u>Ambloplites rupestris</u> (Rafinesque), rock bass	C	C	C
<u>Centrarchus macropterus</u> (Lacepede), flier	I		
<u>Lepomis cyanellus</u> Rafinesque, green sunfish	I	I	
<u>L. gibbosus</u> (Linnaeus), pumpkinseed	I	I	
<u>L. gulosus</u> (Cuvier), warmouth	C	C	
<u>L. humilis</u> (Girard), orangespotted sunfish	I	I	
<u>L. macrochirus</u> Rafinesque, bluegill	I	I	
<u>L. megalotis</u> (Rafinesque), longear sunfish	I	I	
<u>L. microlophus</u> (Gunther), redear sunfish	I	I	
<u>L. punctatus</u> (Valenciennes), spotted sunfish	I		
<u>Micropterus dolomieu</u> Lacepede, smallmouth bass	C	C	C
<u>M. punctulatus</u> Rafinesque, spotted bass	C	C	
<u>M. salmoides</u> (Lacepede), largemouth bass	C	C	C
<u>Pomoxis annularis</u> Rafinesque, white crappie	-	-	C
<u>P. nigromaculatus</u> (Lesueur), black crappie	-	-	C
<u>Elassomatidae</u> - pygmy sunfish			
<u>Elassoma zonatum</u> Jordan, banded pygmy sunfish	I		
<u>Percidae</u> - perch and darters			
<u>Ammocrypta clara</u> Jordan and Meek, western sand darter	I		
<u>A. pellucida</u> (Agassiz), eastern sand darter	I	I	
<u>Etheostoma asprigene</u> (Forbes), mud darter	I		
<u>E. blennioides</u> (Rafinesque), greenside darter	I	I	
<u>E. caeruleum</u> Storer, rainbow darter	I	I	
<u>E. camurum</u> (Cope), bluebreast darter	I	I	
<u>E. chlorosoma</u> (Hay), bluntnose darter	I		
<u>E. exile</u> (Girard), Iowa darter	I	I	
<u>E. flabellare</u> Rafinesque, fantail darter	I	I	
<u>E. gracile</u> (Girard), slough darter	I		
<u>E. histrio</u> (Jordan and Gilbert), harlequin darter	I		
<u>E. kennicotti</u> (Putnam), stripetail darter	I		
<u>E. maculatum</u> Kirtland, spotted darter	I	I	
<u>E. microperca</u> Jordan and Gilbert, least darter	I	I	
<u>E. nigrum</u> Rafinesque, johnny darter	I	I	
<u>E. spectabile</u> (Agassiz), orangethroat darter	I	I	
<u>E. squamiceps</u> Jordan, spottail darter	I		
<u>E. tippecanoe</u> Jordan and Evermann, tippecanoe darter	I	I	
<u>E. variatum</u> Kirtland, variegate darter	I	I	
<u>E. zonale</u> (Cope), banded darter	I	I	
<u>Perca flavescens</u> (Mitchill), yellow perch	-	-	C
<u>Percina caprodes</u> (Rafinesque), logperch	I	I	
<u>P. copelandi</u> (Jordan), channel darter	I	I	
<u>P. evides</u> (Jordan and Copeland), gilt darter	I	I	
<u>P. maculata</u> (Girard), blackside darter	I	I	
<u>P. phoxocephala</u> (Nelson), slenderhead darter	I	I	
<u>P. sciera</u> (Swain), dusky darter	I	I	
<u>P. shumardi</u> (Girard), river darter	I	I	
<u>Stizostedion canadense</u> (Smith), sauger	P	P	C
<u>S. vitreum</u> (Mitchill), walleye	P	P	C
<u>Sciaenidae</u> - drum			
<u>Aplodinotus grunniens</u> Rafinesque, freshwater drum	-	-	
<u>Cottidae</u> - sculpins			
<u>Cottus bairdi</u> Girard, mottled sculpin	I	I	

	<u>IN</u>	<u>OH</u>	<u>IL</u>
<u>C. carolinae</u> (Gill), banded sculpin	I		
<u>C. cognatus</u> Richardson, slimy sculpin	-	-	
<u>Myoxocephalus thompsoni</u> (Girard), deepwater sculpin	-	-	
<u>Hypothetical:</u>			
<u>Fundulus olivaceus</u> (Storer), blackspotted topminnow	I		
<u>Hybognathus hankinsoni</u> Hubbs, brassy minnow	O		
<u>Percina vigil</u> Hay, yellow saddleback darter	I		
<u>Scardinus erythrophthalmus</u> (Linnaeus), rudd	O		
<u>Extirpated:</u>			
<u>Alosa alabamae</u> Jordan and Evermann, Alabama shad	-		
<u>Coregonus nigripinnis</u> (Gill), blackfin cisco	-		
<u>C. reighardi</u> (Koelz), shortnose cisco	-		
<u>Crystallaria asprella</u> Jordan, crystal darter	I	S	
<u>Esox masquinongy</u> Mitchill, Great Lakes Muskellunge	P	P	
<u>Lagochila lacera</u> Jordan and Brayton, harelip sucker	-		
<u>Lepomis symmetricus</u> Forbes, bantam sunfish	I		
<u>Percina uranidea</u> (Jordan and Gilbert), stargazing darter	I		

Feeding Guild Categories: (See text for explanation)

- P - Piscivore
- F - Filter Feeder
- V - Invertivore
- I - Specialist Insectivore
- O - Omnivore
- G - Generalist
- H - Herbivore
- C - Carnivore
- - Functional Feeding Guild behaviorally plastic

Appendix C. Adjacent State comparisons of Reproductive guilds¹ for computing the Index of Biotic Integrity for Indiana taxa.

<u>Petromyzontiformes-lampreys</u>			
<u>Petromyzontidae</u> - lamprey	<u>IN</u>	<u>OH</u>	<u>IL</u> ²
<u>Ichthyomyzon bdellium</u> (Jordan), Ohio lamprey	N	N	
<u>I. castaneus</u> Girard, chestnut lamprey	N		
<u>I. fossor</u> Reighard and Cummins, northern brook lamprey	N	N	
<u>I. unicuspis</u> Hubbs and Trautman, silver lamprey	N	N	
<u>Lampetra aepyptera</u> (Abbott), least brook lamprey	N	N	
<u>L. appendix</u> (DeKay), American brook lamprey	N	N	
<u>Petromyzon marinus</u> Linnaeus, sea lamprey	N	N	
 <u>Acipenseridae</u> - paddlefish, sturgeons			
<u>Polyodontidae</u> - paddlefish			
<u>Polyodon spatula</u> (Walbaum), paddlefish	S	S	
<u>Acipenseridae</u> - sturgeon			
<u>Acipenser fulvescens</u> Rafinesque, lake sturgeon	S	S	
<u>Scaphirhynchus platyrhynchus</u> (Rafinesque), shovelnose sturgeon	S	S	
 <u>Lepisosteiformes</u> - gars			
<u>Lepisosteidae</u> - gars			
<u>Atractosteus spatula</u> (Lacepede), alligator gar	M	M	
<u>Lepisosteus oculatus</u> Winchell, spotted gar	M	M	
<u>L. osseus</u> Linnaeus, longnose gar	M	M	
<u>L. platostomus</u> Rafinesque, shortnose gar	M	M	
 <u>Amiiformes</u> - bowfin			
<u>Amiidae</u> - bowfin			
<u>Amia calva</u> Linnaeus, bowfin	C	C	
 <u>Anguilliformes</u> - eels			
<u>Anguillidae</u> - eel			
<u>Anguilla rostrata</u> (Lesueur), American eel	-	-	
 <u>Clupeiformes</u> - herring, shad			
<u>Clupeidae</u> - herring			
<u>Alosa chrysochloris</u> (Rafinesque), skipjack herring	M	M	
<u>A. pseudoharengus</u> (Wilson), alewife	M	M	
<u>Dorosoma cepedianum</u> (Lesueur), gizzard shad	M	M	
<u>D. petenense</u> (Gunther), threadfin shad	M	M	
 <u>Osteoglossiformes</u> - mooneye			
<u>Hiodontidae</u> - mooneye			
<u>Hiodon alosoides</u> (Rafinesque), goldeye	M	M	
<u>H. tergisus</u> Lesueur, mooneye	M	M	
 <u>Salmoniformes</u> - trout, salmon, whitefish			
<u>Salmonidae</u> - salmon and whitefish			
<u>Coregonus artedii</u> Lesueur, cisco or lake herring	M	M	
<u>C. clupeaformis</u> (Mitchill), lake whitefish	M	M	
<u>C. hoyi</u> (Gill), bloater	M		
<u>C. zenithicus</u> (Jordan and Evermann), shortjaw cisco	M		
<u>Oncorhynchus mykiss</u> Walbaum, rainbow trout	N	N	
<u>O. kisutch</u> (Walbaum), coho salmon	N	N	
<u>O. tshawytscha</u> (Walbaum), chinook salmon	N	N	
<u>Salvelinus fontinalis</u> (Mitchell), brook trout	N	N	
<u>S. namaycush</u> (Walbaum), lake trout	N	N	
<u>Salmo salar</u> (Walbaum), Atlantic salmon	N		
<u>S. trutta</u> Linnaeus, brown trout	N	N	
<u>Osmorhynchidae</u> - smelt			
<u>Osmorus mordax</u> (Mitchill), rainbow smelt	M	M	

	IN	OH	IL
<u>Umbridae</u> - mudminnows			
<u>Umbra limi</u> (Kirtland), central mudminnow	C	C	
<u>Esocidae</u> - pikes			
<u>Esox americanus</u> Gmelin, grass pickerel	M	M	
<u>E. lucius</u> Linnaeus, northern pike	M	M	
<u>E. masquinongy</u> Mitchill, muskellunge	M	M	
<u>Cypriniformes</u> - carps and minnows			
<u>Cyprinidae</u> - carps and minnows			
<u>Campostoma anomalum</u> (Rafinesque), stoneroller	N	N	
<u>C. oligolepis</u> Hubbs and Greene, largescale stoneroller	N		
<u>Carassius auratus</u> (Linnaeus), goldfish	M	M	
<u>Clinostomus elongatus</u> (Kirtland), redside dace	S	S	
<u>Couesius plumbeus</u> (Agassiz), lake chub	S		
<u>Ctenopharyngodon idella</u> Valenciennes, grass carp	M		
<u>Cyprinella lutrensis</u> (Baird and Girard), red shiner	N	N	
<u>C. spiloptera</u> Cope, spotfin shiner	M	M	
<u>C. whipplei</u> (Girard), steelcolor shiner	M	M	
<u>Cyprinus carpio</u> Linnaeus, carp	M	M	
<u>Ericymba buccata</u> Cope, silverjaw minnow	M	M	
<u>Erimystax dissimilis</u> Kirtland, streamline chub	S	S	
<u>E. x-punctata</u> Hubbs and Crowe, gravel chub	S	S	
<u>Extrarius aestavalis</u> Girard, speckled chub	M	M	
<u>Hybognathus hayi</u> Jordan, cypress minnow	M		
<u>H. nuchalis</u> Agassiz, central silvery minnow	S		
<u>H. regius</u> Girard, eastern silvery minnow	S		
<u>Hybopsis amblops</u> (Rafinesque), bigeye chub	S	S	
<u>H. amnis</u> Hubbs and Greene, pallid shiner	S		
<u>Hypophthalmichthys molitrix</u> Valenciennes, silver carp	M		
<u>Luxilus chrysocephalus</u> (Rafinesque), striped shiner	S	S	
<u>L. cornutus</u> (Mitchell), common shiner	S	S	
<u>Lythrurus ardens</u> (Cope), rosefin shiner	S	S	
<u>L. fumeus</u> Evermann, ribbon shiner	M		
<u>L. umbratilis</u> (Girard), redbelly shiner	N	N	
<u>Macrhybopsis storeriana</u> (Kirtland), silver chub	M	M	
<u>Nocomis biguttatus</u> (Kirtland), hornyhead chub	N	N	
<u>N. micropogon</u> (Cope), river chub	N	N	
<u>Notemigonus crysoleucas</u> (Mitchell), golden shiner	M	M	
<u>Notropis anogenus</u> Forbes, pugnose shiner	M	M	
<u>N. atherinoides</u> Rafinesque, emerald shiner	S	S	
<u>N. ariommus</u> (Cope), popeye shiner	S	S	
<u>N. blennius</u> (Girard), river shiner	S	S	
<u>N. boops</u> Gilbert, bigeye shiner	S	S	
<u>N. buchanani</u> Meek, ghost shiner	M	M	
<u>N. chalybaeus</u> (Cope), ironcolor shiner	M		
<u>N. dorsalis</u> (Agassiz), bigmouth shiner	M	M	
<u>N. heterodon</u> (Cope), blacknose shiner	M	M	
<u>N. heterolepis</u> Eigenmann and Eigenmann, blackchin shiner	M	M	
<u>N. hudsonius</u> (Clinton), spottail shiner	M	M	
<u>N. ludibundus</u> Cope, sand shiner	M	M	
<u>N. photogenis</u> (Cope), silver shiner	S	S	
<u>N. rubellus</u> (Agassiz), rosyface shiner	S	S	
<u>N. texanus</u> (Girard), weed shiner	M		
<u>N. volucellus</u> (Cope), mimic shiner	M	M	
<u>Opsopoeodus emiliae</u> Hay, pugnose minnow	M	M	
<u>Phenacobius mirabilis</u> (Girard), suckermouth minnow	S	S	
<u>Phoxinus erythrogaster</u> (Rafinesque), southern redbelly dace	S	S	
<u>Pimephales notatus</u> (Rafinesque), bluntnose minnow	C	C	
<u>P. promelas</u> Rafinesque, fathead minnow	C	C	
<u>P. vigilax</u> (Baird and Girard), bullhead minnow	C	C	
<u>Rhinichthys atratulus</u> Agassiz, blacknose dace	S	S	
<u>R. cataractae</u> (Valenciennes), longnose dace	S	S	
<u>Semotilus atromaculatus</u> (Mitchill), creek chub	N	N	

	<u>IN</u>	<u>OH</u>	<u>IL</u>
<u>Catostomidae</u> - suckers and buffalo			
<u>Cypleptus elongatus</u> (Lesueur), blue sucker	S	S	
<u>Carpiodes carpio</u> (Rafinesque), river carpsucker	M	M	
<u>C. cyprinus</u> (Lesueur), quillback	M	M	
<u>C. velifer</u> (Rafinesque), highfin carpsucker	M	M	
<u>Catostomus catostomus</u> (Forster), longnose sucker	S	S	
<u>C. commersoni</u> Lacepede, white sucker	S	S	
<u>Erimyzon oblongus</u> (Mitchill), creek chubsucker	M	M	
<u>E. sucetta</u> (Lacepede), lake chubsucker	M	M	
<u>Hypentilium nigricans</u> (Lesueur), northern hogsucker	S	S	
<u>Ictiobus bubalus</u> (Rafinesque), smallmouth buffalo	M	M	
<u>I. cyprinellus</u> (Valenciennes), bigmouth buffalo	M	M	
<u>I. niger</u> (Rafinesque), black buffalo	M	M	
<u>Minytrema melanops</u> (Rafinesque), spotted sucker	S	S	
<u>Moxostoma anisurum</u> (Rafinesque), silver redhorse	S	S	
<u>M. carinatum</u> (Cope), river redhorse	S	S	
<u>M. duquesnei</u> (Lesueur), black redhorse	S	S	
<u>M. erythrum</u> (Rafinesque), golden redhorse	S	S	
<u>M. macrolepidotum</u> (Lesueur), shorthead redhorse	S	S	
<u>M. valenciennesi</u> Jordan, greater redhorse	S	S	
<u>Siluriformes</u> - bullhead and catfish			
<u>Ictaluridae</u> - bullhead and catfish			
<u>Ameiurus catus</u> (Linnaeus), white catfish	C	C	
<u>A. melas</u> (Rafinesque), black bullhead	C	C	
<u>A. natalis</u> (Lesueur), yellow bullhead	C	C	
<u>A. nebulosus</u> (Lesueur), brown bullhead	C	C	
<u>Ictalurus furcatus</u> (Lesueur), blue catfish	C	C	
<u>I. punctatus</u> (Rafinesque), channel catfish	C	C	
<u>Noturus eleutherus</u> Jordan, mountain madtom	C	C	
<u>N. exilis</u> Nelson, slender madtom	C		
<u>N. flavus</u> Rafinesque, stonecat	C	C	
<u>N. gyrinus</u> (Mitchill), tadpole madtom	C	C	
<u>N. miurus</u> Jordan, brindled madtom	C	C	
<u>N. nocturnus</u> Jordan and Gilbert, freckled madtom	C		
<u>N. stigmosus</u> Taylor, northern madtom	C	C	
<u>Pylodoctis olivaris</u> (Rafinesque), flathead catfish	C	C	
<u>Percopsiformes</u> - cavefish, pirate perch, trout-perch			
<u>Amblyopsidae</u> - cavefish			
<u>Amblyopsis spelaea</u> DeKay, northern cavefish	C		
<u>Typhalichthys subterraneus</u> Girard, southern cavefish	C		
<u>Apherododeridae</u> - pirate perch			
<u>Apherododerus sayanus</u> (Gilliams), pirate perch	M	M	
<u>Percopsidae</u> - trout-perch			
<u>Percopsis omiscomaycus</u> (Walbaum), trout-perch	M	M	
<u>Gadiformes</u> - cod			
<u>Gadidae</u> - cod			
<u>Lota lota</u> (Linnaeus), burbot	S	S	
<u>Atheriniformes</u> - topminnows, silversides			
<u>Fundulidae</u> - topminnows			
<u>Fundulus catenatus</u> (Storer), northern studfish	M		
<u>F. diaphanus</u> (Lesueur), banded killifish	M	M	
<u>F. dispar</u> (Agassiz), northern starhead topminnow	M		
<u>F. notatus</u> (Rafinesque), blackstripe topminnow	M	M	
<u>Poeciliidae</u> - live-bearing fishes			
<u>Gambusia affinis</u> (Baird and Girard), mosquitofish	N	N	
<u>Atherinidae</u> - silversides			
<u>Labidesthes sicculus</u> (Cope), brook silverside	M	M	

	<u>IN</u>	<u>OH</u>	<u>IL</u>
Gasterosteiformes - sticklebacks			
Gasterosteidae - sticklebacks			
<u>Culaea inconstans</u> (Kirtland), brook stickleback	C	C	
<u>Pungitius pungitius</u> (Linnaeus), ninespine stickleback	C		
Perciformes - basses, sunfish, perch, darters			
Moronidae - temperate basses			
<u>Morone chrysops</u> (Rafinesque), white bass	M	M	
<u>M. mississippiensis</u> Jordan and Eigenmann, yellow bass	M		
<u>M. saxatilis</u> (Walbaum), striped bass	M	M	
Centrarchidae - black bass and sunfish			
<u>Ambloplites rupestris</u> (Rafinesque), rock bass	C	C	
<u>Centrarchus macrochirus</u> (Lacepede), flier	C		
<u>Lepomis cyanellus</u> Rafinesque, green sunfish	C	C	
<u>L. gibbosus</u> (Linnaeus), pumpkinseed	C	C	
<u>L. gulosus</u> (Cuvier), warmouth	C	C	
<u>L. humilis</u> (Girard), orangespotted sunfish	C	C	
<u>L. macrochirus</u> Rafinesque, bluegill	C	C	
<u>L. megalotis</u> (Rafinesque), longear sunfish	C	C	
<u>L. microlophus</u> (Gunther), redear sunfish	C	C	
<u>L. punctatus</u> (Valenciennes), spotted sunfish	C		
<u>Micropterus dolomieu</u> Lacepede, smallmouth bass	C	C	
<u>M. punctulatus</u> Rafinesque, spotted bass	C	C	
<u>M. salmoides</u> (Lacepede), largemouth bass	C	C	
<u>Pomoxis annularis</u> Rafinesque, white crappie	C	C	
<u>P. nigromaculatus</u> (Lesueur), black crappie	C	C	
Elassomatidae - pygmy sunfish			
<u>Elassoma zonatum</u> Jordan, banded pygmy sunfish	C		
Percidae - perch and darters			
<u>Ammocrypta clara</u> Jordan and Meek, western sand darter	S		
<u>A. pellucida</u> (Agassiz), eastern sand darter	S	S	
<u>Etheostoma asprigene</u> (Forbes), mud darter	M		
<u>E. blennioides</u> (Rafinesque), greenside darter	M	S	
<u>E. caeruleum</u> Storer, rainbow darter	S	S	
<u>E. camurum</u> (Cope), bluebreast darter	S	S	
<u>E. chlorosoma</u> (Hay), bluntnose darter	M		
<u>E. exile</u> (Girard), Iowa darter	M	M	
<u>E. flabellare</u> Rafinesque, fantail darter	C	C	
<u>E. gracile</u> (Girard), slough darter	N		
<u>E. histrio</u> (Jordan and Gilbert), harlequin darter	M		
<u>E. kennicotti</u> (Putnam), striptail darter	C		
<u>E. maculatum</u> Kirtland, spotted darter	S	S	
<u>E. microperca</u> Jordan and Gilbert, least darter	N	N	
<u>E. nigrum</u> Rafinesque, johnny darter	C	C	
<u>E. spectabile</u> (Agassiz), orangethroat darter	S	S	
<u>E. squamiceps</u> Jordan, spottail darter	C		
<u>E. tippecanoe</u> Jordan and Evermann, tippecanoe darter	S	S	
<u>E. variatum</u> Kirtland, variegated darter	S	S	
<u>E. zonale</u> (Cope), banded darter	M	S	
<u>Perca flavescens</u> (Mitchill), yellow perch	M	M	
<u>Percina caprodes</u> (Rafinesque), logperch	S	S	
<u>P. copelandi</u> (Jordan), channel darter	S	S	
<u>P. evides</u> (Jordan and Copeland), gilt darter	S	S	
<u>P. maculata</u> (Girard), blackside darter	S	S	
<u>P. phoxocephala</u> (Nelson), slenderhead darter	S	S	
<u>P. sciera</u> (Swain), dusky darter	S	S	
<u>P. shumardi</u> (Girard), river darter	S	S	
<u>Stizostedion canadense</u> (Smith), sauger	S	S	
<u>S. vitreum</u> (Mitchill), walleye	S	S	
Sciaenidae - drum			
<u>Aplodinotus grunniens</u> Rafinesque, freshwater drum	M	M	
Cottidae - sculpins			
<u>Cottus bairdi</u> Girard, mottled sculpin	C	C	

	<u>IN</u>	<u>OH</u>	<u>IL</u>
<u>C. carolinæ</u> (Gill), banded sculpin	C		
<u>C. cognatus</u> Richardson, slimy sculpin	C	-	
<u>Myoxocephalus thompsoni</u> (Girard), deepwater sculpin	C	-	
<u>Hypothetical:</u>			
<u>Fundulus olivaceus</u> (Storer), blackspotted topminnow	M		
<u>Hybognathus hankinsoni</u> Hubbs, brassy minnow	-		
<u>Percina vigil</u> Hay, yellow saddleback darter	S		
<u>Scardinus erythrophthalmus</u> (Linnaeus), rudd	M		
<u>Extirpated:</u>			
<u>Alosa alabamæ</u> Jordan and Evermann, Alabama shad	N		
<u>Coregonus nigripinnis</u> (Gill), blackfin cisco	N		
<u>C. reighardi</u> (Koelz), shortnose cisco	N		
<u>Crystallaria asprella</u> Jordan, crystal darter	S	S	
<u>Esox masquinongy</u> Mitchill, Great Lakes Muskellunge	M	M	
<u>Lagochila lacera</u> Jordan and Brayton, harelip sucker	-		
<u>Lepomis symmetricus</u> Forbes, bantam sunfish	C		
<u>Percina uranidea</u> (Jordan and Gilbert), stargazing darter	S		

¹ Reproductive Guild Categories: (See text for explanation)

- N - Complex, no parental care
- C - Complex with parental care
- M - Simple, miscellaneous
- S - Simple Lithophil

² The State of Illinois does not use a reproductive guild classification metric.

Appendix D. Site specific Index of Biotic Integrity scores for each of the stations sampled in the Central Corn Belt Plain Ecoregion.

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-001 BASIN Kankakee River

SITE: IN: Lake Co: West Creek, 2 mi NW North Hayden. Lat. 87 30 23. Long. 41 18'43". Drainage Area: 39.0.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	18	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	50.3	1
7. Proportion of Omnivores	3.7	5
8. Proportion of Insectivores	92.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.2	3
10. Catch Per Unit Effort	187	3
11. Proportion Simple Lithophils	0.5	1
12. Proportion of Individuals with DELT	0	5
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-002 BASIN Kankakee River

SITE: IN: Lake Co: West Creek, 1.9 mi SW Belshaw. Lat. 87 30'13". Long. 41 14' 20". Drainage Area: 54.7 sq. mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	28	5
2. Number of Darter Species	4	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	8	-
5. Number of Sensitive Species	8	5
6. Percent Abundance of Tolerant Species	50.7	1
7. Proportion of Omnivores	10.9	5
8. Proportion of Insectivores	84.6	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0.9	1
10. Catch Per Unit Effort	422	5
11. Proportion Simple Lithophils	8.8	1
12. Proportion of Individuals with DELT	0	5
TOTAL		46

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-003 BASIN Kankakee River

SITE: IN: Lake Co: Singleton ditch, 4.75 mi S Lowell, Lat. 87 24'36". Long. 41 13'22". Drainage Area: 87.7 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	15	3
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	1	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	43.8	3
7. Proportion of Omnivores	25.0	3
8. Proportion of Insectivores	62.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	11.3	5
10. Catch Per Unit Effort	80	1
11. Proportion Simple Lithophils	1.3	1
12. Proportion of Individuals with DELT	2.5	3
TOTAL		31

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-004 BASIN Kankakee River

SITE: IN: Lake Co: Cedar Creek, 3 mi S Lowell. Lat. 87 25'13". Long. 41 14'54". Drainage Area: 31.3 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	17	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	37.9	3
7. Proportion of Omnivores	15.2	5
8. Proportion of Insectivores	56.1	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.03	3
10. Catch Per Unit Effort	66	1
11. Proportion Simple Lithophils	25.8	3
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-005 BASIN Kankakee River

SITE: IN: Lake Co: West Cedar Creek ditch, just N Lowell. Lat. 87 25'13".
Long. 41 17'47". Drainage Area: 26.9 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	72.5	1
7. Proportion of Omnivores	11.8	5
8. Proportion of Insectivores	78.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.0	3
10. Catch Per Unit Effort	51	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		30

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-006 BASIN Kankakee River

SITE: IN: Lake Co: Spring Run of Greisel ditch: 3 mi E Lowell. Lat. 87 21'58".
Long. 41 17'04". Drainage Area: 12.7 sq. mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	9.7	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	9	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	-	3
7. Proportion of Omnivores	4.3	5
8. Proportion of Insectivores	59.1	5
9. Proportion of Pioneer Species	53.8	1
Proportion of Carnivores	3.2	3
10. Catch Per Unit Effort	93	3
11. Proportion Simple Lithophils	19.4	3
12. Proportion of Individuals with DELT	0	5
TOTAL		45

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-007 BASIN Kankakee River

SITE: IN: Lake Co: Singleton ditch, 6 mi E Lowell. Lat. 87 17'45". Long. 41 15'44". Drainage Area: 123 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	3
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	68.8	1
7. Proportion of Omnivores	31.3	3
8. Proportion of Insectivores	59.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.1	3
10. Catch Per Unit Effort	32	1
11. Proportion Simple Lithophils	3.1	1
12. Proportion of Individuals with DELT	0	5
	TOTAL	26

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-008 BASIN Kankakee River

SITE: IN: Lake Co: M.J. Brown ditch, 2.75 mi E US 65 intersection. Lat. 87 14' 44". Long. 41 17'22". Drainage Area: 34.2 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	27	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	6	5
6. Percent Abundance of Tolerant Species	34.5	3
7. Proportion of Omnivores	16.3	5
8. Proportion of Insectivores	72.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1.97	3
10. Catch Per Unit Effort	203	3
11. Proportion Simple Lithophils	6.4	1
12. Proportion of Individuals with DELT	0	5
TOTAL		48

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-009 BASIN Kankakee RiverSITE: IN: Lake Co: East Branch Stony Run ditch, 2 mi S LeRoy. Lat. 87 15'25".
Long. 41 20'00". Drainage Area: 15.9 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	15.9	3
Number of Sunfish Species	-	-
4. Number of Minnow Species	7	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	50.0	1
7. Proportion of Omnivores	38.6	3
8. Proportion of Insectivores	36.4	3
9. Proportion of Pioneer Species	63.6	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	44	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	2.3	3
TOTAL		28

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-010 BASIN Kankakee River

SITE: IN: Lake Co: Tully ditch, 0.75 mi N Shelby. Lat. 87 20'34". Long. 41 12' 9". Drainage Area: 10.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	1	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	37.0	3
7. Proportion of Omnivores	3.7	5
8. Proportion of Insectivores	81.5	5
9. Proportion of Pioneer Species	44.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	54	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		36

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-014 BASIN Kankakee River

SITE: IN: Porter Co: Cobb ditch, 2 mi SSE Hebron. Lat. 87 10'50". long. 41 17' 18". Drainage Area: 12.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	7.1	1
Number of Sunfish Species	1	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	89.3	1
7. Proportion of Omnivores	39.3	1
8. Proportion of Insectivores	25.0	1
9. Proportion of Pioneer Species	64.3	1
Proportion of Carnivores	3.6	-
10. Catch Per Unit Effort	28	1
11. Proportion Simple Lithophils	7.1	1
12. Proportion of Individuals with DELT	0	5
	TOTAL	22

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-016 BASIN Kankakee River

SITE: IN: Porter Co: Cornell ditch, 4.75 mi E Hebron. Lat. 87 06'28". Long. 41 19'06". Drainage Area: 19.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	8.6	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	8	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	67.9	1
7. Proportion of Omnivores	33.4	1
8. Proportion of Insectivores	20.5	1
9. Proportion of Pioneer Species	58.9	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	443	5
11. Proportion Simple Lithophils	40.2	5
12. Proportion of Individuals with DELT	0	5
TOTAL		34

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-017 BASIN Kankakee River

SITE: IN: Porter Co: Wolf Creek, 4 mi NE Kouts. Lat. 87 06'35". Long. 41 22' 03". Drainage Area: 14.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	5
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	12.8	3
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	74.8	1
7. Proportion of Omnivores	31.7	3
8. Proportion of Insectivores	48.6	5
9. Proportion of Pioneer Species	49.1	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	218	3
11. Proportion Simple Lithophils	36.2	5
12. Proportion of Individuals with DELT	0.5	3
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-018 BASIN Kankakee River

SITE: IN: Porter Co: Sievers Creek, 5.75 mi N Kouts. Lat. 87 05'06". Long. 41 23'46". Drainage Area: 8.07 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	61.7	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	4	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	72.9	1
7. Proportion of Omnivores	6.1	3
8. Proportion of Insectivores	27.1	3
9. Proportion of Pioneer Species	36.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	214	3
11. Proportion Simple Lithophils	48.1	5
12. Proportion of Individuals with DELT	0	5
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-019 BASIN Kankakee River

SITE: IN: Porter Co: Cobb ditch, 2 mi NNW Kouts. Lat. 87 04'03". long 41 20' 50". Drainage Area: 11.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	16	5
2. Number of Darter Species	2	4
3. Proportion of Headwater Species	43.9	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	10	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	75.6	1
7. Proportion of Omnivores	13.8	5
8. Proportion of Insectivores	30.5	3
9. Proportion of Pioneer Species	43.9	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	246	4
11. Proportion Simple Lithophils	43.5	5
12. Proportion of Individuals with DELT	0	5
TOTAL		48

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-020 BASIN Kankakee River

SITE: IN: Porter Co: Ahlgrim ditch, 3.2 mi N Kouts. Lat. 87 00'55". long. 41 23'12". Drainage Area: 9.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	2
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	16.7	3
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	83.3	1
7. Proportion of Omnivores	33.3	1
8. Proportion of Insectivores	33.3	1
9. Proportion of Pioneer Species	50.0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	6	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		17

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-021 BASIN Kankakee River

SITE: IN: Porter Co: Crooked Creek, 2 mi NE Kouts. Lat. 86 59'24". Long. 41 20'50". Drainage Area: 63.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	19	5
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	3
6. Percent Abundance of Tolerant Species	39.3	3
7. Proportion of Omnivores	17.9	3
8. Proportion of Insectivores	53.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1.2	1
10. Catch Per Unit Effort	168	3
11. Proportion Simple Lithophils	34.5	4
12. Proportion of Individuals with DELT	0	5
TOTAL		39

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-022 BASIN Kankakee River

SITE: IN: Porter Co: Crooked Creek, 5 mi ESE Valparaiso. Lat. 87 57'49". Long. 41 24'19". Drainage Area: 44.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	17	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	67.1	1
7. Proportion of Omnivores	47.0	1
8. Proportion of Insectivores	15.7	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.6	3
10. Catch Per Unit Effort	249	3
11. Proportion Simple Lithophils	36.9	5
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-023 BASIN Kankakee River

SITE: IN: Porter Co: unnamed creek of West Branch Crooked Creek, 3.5 mi E
Valparaiso. Lat. 86 58'44". Long. 41 28'47". Drainage Area. 2.62
square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	11	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	4.6	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	67.0	1
7. Proportion of Omnivores	1.0	5
8. Proportion of Insectivores	32.0	3
9. Proportion of Pioneer Species	47.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	194	5
11. Proportion Simple Lithophils	38.1	5
12. Proportion of Individuals with DELT	0	5
	TOTAL	44

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-024 BASIN Kankakee River

SITE: IN: Porter Co: Crooked Creek, 4.5 mi E Valparaiso. Lat. 86 57'41". Long. 41 27'23". Drainage Area: 37.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	16	5
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	71.4	1
7. Proportion of Omnivores	18.9	3
8. Proportion of Insectivores	28.6	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1.0	1
10. Catch Per Unit Effort	206	3
11. Proportion Simple Lithophils	47.6	5
12. Proportion of Individuals with DELT	0.49	3
TOTAL		33

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-025 BASIN Kankakee River

SITE: IN: Porter Co: West Branch of Crooked Creek, 4 mi E Valparaiso. Lat. 86 58'21". long. 41 29'38". Drainage Area: 2.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	73.0	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	43.2	3
7. Proportion of Omnivores	2.7	5
8. Proportion of Insectivores	54.1	5
9. Proportion of Pioneer Species	16.2	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	37	1
11. Proportion Simple Lithophils	43.2	5
12. Proportion of Individuals with DELT	0	5
TOTAL		46

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-026 BASIN Kankakee River

SITE: IN: Porter Co: Crooked Creek, 5.5 mi E Valparaiso. Lat. 86 56'32". Long. 41 29'33". Drainage Area: 11.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	5.5	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	70.9	1
7. Proportion of Omnivores	70.9	1
8. Proportion of Insectivores	11.8	1
9. Proportion of Pioneer Species	17.3	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	110	1
11. Proportion Simple Lithophils	76.4	5
12. Proportion of Individuals with DELT	0	5
TOTAL		28

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-027 BASIN Kankakee River

SITE: IN: Porter Co: Greiger ditch, 4.5 mi NNE Kouts. Lat. 86 56'17". Long. 41 20'48". Drainage Area: 38.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	61.1	1
7. Proportion of Omnivores	55.6	1
8. Proportion of Insectivores	27.8	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	11.1	1
10. Catch Per Unit Effort	18	1
11. Proportion Simple Lithophils	50.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		20

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-028 BASIN Kankakee River

SITE: IN: Reeves ditch, 4 mi ESE Kouts. Lat. 86 56'55". Long. 41 16' 14".
Drainage Area: 49.1 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	23	5
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	2	4
Number of Salmonid Species	-	-
5. Number of Sensitive Species	6	5
6. Percent Abundance of Tolerant Species	40.4	3
7. Proportion of Omnivores	34.9	3
8. Proportion of Insectivores	61.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	6.6	5
10. Catch Per Unit Effort	166	1
11. Proportion Simple Lithophils	19.9	3
12. Proportion of Individuals with DELT	0	5
TOTAL		45

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-031 BASIN Kankakee River

SITE: IN: La Porte Co: Topper ditch, 4 mi N Wanatah. Lat. 86 52'22". Long. 41 29'31". Drainage Area: 1.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	2	1
2. Number of Darter Species	1	4
3. Proportion of Headwater Species	50.0	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	0	1
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	80.0	1
9. Proportion of Pioneer Species	0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	5	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
	TOTAL	23

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-032 BASIN Kankakee River

SITE: IN: La Porte Co: Slocum ditch, Wanatah. Lat. 86 54'01". Long. 41 26'03".
Drainage Area: 2.1 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	26.8	3
Number of Sunfish Species	-	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	26.8	3
7. Proportion of Omnivores	14.4	3
8. Proportion of Insectivores	64.9	5
9. Proportion of Pioneer Species	7.2	5
Proportion of Carnivores	4.1	-
10. Catch Per Unit Effort	97	3
11. Proportion Simple Lithophils	45.4	5
12. Proportion of Individuals with DELT	0	5
TOTAL		46

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-033 BASIN Kankakee River

SITE: IN: La Porte Co: Cook ditch, 1 mi S LaCrosse. Lat. 86 53'44". Long. 41 18'11". Drainage Area: 12.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	17	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	52.1	1
7. Proportion of Omnivores	36.5	1
8. Proportion of Insectivores	61.5	5
9. Proportion of Pioneer Species	21.9	4
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	96	1
11. Proportion Simple Lithophils	25.0	3
12. Proportion of Individuals with DELT	0	5
TOTAL		39

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-035 BASIN Kankakee River

SITE: IN: La Porte Co: Bessler ditch, 2 mi E LaCrosse. Lat. 86 51'11". Long. 41 19'02". Drainage Area: 8.07 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	18	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	7	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	5
6. Percent Abundance of Tolerant Species	17.7	5
7. Proportion of Omnivores	15.6	3
8. Proportion of Insectivores	82.9	5
9. Proportion of Pioneer Species	41.0	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	327	5
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		46

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-036 BASIN Kankakee River

SITE: IN: La Porte Co: Kuehn ditch, 3 mi NNE La Crosse. Lat. 86 51'03". Long. 41 21'08". Drainage Area: 9.39 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	4
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	20.4	3
Number of Sunfish Species	-	-
4. Number of Minnow Species	4	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	31.5	3
7. Proportion of Omnivores	11.1	5
8. Proportion of Insectivores	75.9	5
9. Proportion of Pioneer Species	25.9	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	54	1
11. Proportion Simple Lithophils	35.2	5
12. Proportion of Individuals with DELT	0	5
TOTAL		45

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-038 BASIN Kankakee River

SITE: IN: La Porte Co: Hanna Arm of Tuesburg ditch, 3 mi S Hanna. Lat. 86 46' 31". Long. 41 22'04". Drainage Area: 19.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	23	5
2. Number of Darter Species	4	5
3. Proportion of Headwater Species	4.3	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	8	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	8	5
6. Percent Abundance of Tolerant Species	37.9	3
7. Proportion of Omnivores	31.4	3
8. Proportion of Insectivores	66.4	5
9. Proportion of Pioneer Species	42.1	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	140	3
11. Proportion Simple Lithophils	20.0	3
12. Proportion of Individuals with DELT	0	5
TOTAL		46

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-039 BASIN Kankakee River

SITE: IN: La Porte Co: Richman ditch, 0.75 mi W Hanna. Lat. 86 47'27". Long. 41 24'49". Drainage Area: 6.78 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	52.2	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	4.3	5
7. Proportion of Omnivores	4.3	5
8. Proportion of Insectivores	87.0	5
9. Proportion of Pioneer Species	0	5
Proportion of Carnivores	-	5
10. Catch Per Unit Effort	25	1
11. Proportion Simple Lithophils	21.7	3
12. Proportion of Individuals with DELT	0	5
TOTAL		49

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-040 BASIN Kankakee River

SITE: IN: La Porte Co: Sheldon Arm Hunsley ditch, 0.25 mi NE Hanna. lat. 86 46
09. long. 41 24 37. Drainage Area: 12.4 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	66.7	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	1.9	5
7. Proportion of Omnivores	0	5
8. Proportion of Insectivores	98.1	5
9. Proportion of Pioneer Species	22.2	4
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	54	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		43

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-041 BASIN Kankakee River

SITE: IN: La Porte Co: Rice ditch, 3.5 mi N Hanna. lat. 86 47 44. long. 41 27
44. Drainage Area: 12.4 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	3.2	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	35.5	3
7. Proportion of Omnivores	29.0	3
8. Proportion of Insectivores	54.8	5
9. Proportion of Pioneer Species	48.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	31	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-042 BASIN Kankakee River

SITE: IN: La Porte Co: Mill Creek, 6 mi SW LaPorte. lat. 86 47 31. long. 41 30
48. Drainage Area: 23.9 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	0.9	5
7. Proportion of Omnivores	0.9	5
8. Proportion of Insectivores	92.8	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.6	3
10. Catch Per Unit Effort	111	3
11. Proportion Simple Lithophils	11.7	1
12. Proportion of Individuals with DELT	0.9	3
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-043 BASIN Kankakee River

SITE: IN: La Porte Co: Waltham ditch, 2.5 mi E Kingsford Heights. lat. 86 44
19. long. 41 28 19. Drainage Area: 40.4 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	27.3	3
7. Proportion of Omnivores	9.1	1
8. Proportion of Insectivores	72.7	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	11	1
11. Proportion Simple Lithophils	9.1	1
12. Proportion of Individuals with DELT	0	1
TOTAL		16

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-044 BASIN Kankakee River

SITE: IN: La Porte Co: Waltham ditch, 2.5 mi NNE Hanna. Lat. 86 43 04. long.
41 26 49. Drainage Area: 43.9 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	19	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	8	5
6. Percent Abundance of Tolerant Species	5	5
7. Proportion of Omnivores	19.2	3
8. Proportion of Insectivores	52.1	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	17.8	5
10. Catch Per Unit Effort	73	1
11. Proportion Simple Lithophils	17.8	3
12. Proportion of Individuals with DELT	0	5
TOTAL		48

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-045 BASIN Kankakee RiverSITE: IN: La Porte Co: Salisbury ditch, 4.5 mi NE Hanna. lat. not available.
long. not available. Drainage Area: 19.8 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	11	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	53.3	1
7. Proportion of Omnivores	43.3	1
8. Proportion of Insectivores	36.7	3
9. Proportion of Pioneer Species	3.3	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	30	1
11. Proportion Simple Lithophils	16.7	2
12. Proportion of Individuals with DELT	0	1
	TOTAL	25

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-047 BASIN Kankakee River

SITE: IN: La Porte Co: Long ditch: 1.5 mi E Kingsford Heights. lat. 86 39 38.
long. 41 28 35. Drainage Area: 53.9 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	100	1
7. Proportion of Omnivores	34.8	1
8. Proportion of Insectivores	30.4	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	23	1
11. Proportion Simple Lithophils	60.9	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-048 BASIN Kankakee RiverSITE: IN: La Porte Co: Kingsbury ditch, 2 mi N Kingsbury Heights. lat.
unavailable. long. unavailable. Drainage Area: 7.08 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	91.5	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	23.4	5
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	93.6	1
9. Proportion of Pioneer Species	8.5	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	47	1
11. Proportion Simple Lithophils	17.0	3
12. Proportion of Individuals with DELT	0	5
TOTAL		36

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-049 BASIN Kankakee River

SITE: IN: La Porte Co: Travis ditch, 3.5 mi S LaPorte. lat. 86 47 12. long. 41 32 49. Drainage Area: 19.4 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	0	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	0	1
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	0	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	0	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-050 BASIN Kankakee River

SITE: IN: La Porte Co: Little Kankakee River, 3.75 mi NE LaPorte. lat 86 38
56. long. 41 37 44. Drainage Area: 9.15 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	25.0	1
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	75.0	1
9. Proportion of Pioneer Species	87.5	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	8	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	xx	1
TOTAL		14

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-051 BASIN Kankakee River

SITE: IN: La Porte Co: Little Kankakee River, 7.5 mi SE LaPorte. lat. 86 34
28. long. 41 34 15. Drainage Area: 33.8 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	47.5	3
7. Proportion of Omnivores	21.6	3
8. Proportion of Insectivores	69.6	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0.9	1
10. Catch Per Unit Effort	204	3
11. Proportion Simple Lithophils	34.3	5
12. Proportion of Individuals with DELT	0.5	3
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-052 BASIN Kankakee River

SITE: IN: La Porte Co: Little Kankakee River, 2 mi S Fish Lake. lat. 86 33 57.
long. 41 32 35. Drainage Area: 40.2 sq mi.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	16	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	26.0	3
7. Proportion of Omnivores	18.7	4
8. Proportion of Insectivores	75.6	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.9	3
10. Catch Per Unit Effort	123	1
11. Proportion Simple Lithophils	29.3	3
12. Proportion of Individuals with DELT	0	5
TOTAL		45

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-053 BASIN Kankakee RiverSITE: IN: La Porte Co: Breckenridge ditch, 1 mi SE Stillwell. lat. 86 36'03"
long. 41 32'30'. Drainage Area 11.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	3	1
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	12.0	2
Number of Sunfish Species	-	-
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	8.0	5
7. Proportion of Omnivores	0	5
8. Proportion of Insectivores	100	5
9. Proportion of Pioneer Species	88	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	25	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
	TOTAL	33

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-056 BASIN Kankakee RiverSITE: IN: St. Joseph Co: Potato Creek, 1.1 mi NE North Liberty. lat. 86
24'21". long. 41 32'57". Drainage Area: 17.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	92	1
7. Proportion of Omnivores	16	1
8. Proportion of Insectivores	12	1
9. Proportion of Pioneer Species	80	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	25	1
11. Proportion Simple Lithophils	16	1
12. Proportion of Individuals with DELT	0	5
	TOTAL	16

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-057 BASIN Kankakee River

SITE: IN: St. Joseph Co: Pine Creek, 3 mi N Walkerton. lat. 86 29'11". long.
41 30'19". Drainage Area: 69.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	4
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	52.8	1
7. Proportion of Omnivores	2.4	5
8. Proportion of Insectivores	85.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.4	3
10. Catch Per Unit Effort	127	1
11. Proportion Simple Lithophils	0.8	1
12. Proportion of Individuals with DELT	0	5
TOTAL		33

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-058 BASIN Kankakee RiverSITE: IN: St. Joseph: Jordan Creek, 2.5 mi NE Walkerton. lat. 86 25'34" long.
41 29'16". Drainage Area: 1.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	4
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	31.7	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	87.8	1
7. Proportion of Omnivores	12.2	3
8. Proportion of Insectivores	39.0	5
9. Proportion of Pioneer Species	31.7	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	41	1
11. Proportion Simple Lithophils	29.3	3
12. Proportion of Individuals with DELT	0	5
TOTAL		39

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-059 BASIN Kankakee River

SITE: IN: St. Joseph Co: Potato Creek, 1.5 mi W North Liberty. lat. 86 27'13".
long. 41 32'04". Drainage Area: 34.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	77.4	1
7. Proportion of Omnivores	19.0	3
8. Proportion of Insectivores	36.9	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	84	1
11. Proportion Simple Lithophils	21.4	3
12. Proportion of Individuals with DELT	0	5
TOTAL		29

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-062 BASIN Kankakee RiverSITE: IN: Marshall Co: Yellow Bank Creek, 1 mi NW Teegarden. lat. 86 23'50".
long. 41 28'29". Drainage Area: 5.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	4
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	68.4	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	86.5	1
7. Proportion of Omnivores	9.5	4
8. Proportion of Insectivores	77.0	5
9. Proportion of Pioneer Species	9.9	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	304	5
11. Proportion Simple Lithophils	64.8	5
12. Proportion of Individuals with DELT	0	5
	TOTAL	48

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-064 BASIN Kankakee River

SITE: IN: St. Joseph Co: Geyer ditch: 2 mi N Crumstown. lat. 86 24'50". long.
41 39'01". Drainage Area: 56.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	2
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	18.8	5
7. Proportion of Omnivores	12.5	1
8. Proportion of Insectivores	75.0	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	12.5	1
10. Catch Per Unit Effort	16	1
11. Proportion Simple Lithophils	12.5	1
12. Proportion of Individuals with DELT	0	1
TOTAL		21

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-065 BASIN Kankakee RiverSITE: IN: St. Joseph Co: Geyer ditch: 5.3 mi E New Carlisle. lat. 86 24'10".
long. 41 40'19". Drainage Area: 47.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	3
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	43.1	3
7. Proportion of Omnivores	41.4	1
8. Proportion of Insectivores	44.8	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	15.5	5
10. Catch Per Unit Effort	58	1
11. Proportion Simple Lithophils	20.7	3
12. Proportion of Individuals with DELT	0	5
	TOTAL	32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-066 BASIN Kankakee River

SITE: IN: St. Joseph Co: Geyer ditch, 4.5 mi E New Carlisle. lat. 86 25'02".
long. 41 42'38". Drainage Area: 30.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	59.7	1
7. Proportion of Omnivores	31.9	3
8. Proportion of Insectivores	59.7	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.2	3
10. Catch Per Unit Effort	72	1
11. Proportion Simple Lithophils	16.7	2
12. Proportion of Individuals with DELT	0	5
TOTAL		28

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-067 BASIN Kankakee RiverSITE: IN: Marshall Co: Peter Sarber ditch, 2 mi E Tyner. lat. 86 22'15". long.
41 24'46". Drainage Area: 11.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	34.0	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	62.0	1
7. Proportion of Omnivores	10.0	5
8. Proportion of Insectivores	64.0	5
9. Proportion of Pioneer Species	26.0	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	50	1
11. Proportion Simple Lithophils	20	3
12. Proportion of Individuals with DELT	0	5
	TOTAL	38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-068 BASIN Kankakee River

SITE: IN: Marshall Co: Elmer Seltenright ditch: 1 mi S La Paz. lat. 41 26'22".
long. 86 17'44". Drainage Area: 2.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	65.0	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	20.0	5
7. Proportion of Omnivores	10.0	1
8. Proportion of Insectivores	85.0	1
9. Proportion of Pioneer Species	20.0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	20	1
11. Proportion Simple Lithophils	5.0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		26

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-069 BASIN Kankakee River

SITE: IN: Marshall Co: Crews ditch, 5 mi E Plymouth. lat. 86 21'32". long. 41 19'25". Drainage Area: 6.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	9.6	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	4	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	81.5	1
7. Proportion of Omnivores	52.1	1
8. Proportion of Insectivores	15.1	1
9. Proportion of Pioneer Species	32.8	3
Proportion of Carnivores	3.4	-
10. Catch Per Unit Effort	146	3
11. Proportion Simple Lithophils	32.2	3
12. Proportion of Individuals with DELT	0	5
TOTAL		32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-070 BASIN Kankakee River

SITE: IN: Kosciusko Co: Dausman ditch, 4.75 mi S Nappanee. lat. 85 58'00".
long. 41 22'11". Drainage Area: 17.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	2.2	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	17.4	5
7. Proportion of Omnivores	15.2	5
8. Proportion of Insectivores	67.4	5
9. Proportion of Pioneer Species	30.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	46	1
11. Proportion Simple Lithophils	15.2	1
12. Proportion of Individuals with DELT	0	1
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-071 BASIN Kankakee River

SITE: IN: Kosciusko Co: Middle Fork Yellow River, 2.25 mi S Nappanee. lat. 86
00'05" long. 41 24'50".

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	3	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	87.5	1
7. Proportion of Omnivores	50.0	1
8. Proportion of Insectivores	12.5	1
9. Proportion of Pioneer Species	37.5	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	8	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-072 BASIN Kankakee River

SITE: IN: Elkhart Co: Lost Creek, 3.5 mi NW Nappanee. lat. 86 02'26". long. 41 29'50". Drainage Area: 4.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	11	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	12.9	3
Number of Sunfish Species	-	-
4. Number of Minnow Species	8	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	45.5	3
7. Proportion of Omnivores	19.8	3
8. Proportion of Insectivores	50.5	5
9. Proportion of Pioneer Species	53.5	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	101	3
11. Proportion Simple Lithophils	27.7	3
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-073 BASIN Kankakee River

SITE: IN: St. Joseph Co: Pine Creek, 0.3 mi E Walkerton. lat. 86 28'18" long.
41 27'27". Drainage Area: 17.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	2
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	72.5	1
7. Proportion of Omnivores	65.0	1
8. Proportion of Insectivores	12.5	1
9. Proportion of Pioneer Species	12.5	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	40	1
11. Proportion Simple Lithophils	27.5	3
12. Proportion of Individuals with DELT	0	1
TOTAL		15

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-074 BASIN Kankakee River

SITE: IN: Marshall Co: Peter Sarber ditch, 1 mi N Tyner. lat. 86 25'31". long.
41 25'47". Drainage Area: 20.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	63.7	1
7. Proportion of Omnivores	6.4	5
8. Proportion of Insectivores	38.2	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0.6	1
10. Catch Per Unit Effort	157	3
11. Proportion Simple Lithophils	17.8	3
12. Proportion of Individuals with DELT	0	5
TOTAL		32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-075 BASIN Kankakee River

SITE: IN: Starke Co: Robbins ditch, 3 mi W Hamlet. lat. 86 38'24". long. 41 23'10". Drainage Area: 66.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	18	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	5	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	32.5	3
7. Proportion of Omnivores	23.4	3
8. Proportion of Insectivores	43.7	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	37.7	5
10. Catch Per Unit Effort	77	1
11. Proportion Simple Lithophils	5.2	1
12. Proportion of Individuals with DELT	0	5
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-076 BASIN Kankakee River

SITE: IN: Starke Co: Robbins ditch, 1 mi NW Hamlet. lat. 86 36'05". long. 41 24'22". Drainage Area: 30.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	19	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	3
6. Percent Abundance of Tolerant Species	33.0	3
7. Proportion of Omnivores	27.8	3
8. Proportion of Insectivores	48.4	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	23.7	5
10. Catch Per Unit Effort	97	1
11. Proportion Simple Lithophils	6.2	1
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-077 BASIN Kankakee River

SITE: IN: Starke Co: Robbins ditch, 2.5 mi N Hamlet. lat. 86 33'39". long. 41 25'33". Drainage Area: 20.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	2	4
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	45.2	3
7. Proportion of Omnivores	21.4	3
8. Proportion of Insectivores	69.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	9.5	5
10. Catch Per Unit Effort	42	1
11. Proportion Simple Lithophils	7.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		43

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-078 BASIN Kankakee River

SITE: IN: Starke Co: Robbins ditch, 0.75 mi NW Koontz Lake. lat. 86 30'10".
long. 41 25'05". Drainage Area: 12.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	6.3	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	18.8	5
7. Proportion of Omnivores	12.5	1
8. Proportion of Insectivores	68.8	1
9. Proportion of Pioneer Species	37.5	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	16	1
11. Proportion Simple Lithophils	25	1
12. Proportion of Individuals with DELT	0	1
TOTAL		22

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-079 BASIN Kankakee River

SITE: IN: Starke Co: Jain ditch, 2.5 mi NE Hamlet. lat. 86 32'27". long. 41 23'22". Drainage Area: 14.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	15.8	3
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	36.8	3
7. Proportion of Omnivores	5.3	1
8. Proportion of Insectivores	84.2	1
9. Proportion of Pioneer Species	47.4	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	19	1
11. Proportion Simple Lithophils	21.1	1
12. Proportion of Individuals with DELT	0	1
TOTAL		24

CENTRAL CORN BELT PLAIN Ecoregion

Site Specific Index of Biotic Integrity Scores

Site Number 90-080 BASIN Kankakee River

SITE: IN: Starke Co: Eagle Creek, 6.25 mi E Knox. lat. 86 30'00" long. 41 18'36". Drainage Area: 25.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	3
6. Percent Abundance of Tolerant Species	16.7	5
7. Proportion of Omnivores	14.6	5
8. Proportion of Insectivores	81.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.2	3
10. Catch Per Unit Effort	48	1
11. Proportion Simple Lithophils	52.1	5
12. Proportion of Individuals with DELT	0	5
TOTAL		46

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-081 BASIN Kankakee RiverSITE: IN: Starke Co: Yellow River, 1 mi E Knox. lat. 86 36'05" long. 41
18'08". Drainage Area: 435 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	22	5
2. Number of Darter Species	3	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	3	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	8	5
6. Percent Abundance of Tolerant Species	38.0	3
7. Proportion of Omnivores	30.2	3
8. Proportion of Insectivores	63.7	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	5.0	5
10. Catch Per Unit Effort	179	1
11. Proportion Simple Lithophils	14.5	1
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-082 BASIN Kankakee River

SITE: IN: Starke Co: Yellow River, 4 mi W Knox. lat. 86 41'05". long. 41 18'22". Drainage Area: 606.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	32	5
2. Number of Darter Species	3	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	4	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	10	5
6. Percent Abundance of Tolerant Species	13.1	5
7. Proportion of Omnivores	13.0	5
8. Proportion of Insectivores	84.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.2	3
10. Catch Per Unit Effort	686	5
11. Proportion Simple Lithophils	4.4	1
12. Proportion of Individuals with DELT	0	5
TOTAL		50

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-083 BASIN Kankakee River

SITE: IN: Starke Co: Craigmile ditch, 5 mile W Knox. lat. 86 43'03". long. 41 17'17". Drainage Area: 39.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	18	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	43.7	3
7. Proportion of Omnivores	16.9	4
8. Proportion of Insectivores	77.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.2	3
10. Catch Per Unit Effort	71	1
11. Proportion Simple Lithophils	14.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		41

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-084 BASIN Kankakee River

SITE: IN: Starke Co: Yellow River, 5 mi E Knox. lat. 86 31'28". long. 41 16'58". Drainage Area: 383 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	25	5
2. Number of Darter Species	3	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	4	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	9	5
6. Percent Abundance of Tolerant Species	26.7	3
7. Proportion of Omnivores	22.2	3
8. Proportion of Insectivores	65.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	8.0	5
10. Catch Per Unit Effort	176	1
11. Proportion Simple Lithophils	17.0	2
12. Proportion of Individuals with DELT	0	5
TOTAL		45

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-085 BASIN Kankakee River

SITE: IN: Starke Co: Craigmile ditch, 4 mi SW Knox. lat. 86 42'29". long. 41 15'33". Drainage Area: 13.1 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	1	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	52.3	1
7. Proportion of Omnivores	2.7	5
8. Proportion of Insectivores	55.7	5
9. Proportion of Pioneer Species	42.3	3
Proportion of Carnivores	2.0	1
10. Catch Per Unit Effort	149	3
11. Proportion Simple Lithophils	35.6	5
12. Proportion of Individuals with DELT	0	5
	TOTAL	43

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-086 BASIN Kankakee River

SITE: IN: Starke Co: Unnamed tributary near English Lake, 3 mi NW North Judson. lat. 86 50'12". long. 41 15'32". Drainage Area: 12.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	16.7	5
7. Proportion of Omnivores	16.7	1
8. Proportion of Insectivores	77.8	1
9. Proportion of Pioneer Species	88.9	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	18	1
11. Proportion Simple Lithophils	5.6	1
12. Proportion of Individuals with DELT	0	1
TOTAL		18

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-087 BASIN Kankakee River

SITE: IN: Starke Co: Bogus Run ditch: 2 mi E North Judson. lat. 86 44'13".
long. 41 12'56". Drainage Area: 26.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	16	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	29.2	3
7. Proportion of Omnivores	12.5	5
8. Proportion of Insectivores	73.6	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	13.9	5
10. Catch Per Unit Effort	72	1
11. Proportion Simple Lithophils	11.1	1
12. Proportion of Individuals with DELT	1.4	3
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-088 BASIN Kankakee RiverSITE: IN: Starke Co: Bogus Run ditch, 2 mi SE North Judson. lat. 86 44'12".
long. 41 11'11". Drainage Area: 16.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	60.6	1
7. Proportion of Omnivores	18.2	4
8. Proportion of Insectivores	57.6	5
9. Proportion of Pioneer Species	42.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	33	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
	TOTAL	27

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-089 BASIN Kankakee RiverSITE: IN: Starke Co: Cedar Lake ditch, 6.1 mi E North Judson. lat. 86 39'27".
long. 41 12'54". Drainage Area: 8.18 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	3	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	92.3	1
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	92.3	1
9. Proportion of Pioneer Species	92.3	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	13	1
11. Proportion Simple Lithophils	7.7	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-092 BASIN Kankakee River

SITE: IN: Marshall Co: Peter Sarber ditch, 8.5 mi NW Plymouth. lat. 86 27'01".
long. 41 27'21". Drainage Area: 32.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	81.7	1
7. Proportion of Omnivores	12.7	5
8. Proportion of Insectivores	43.7	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1.4	1
10. Catch Per Unit Effort	71	1
11. Proportion Simple Lithophils	7.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		27

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-093 BASIN Kankakee River

SITE: IN: Marshall Co: Harry Cool ditch, 5.5 mi SE Plymouth. lat. 86 24'54".
long. 41 17'55". Drainage Area: 5.77 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	4
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	18.3	5
7. Proportion of Omnivores	13.1	4
8. Proportion of Insectivores	70.8	5
9. Proportion of Pioneer Species	4.6	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	175	3
11. Proportion Simple Lithophils	13.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-094 BASIN Kankakee River

SITE: IN: Marshall Co: Wolf Creek, 4.75 mi S Plymouth. lat. 86 18'32" long. 41 15'40". Drainage Area: 28.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	64.7	1
7. Proportion of Omnivores	9.2	5
8. Proportion of Insectivores	69.6	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	207	3
11. Proportion Simple Lithophils	52.7	5
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-095 BASIN Kankakee RiverSITE: IN: Marshall Co: Elmer Seltenright ditch, 4 mi N Plymouth. lat. 86
18'03". long. 41 24'02". Drainage Area: 18.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	2	4
3. Proportion of Headwater Species	55.6	5
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	40.0	3
7. Proportion of Omnivores	22.2	3
8. Proportion of Insectivores	75.6	5
9. Proportion of Pioneer Species	20.0	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	45	1
11. Proportion Simple Lithophils	22.2	3
12. Proportion of Individuals with DELT	0	5
	TOTAL	39

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-096 BASIN Kankakee River

SITE: IN: Marshall Co: Yellow River, 2.25 mi N Breman. lat. 86 10'13". long.
41 28'31". Drainage Area: 32.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	17	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	51	1
7. Proportion of Omnivores	17	3
8. Proportion of Insectivores	74	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1	1
10. Catch Per Unit Effort	100	1
11. Proportion Simple Lithophils	11	1
12. Proportion of Individuals with DELT	0	5
TOTAL		32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-097 BASIN Kankakee River

SITE: IN: Marshall Co: Arney ditch, 1.5 mi E Bremen. lat. 86 08'09". long. 41 24'18". Drainage Area: 19.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	32.6	3
7. Proportion of Omnivores	28.3	3
8. Proportion of Insectivores	71.7	5
9. Proportion of Pioneer Species	50.0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	46	1
11. Proportion Simple Lithophils	23.9	3
12. Proportion of Individuals with DELT	0	5
	TOTAL	30

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-098 BASIN Kankakee River

SITE: IN: Marshall Co: Yellow River, 1.5 mi SW Bremen. lat. 86 10'22". long.
41 26'08". Drainage Area: 84.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	15	4
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	2
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	48.5	3
7. Proportion of Omnivores	25.0	3
8. Proportion of Insectivores	70.6	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.9	3
10. Catch Per Unit Effort	68	1
11. Proportion Simple Lithophils	48.5	5
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-099 BASIN Kankakee River

SITE: IN: Marshall Co: Stock ditch, 2.5 mi W Bremen. lat. 86 11'29". long. 41 26'25". Drainage Area: 45.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	20	5
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	3
6. Percent Abundance of Tolerant Species	43.0	3
7. Proportion of Omnivores	37.0	3
8. Proportion of Insectivores	46.0	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	15.0	5
10. Catch Per Unit Effort	100	1
11. Proportion Simple Lithophils	16.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-100 BASIN Kankakee River

SITE: IN: Marshall Co: Yellow River, 2.5 mi S Bremen. lat. 86 10'52". long. 41 24'21". Drainage Area: 142 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	25	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	3	4
Number of Salmonid Species	-	-
5. Number of Sensitive Species	6	5
6. Percent Abundance of Tolerant Species	40.9	3
7. Proportion of Omnivores	14.2	5
8. Proportion of Insectivores	80.9	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1.8	2
10. Catch Per Unit Effort	225	3
11. Proportion Simple Lithophils	33.3	4
12. Proportion of Individuals with DELT	0	5
	TOTAL	49

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-101 BASIN Kankakee RiverSITE: IN: Marshall Co: Dausman Ditch, 4.5 mi S Bremen. lat. 86 09'26". long.
41 22'33". Drainage Area: 55.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	18	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	3
6. Percent Abundance of Tolerant Species	45.3	3
7. Proportion of Omnivores	22.7	3
8. Proportion of Insectivores	70.7	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	6.7	5
10. Catch Per Unit Effort	75	1
11. Proportion Simple Lithophils	42.7	5
12. Proportion of Individuals with DELT	1.3	3
TOTAL		44

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-102 BASIN Kankakee River

SITE: IN: Marshall Co: Dausman ditch, 5 mi SE Bremen. lat. 36 55'50". long. 41 22'21". Drainage Area: 53.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	27	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	4	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	7	5
6. Percent Abundance of Tolerant Species	44.7	3
7. Proportion of Omnivores	43.7	1
8. Proportion of Insectivores	62.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.6	3
10. Catch Per Unit Effort	302	3
11. Proportion Simple Lithophils	27.8	3
12. Proportion of Individuals with DELT	0	5
	TOTAL	46

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-105 BASIN Kankakee River

SITE: IN: Marshall Co: Yellow River, Plymouth. lat. 86 16'01". long. 41 20'22". Drainage Area: 294 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	19	5
2. Number of Darter Species	3	4
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	1	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	3
6. Percent Abundance of Tolerant Species	43.1	3
7. Proportion of Omnivores	7.5	5
8. Proportion of Insectivores	82.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	9.4	5
10. Catch Per Unit Effort	318	3
11. Proportion Simple Lithophils	19.8	3
12. Proportion of Individuals with DELT	0	5
TOTAL		47

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-106 BASIN Kankakee River

SITE: IN: Marshall Co: Yellow River, 4.5 mi S Plymouth. lat. 86 20'08". long.
41 16'22". Drainage Area: 353 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	26	5
2. Number of Darter Species	3	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	3	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	8	5
6. Percent Abundance of Tolerant Species	41.0	3
7. Proportion of Omnivores	25.5	3
8. Proportion of Insectivores	50.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	14.1	5
10. Catch Per Unit Effort	290	3
11. Proportion Simple Lithophils	28.3	3
12. Proportion of Individuals with DELT	0.3	3
TOTAL		44

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-107 BASIN Kankakee River

SITE: IN: Marshall Co: Yellow River, 5.5 mi S Bremen. lat. 86 11'39". long. 41 21'06". Drainage Area: 235 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	20	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	5	3
6. Percent Abundance of Tolerant Species	21	5
7. Proportion of Omnivores	21	5
8. Proportion of Insectivores	72.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	6.7	5
10. Catch Per Unit Effort	105	1
11. Proportion Simple Lithophils	47.6	5
12. Proportion of Individuals with DELT	0	5
	TOTAL	50

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-108 BASIN Kankakee River

SITE: IN: Marshall Co: Yellow River, 4.5 mi SW Plymouth. lat. 86 23'09". long.
41 16'14". Drainage Area: 363 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	30	5
2. Number of Darter Species	5	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	4	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	12	5
6. Percent Abundance of Tolerant Species	16.7	5
7. Proportion of Omnivores	15.3	5
8. Proportion of Insectivores	83.2	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	8.4	5
10. Catch Per Unit Effort	443	4
11. Proportion Simple Lithophils	40.9	5
12. Proportion of Individuals with DELT	0	5
TOTAL		57

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-109 BASIN Kankakee River

SITE: IN: Marshall Co: Yellow River, 7.5 mi SW Plymouth. lat. 86 27'14". long.
41 16'23". Drainage Area: 373 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	37	5
2. Number of Darter Species	4	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	5	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	14	5
6. Percent Abundance of Tolerant Species	26.6	3
7. Proportion of Omnivores	22.9	3
8. Proportion of Insectivores	65.9	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	6.7	5
10. Catch Per Unit Effort	507	5
11. Proportion Simple Lithophils	15.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		52

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-110 BASIN Kankakee River

SITE: IN: Pulaski Co: Bogus Run, 5 mi NW Beardstown. lat. 86 42'04". long. 41 09'27". Drainage Area: 8.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	5
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	61.7	1
7. Proportion of Omnivores	13.3	3
8. Proportion of Insectivores	66.7	5
9. Proportion of Pioneer Species	51.7	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	60	3
11. Proportion Simple Lithophils	16.7	1
12. Proportion of Individuals with DELT	0	5
TOTAL		36

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-111 BASIN Kankakee RiverSITE: IN: Pulaski Co: Oliver ditch, 5 mi N Medaryville. lat. 86 54'27". long.
41 09'29". Drainage Area: 5.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	17	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	41.7	3
7. Proportion of Omnivores	15.7	3
8. Proportion of Insectivores	68.7	5
9. Proportion of Pioneer Species	40.0	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	115	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-112 BASIN Iroquois River

SITE: IN: Newton Co: Hunter ditch: 6.5 mi NE Kentland. lat. 87 19'05" long. 40 48'32". Drainage Area: 20.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	29.5	3
7. Proportion of Omnivores	13.2	5
8. Proportion of Insectivores	64.3	5
9. Proportion of Pioneer Species	40.3	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	129	2
11. Proportion Simple Lithophils	39.5	5
12. Proportion of Individuals with DELT	0	5
TOTAL		41

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-113 BASIN Iroquois RiverSITE: IN: Newton Co: Darroch ditch, 5.5 mi E Kentland. lat. 87 20'04". long.
40 46'22". Drainage Area: 1.23 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	5
2. Number of Darter Species	1	4
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	38.5	3
7. Proportion of Omnivores	18.8	1
8. Proportion of Insectivores	69.8	5
9. Proportion of Pioneer Species	41.7	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	96	3
11. Proportion Simple Lithophils	49.0	5
12. Proportion of Individuals with DELT	0	5
TOTAL		41

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-114 BASIN Iroquois River

SITE: IN: Newton Co: Darroch ditch: 7.5 mi NE Kentland. lat. 87 20'36". long.
40 48'33". Drainage Area: 10.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	32.4	3
7. Proportion of Omnivores	21.6	3
8. Proportion of Insectivores	41.9	5
9. Proportion of Pioneer Species	61.4	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	482	5
11. Proportion Simple Lithophils	25.5	3
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-115 BASIN Iroquois River

SITE: IN: Newton Co: Montgomery ditch, 3.5 mi E Kentland. lat. 87 22'39".
long. 40 46'23". Drainage Area: 8.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	12.7	5
7. Proportion of Omnivores	7.8	5
8. Proportion of Insectivores	33.3	3
9. Proportion of Pioneer Species	79.4	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	204	3
11. Proportion Simple Lithophils	11.3	1
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-116 BASIN Iroquois River

SITE: IN: Newton Co: Montgomery ditch, 2.75 mi NE Kentland. lat. 87 24'04".
long. 40 48'15". Drainage Area: 17.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	19	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	0.5	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	8	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	21.2	5
7. Proportion of Omnivores	7.7	5
8. Proportion of Insectivores	61.1	5
9. Proportion of Pioneer Species	38.9	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	208	3
11. Proportion Simple Lithophils	25	3
12. Proportion of Individuals with DELT	0	5
TOTAL		48

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-121 BASIN Iroquois RiverSITE: IN: Newton Co: Montgomery ditch, 2.5 mi NW Kentland. lat. 87 28'39".
long. 40 48'19". Drainage Area: 42.1 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	16	5
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	5	3
6. Percent Abundance of Tolerant Species	23.6	5
7. Proportion of Omnivores	17.3	5
8. Proportion of Insectivores	53.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.7	3
10. Catch Per Unit Effort	127	1
11. Proportion Simple Lithophils	18.9	3
12. Proportion of Individuals with DELT	0	5
TOTAL		44

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-122 BASIN Iroquois River

SITE: IN: Newton Co: Whaley ditch, 5.75 mi NW Kentland. lat. 87 31'28". long.
40 51'06". Drainage Area: 3.06 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	21	5
2. Number of Darter Species	4	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	7	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	37.2	3
7. Proportion of Omnivores	5.8	5
8. Proportion of Insectivores	71.2	5
9. Proportion of Pioneer Species	53.4	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	191	5
11. Proportion Simple Lithophils	27.2	3
12. Proportion of Individuals with DELT	0	5
TOTAL		47

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-123 BASIN Iroquois River

SITE: IN: Newton Co: Thompson ditch, 4.5 mi W Brook. lat. 87 26'57". long. 40 51'32". Drainage Area: 17.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	16	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	22.4	5
7. Proportion of Omnivores	6.0	5
8. Proportion of Insectivores	82.1	5
9. Proportion of Pioneer Species	20.9	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	67	1
11. Proportion Simple Lithophils	26.9	3
12. Proportion of Individuals with DELT	0	5
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-124 BASIN Iroquois River

SITE: IN: Newton Co: Beaver Creek, 3.25 mi W Morocco. lat. 87 30'29". long. 40 57'10". Drainage Area: 59.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	23	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	9	5
6. Percent Abundance of Tolerant Species	20.9	5
7. Proportion of Omnivores	9.9	5
8. Proportion of Insectivores	83.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	5.5	5
10. Catch Per Unit Effort	91	1
11. Proportion Simple Lithophils	11.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		52

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-125 BASIN Iroquois River

SITE: IN: Newton Co: Beaver Creek, 1.5 mi N Morocco. lat. 87 25'54". long. 40 58'10". Drainage Area: 31.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	4
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	5
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	61.2	1
7. Proportion of Omnivores	5.8	5
8. Proportion of Insectivores	88.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	5.8	5
10. Catch Per Unit Effort	103	2
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		36

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-126 BASIN Iroquois River

SITE: IN: Newton Co: Narrows ditch, 3 mi NE Morocco. lat. 87 23'33". long. 40 59'21". Drainage Area: 11.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	17	5
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	2
6. Percent Abundance of Tolerant Species	19.6	5
7. Proportion of Omnivores	8.7	5
8. Proportion of Insectivores	82.6	5
9. Proportion of Pioneer Species	15.2	5
Proportion of Carnivores	13.0	-
10. Catch Per Unit Effort	46	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-127 BASIN Lake Michigan

SITE: IN: Lake Co: Deep River, Merrillville. lat. not available. long. not available. Drainage Area: 65.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	39.3	3
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	82.1	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	10.7	1
10. Catch Per Unit Effort	28	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
	TOTAL	18

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-128 BASIN Kankakee River

SITE: IN: Newton Co: Mud Lake ditch, 4.5 mi NE Enos. lat. 87 22'17". long. 41 03'56". Drainage Area: 7.41 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	4
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	21.3	5
7. Proportion of Omnivores	0	5
8. Proportion of Insectivores	85.1	5
9. Proportion of Pioneer Species	34.0	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	47	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		35

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-129 BASIN Kankakee RiverSITE: IN: Newton Co: Beaver Lake ditch, 4 mi S Lake Village. lat. 87 25'47".
long. 41 04'52". Drainage Area: 32.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	15	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	37.5	3
7. Proportion of Omnivores	12.5	5
8. Proportion of Insectivores	83.8	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	16.3	5
10. Catch Per Unit Effort	80	1
11. Proportion Simple Lithophils	1.3	1
12. Proportion of Individuals with DELT	12.5	1
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-130 BASIN Kankakee River

SITE: IN: Newton Co: Knight ditch, 4 mi SE Lake Village. lat. 87 22'18". long.
41 06'02". Drainage Area: 29.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	4
6. Percent Abundance of Tolerant Species	21.4	5
7. Proportion of Omnivores	2.9	5
8. Proportion of Insectivores	84.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	12.9	5
10. Catch Per Unit Effort	70	1
11. Proportion Simple Lithophils	5.7	1
12. Proportion of Individuals with DELT	1.4	3
TOTAL		45

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-131 BASIN Kankakee RiverSITE: IN: Newton Co: Knight ditch, 1.75 mi E Lake Village. lat. 87 27'36".
long. 41 08'14". Drainage Area: 45.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	0	5
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	50	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	50	1
10. Catch Per Unit Effort	6	1
11. Proportion Simple Lithophils	33.3	1
12. Proportion of Individuals with DELT	0	1
TOTAL		21

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-132 BASIN Kankakee RiverSITE: IN: Newton Co: Beaver Lake ditch, 0.5 mi W Lake Village. lat. 87 24'48"
long. 41 08'14". Drainage Area: 57.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	11	3
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	25.9	3
7. Proportion of Omnivores	1.7	5
8. Proportion of Insectivores	86.2	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	10.3	5
10. Catch Per Unit Effort	58	1
11. Proportion Simple Lithophils	17.2	3
12. Proportion of Individuals with DELT	0	5
	TOTAL	40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-133 BASIN Kankakee RiverSITE: IN: Newton Co: Best ditch, 3.25 mi W Lake Village. lat. 87 30'39". long.
41 08'15". Drainage Area: 7.71 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	53.2	1
7. Proportion of Omnivores	46.8	5
8. Proportion of Insectivores	83.0	5
9. Proportion of Pioneer Species	23.4	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	47	3
11. Proportion Simple Lithophils	6.4	1
12. Proportion of Individuals with DELT	0	5
TOTAL		32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-134 BASIN Kankakee RiverSITE: IN: Jasper Co: Carpenter Creek, 2.5 mi N Remington. lat. 87 10'23".
long. 40 47'55". Drainage Area: 28.1 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	22	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	7	5
6. Percent Abundance of Tolerant Species	19.7	5
7. Proportion of Omnivores	9.3	5
8. Proportion of Insectivores	54.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.4	3
10. Catch Per Unit Effort	633	5
11. Proportion Simple Lithophils	32.7	3
12. Proportion of Individuals with DELT	0	5
TOTAL		54

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-135 BASIN Kankakee River

SITE: IN: Jasper Co: Gushwa ditch, 5.5 mi NW Remington. lat. 87 16' 04". long. 40 49'47". Drainage Area: 13.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	33.3	3
7. Proportion of Omnivores	7.3	5
8. Proportion of Insectivores	86.2	5
9. Proportion of Pioneer Species	22.9	4
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	109	3
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		39

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-136 BASIN Kankakee River

SITE: IN: Jasper Co: Bice ditch, 4.75 mi S Rensselaer. lat. 87 05'30". long.
40 52'00". Drainage Area: 21.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	10.6	5
7. Proportion of Omnivores	6.7	5
8. Proportion of Insectivores	56.7	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	26.0	5
10. Catch Per Unit Effort	104	1
11. Proportion Simple Lithophils	36.5	5
12. Proportion of Individuals with DELT	0	5
TOTAL		50

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-137 BASIN Kankakee River

SITE: IN: Jasper Co: Carpenter Creek, 0.75 mi NW Egypt. lat. 87 12'20". long.
40 51'59". Drainage Area: 44.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	25.5	3
7. Proportion of Omnivores	4.7	5
8. Proportion of Insectivores	65.1	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	212	3
11. Proportion Simple Lithophils	33.5	5
12. Proportion of Individuals with DELT	0	5
TOTAL		37

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-138 BASIN Kankakee River

SITE: IN: Jasper Co: Slough Creek, 6 mi SE Rennsselaer. lat. 87 02'06". long.
40 53'52". Drainage Area: 27.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	19.0	5
7. Proportion of Omnivores	6.9	5
8. Proportion of Insectivores	84.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	15.5	5
10. Catch Per Unit Effort	58	1
11. Proportion Simple Lithophils	12.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		41

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-139 BASIN Iroquois River

SITE: IN: Jasper Co: Slough Creek, 3 mi S Rensselaer. lat. 87 09'17". long. 40 53'29". Drainage Area: 83.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	15	3
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	3
6. Percent Abundance of Tolerant Species	36.7	3
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	77.6	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	22.4	1
10. Catch Per Unit Effort	49	1
11. Proportion Simple Lithophils	6.1	1
12. Proportion of Individuals with DELT	0	1
TOTAL		25

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-141 BASIN Iroquois River

SITE: IN: Jasper Co: Oliver ditch, 2.5 mi NE Rensselaer. lat. 87 05'38".
long. 40 57'19". Drainage Area: 50.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	3
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	4
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	4	3
6. Percent Abundance of Tolerant Species	50.7	1
7. Proportion of Omnivores	22.5	3
8. Proportion of Insectivores	64.8	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	11.3	5
10. Catch Per Unit Effort	71	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		37

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-142 BASIN Iroquois River

SITE: IN: Jasper Co: Iroquois River, 2.25 mi N Rensselaer. lat. 87 06'51".
long. 40 58'12". Drainage Area: 144 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	22	5
2. Number of Darter Species	3	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	6	5
4. Number of Minnow Species	-	-
Number of Sucker Species	3	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	8	5
6. Percent Abundance of Tolerant Species	42.0	3
7. Proportion of Omnivores	6.6	5
8. Proportion of Insectivores	82.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	8.3	5
10. Catch Per Unit Effort	181	3
11. Proportion Simple Lithophils	5.5	1
12. Proportion of Individuals with DELT	0	5
TOTAL		48

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-143 BASIN Iroquois River

SITE: IN: Jasper Co: Ryan ditch, 7.75 mi E Rensselaer. lat. 87 00'10". long.
40 58'53". Drainage Area: 28.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	4
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	57.4	1
7. Proportion of Omnivores	16.4	5
8. Proportion of Insectivores	75.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.3	3
10. Catch Per Unit Effort	61	1
11. Proportion Simple Lithophils	1.6	1
12. Proportion of Individuals with DELT	0	5
TOTAL		35

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-144 BASIN Iroquois River

SITE: IN: Jasper Co: Oliver ditch, 2 mi W Lewiston. lat. 87 05'03". long. 41 02'41". Drainage Area: 79.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	21	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	2	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	6	5
6. Percent Abundance of Tolerant Species	27.3	3
7. Proportion of Omnivores	14.4	5
8. Proportion of Insectivores	80.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	5.3	5
10. Catch Per Unit Effort	132	1
11. Proportion Simple Lithophils	17.4	3
12. Proportion of Individuals with DELT	0	5
TOTAL		50

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-145 BASIN Iroquois River

SITE: IN: Jasper Co: Lateral ditch Number 77, 3.1 mi N Lewiston. lat. 87
02'45". long. 41 04'24". Drainage Area: 25.1 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	19	5
2. Number of Darter Species	4	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	8	5
6. Percent Abundance of Tolerant Species	38.8	3
7. Proportion of Omnivores	10.7	5
8. Proportion of Insectivores	86.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.9	3
10. Catch Per Unit Effort	103	2
11. Proportion Simple Lithophils	26.2	3
12. Proportion of Individuals with DELT	0	5
TOTAL		49

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-146 BASIN Iroquois River

SITE: IN: Oliver ditch, 6.5 mi S Wheatfield. lat. 87 01'07". long. 41 05'34".

Drainage Area: 26.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	4
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	36.7	3
7. Proportion of Omnivores	6.1	1
8. Proportion of Insectivores	85.7	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	8.2	1
10. Catch Per Unit Effort	49	1
11. Proportion Simple Lithophils	18.4	3
12. Proportion of Individuals with DELT	0	5
TOTAL		29

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-147 BASIN Iroquois River

SITE: IN: Jasper Co: Oliver ditch, 5 mi SE Wheatfield. Lat. 86 57'15". Long. 41 08'11". Drainage Area: 13.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	35.0	3
7. Proportion of Omnivores	0	5
8. Proportion of Insectivores	98.0	5
9. Proportion of Pioneer Species	33.0	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	100	1
11. Proportion Simple Lithophils	11.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-148 BASIN Kankakee River

SITE: IN: Jasper Co: Wolf Creek, 2.5 mi S Wheatfield. Lat. 87 03'10". Long. 41 09'31". Drainage Area: 8.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	33.9	3
7. Proportion of Omnivores	32.1	5
8. Proportion of Insectivores	48.2	5
9. Proportion of Pioneer Species	46.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	56	1
11. Proportion Simple Lithophils	17.9	3
12. Proportion of Individuals with DELT	0	5
TOTAL		39

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-149 BASIN Iroquois River

SITE: IN: Jasper Co: Bruner ditch: 7.5 mi N Rensselaer. Lat. 87 09'16". Long. 41 02'30". Drainage Area: 4.61 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	4	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	7.7	5
7. Proportion of Omnivores	1.9	5
8. Proportion of Insectivores	84.6	5
9. Proportion of Pioneer Species	5.8	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	52	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	57.7	1
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-150 BASIN Iroquois River

SITE: IN: Jasper Co: Dexter ditch, 8.5 mi S Demotte. Lat. 87 10'49". Long. 41 04'15". Drainage Area: 9.17 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	15	5
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	15.1	5
7. Proportion of Omnivores	7.0	5
8. Proportion of Insectivores	86.0	5
9. Proportion of Pioneer Species	9.3	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	86	3
11. Proportion Simple Lithophils	2.3	1
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-151 BASIN Iroquois River

SITE: IN: Iroquois River, 6.75 mi NW Rensselaer. Lat. 87 10'50". Long. 41 01'59". Drainage Area: 35.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	22	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	6	5
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	6	5
6. Percent Abundance of Tolerant Species	28.8	3
7. Proportion of Omnivores	1.4	5
8. Proportion of Insectivores	87.1	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	7.9	5
10. Catch Per Unit Effort	139	2
11. Proportion Simple Lithophils	29.5	3
12. Proportion of Individuals with DELT	0	5
TOTAL		53

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-152 BASIN Iroquois RiverSITE: IN: Jasper Co: Iroquois River, 7 mi NW Rensselaer. Lat. 87 13'08". Long.
41 02'22". Drainage Area: 25.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	1
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	32.3	3
7. Proportion of Omnivores	25.8	1
8. Proportion of Insectivores	71.0	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	32.3	1
10. Catch Per Unit Effort	31	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
	TOTAL	16

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-153 BASIN Kankakee River

SITE: IN: Jasper Co: Tyler ditch, 1.5 mi N Demotte. Lat. 87 11'57". Long. 41 12'57". Drainage Area: 23.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	64.7	1
7. Proportion of Omnivores	56.7	1
8. Proportion of Insectivores	37.3	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1.0	1
10. Catch Per Unit Effort	102	1
11. Proportion Simple Lithophils	51	5
12. Proportion of Individuals with DELT	0	5
TOTAL		28

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-154 BASIN Kankakee River

SITE: IN: Jasper Co: Hodge ditch, 3 mi N Demotte. Lat. 87 10'39". Long. 41 13'56". Drainage Area: 57.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	15	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	7	5
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	20.8	5
7. Proportion of Omnivores	5.2	5
8. Proportion of Insectivores	71.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	18.2	5
10. Catch Per Unit Effort	77	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-155 BASIN Kankakee River

SITE: IN: Jasper Co: Hodge ditch, 4.5 mi N Wheatfield. Lat. 87 05'00". Long. 41 15'37". Drainage Area: 6.55 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	28.2	3
7. Proportion of Omnivores	28.2	1
8. Proportion of Insectivores	51.3	5
9. Proportion of Pioneer Species	35.9	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	39	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		26

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-156 BASIN Kankakee River

SITE: IN: Jasper Co: Delehanfy ditch, 3 mi NW Wheatfield. Lat. 87 06'45".
Long. 41 13'29". Drainage Area: 3.66 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	77.6	1
7. Proportion of Omnivores	67.1	1
8. Proportion of Insectivores	32.1	5
9. Proportion of Pioneer Species	5.7	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	420	5
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0.2	3
TOTAL		34

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-157 BASIN Kankakee River

SITE: IN: Jasper Co: Wolf Creek, 2 mi N Wheatfield. Lat. 87 04'42". Long. 41 13'38". Drainage Area: 29.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	21	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	4	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	8	5
6. Percent Abundance of Tolerant Species	21.5	5
7. Proportion of Omnivores	5.8	5
8. Proportion of Insectivores	74.4	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	19.8	5
10. Catch Per Unit Effort	121	3
11. Proportion Simple Lithophils	20.7	3
12. Proportion of Individuals with DELT	0	5
TOTAL		52

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-158 BASIN Iroquois River

SITE: IN: Jasper Co: Ryan ditch, 2.5 mi E Lewiston. Lat. 86 59'52". Long. 41 01'38". Drainage Area: 11.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	4
2. Number of Darter Species	2	4
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	20.0	5
7. Proportion of Omnivores	9.5	5
8. Proportion of Insectivores	88.4	5
9. Proportion of Pioneer Species	44.2	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	95	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-159 BASIN Iroquois River

SITE: IN: Benton Co: Leuck ditch, 7 mi SW Fowler. Lat. 87 27'14". Long. 40 31'02". Drainage Area: 8.72 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	11	3
2. Number of Darter Species	2	4
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	22.6	5
7. Proportion of Omnivores	14.5	5
8. Proportion of Insectivores	72.6	5
9. Proportion of Pioneer Species	38.7	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	62	1
11. Proportion Simple Lithophils	54.8	5
12. Proportion of Individuals with DELT	0	5
TOTAL		41

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-160 BASIN Iroquois River

SITE: IN: Benton Co: Leuck ditch, 0.5 mi NE Ambia. Lat. 87 30'36". Long. 40 30'02". Drainage Area: 28.1 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	20.0	5
7. Proportion of Omnivores	10.6	5
8. Proportion of Insectivores	64.7	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.5	3
10. Catch Per Unit Effort	85	1
11. Proportion Simple Lithophils	3.5	1
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-161 BASIN Iroquois River

SITE: IN: Benton Co: Finigan ditch, 10 mi W Fowler. Lat. 87 30'35". Long. 40 36'21". Drainage Area: 8.69 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	6	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	35.7	3
7. Proportion of Omnivores	32.5	3
8. Proportion of Insectivores	57.8	5
9. Proportion of Pioneer Species	40.3	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	154	5
11. Proportion Simple Lithophils	39.6	5
12. Proportion of Individuals with DELT	0	1
TOTAL		40

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-162 BASIN Iroquois River

SITE: IN: Benton Co: Mud Creek, 2 mi E Free. Lat. 87 25'30". Long. 40 37'33".
Drainage Area: 25.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	3
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	3	3
6. Percent Abundance of Tolerant Species	14.9	5
7. Proportion of Omnivores	7.8	5
8. Proportion of Insectivores	51.6	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0.3	3
10. Catch Per Unit Effort	370	5
11. Proportion Simple Lithophils	23.2	3
12. Proportion of Individuals with DELT	0	5
TOTAL		44

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-163 BASIN Iroquois River

SITE: IN: Benton Co: Mud Creek, 4.5 mi SW Earl Park. Lat. 87 29'05". Long. 40 38'43". Drainage Area: 38.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	21	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	5
4. Number of Minnow Species	-	-
Number of Sucker Species	5	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	10	5
6. Percent Abundance of Tolerant Species	27.0	3
7. Proportion of Omnivores	21.0	3
8. Proportion of Insectivores	70.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.0	3
10. Catch Per Unit Effort	100	2
11. Proportion Simple Lithophils	47.0	5
12. Proportion of Individuals with DELT	0	5
TOTAL		47

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-164 BASIN Iroquois River

SITE: IN: Benton Co: Sugar Creek, 4 mi SW Earl Park. Lat. 87 29'09". Long. 40 39'39". Drainage Area: 42.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	18	5
2. Number of Darter Species	4	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	3
Number of Salmonid Species	-	-
5. Number of Sensitive Species	7	5
6. Percent Abundance of Tolerant Species	9.8	5
7. Proportion of Omnivores	1.0	5
8. Proportion of Insectivores	60.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.2	3
10. Catch Per Unit Effort	418	5
11. Proportion Simple Lithophils	35.4	5
12. Proportion of Individuals with DELT	0	5
	TOTAL	54

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-165 BASIN Iroquois River

SITE: IN: Benton Co: Bonham ditch, 4 mi NW Earl Park. Lat. 87 29'29". Long. 40 43'27". Drainage Area: 3.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	4	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	62.4	1
7. Proportion of Omnivores	3.2	5
8. Proportion of Insectivores	32.3	4
9. Proportion of Pioneer Species	94.6	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	93	3
11. Proportion Simple Lithophils	4.3	1
12. Proportion of Individuals with DELT	0	5
TOTAL		33

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-166 BASIN Iroquois River

SITE: IN: Benton Co: Sugar Creek, 4 mi E Earl Park. Lat 87 19'37" Long. 40 41'38". Drainage Area: 22.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	19	5
2. Number of Darter Species	2	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	-	-
Number of Sucker Species	3	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	10.3	5
7. Proportion of Omnivores	5.7	5
8. Proportion of Insectivores	83.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	8.8	5
10. Catch Per Unit Effort	194	3
11. Proportion Simple Lithophils	41.2	5
12. Proportion of Individuals with DELT	0	5
TOTAL		56

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-167 BASIN Iroquois River

SITE: IN: Benton Co: Sugar Creek, 0.5 mi N Earl Park. Lat. 87 25'11". Long. 40 41'56". Drainage Area: 31.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	20	5
2. Number of Darter Species	4	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	2	5
Number of Salmonid Species	-	-
5. Number of Sensitive Species	9	5
6. Percent Abundance of Tolerant Species	8.7	5
7. Proportion of Omnivores	0	5
8. Proportion of Insectivores	37.9	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	5.8	5
10. Catch Per Unit Effort	346	5
11. Proportion Simple Lithophils	12.4	1
12. Proportion of Individuals with DELT	0	5
TOTAL		52

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-169 BASIN Iroquois River

SITE: IN: Benton Co: Carpenter Creek, 5 mi S Remington. Lat. 87 10'23". Long. 40 42'47". Drainage Area: 12.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	4
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	5	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	43.3	3
7. Proportion of Omnivores	20.3	5
8. Proportion of Insectivores	70.6	5
9. Proportion of Pioneer Species	29.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	187	3
11. Proportion Simple Lithophils	43.3	5
12. Proportion of Individuals with DELT	0	5
TOTAL		42

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-170 BASIN Iroquois River

SITE: IN: Jasper Co: Curtis Creek, 5.5 mi W Rensselaer. Lat. 87 15'32". Long. 41 56'26". Drainage Area: 18.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	18	5
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	8	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	6	5
6. Percent Abundance of Tolerant Species	21.0	5
7. Proportion of Omnivores	16.9	5
8. Proportion of Insectivores	66.2	5
9. Proportion of Pioneer Species	20.0	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	195	3
11. Proportion Simple Lithophils	27.7	3
12. Proportion of Individuals with DELT	0	5
TOTAL		52

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-171 BASIN Iroquois River

SITE: IN: Jasper Co: Moffitt ditch, 5.5 mi S Demotte. Lat. 87 15'21". Long. 41 06'03". Drainage Area: 15.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	4	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	12.1	5
7. Proportion of Omnivores	5.6	5
8. Proportion of Insectivores	87.9	5
9. Proportion of Pioneer Species	79.0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	124	3
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		34

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-172 BASIN Iroquois River

SITE: IN: Newton Co: Hickory Branch, 1.67 mi NE Brook. Lat. 87 19'58". Long.
40 53'14". Drainage Area: 9.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	17	5
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	7	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	61.9	1
7. Proportion of Omnivores	25.2	3
8. Proportion of Insectivores	70.5	5
9. Proportion of Pioneer Species	55.3	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	139	3
11. Proportion Simple Lithophils	12.9	1
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-173 BASIN Iroquois RiverSITE: IN: Newton Co: Curtis Creek, 7 mi NW Rensselaer. Lat. 87 17'43". Long.
40 59'55". Drainage Area: 12.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	4
2. Number of Darter Species	3	5
3. Proportion of Headwater Species	0	1
Number of Sunfish Species	-	-
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	24.2	5
7. Proportion of Omnivores	3.0	5
8. Proportion of Insectivores	75.8	5
9. Proportion of Pioneer Species	42.4	3
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	33	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
	TOTAL	37

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-174 BASIN Lake Michigan

SITE: IN: Lake Co: East Branch Grand Calumet River, Gary. Lat. unknown. Long. unknown. Drainage Area 8.84 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	4	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	82.8	1
7. Proportion of Omnivores	62.1	1
8. Proportion of Insectivores	27.6	3
9. Proportion of Pioneer Species	13.8	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	29	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	3.4	0
TOTAL		24

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-175 BASIN Lake MichiganSITE: IN: Lake Co: East Branch Grand Calumet River, Gary. Lat. unknown. Long.
unknown. Drainage Area 6.43 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	0	0
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	4	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	96.5	1
7. Proportion of Omnivores	11.6	5
8. Proportion of Insectivores	76.7	5
9. Proportion of Pioneer Species	12.8	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	86	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	3.48	1
TOTAL		32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-176 BASIN Lake Michigan

SITE: IN: Lake Co: Indiana Harbor Canal, East Chicago. Lat. unknown. Long.
unknown. Drainage Area 24.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	4	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	100	1
7. Proportion of Omnivores	76.8	1
8. Proportion of Insectivores	23.2	1
9. Proportion of Pioneer Species	10.7	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	56	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	12.5	1
TOTAL		16

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-177 BASIN Lake Michigan

SITE: IN: Lake Co: Niles ditch, 3 mi E Crown Point. Lat. 87 17'52". Long. 41 24'46". Drainage Area: 7.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	1	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	100	1
7. Proportion of Omnivores	100	1
8. Proportion of Insectivores	0	1
9. Proportion of Pioneer Species	0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	3	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-178 BASIN Lake Michigan

SITE: IN: Lake Co: Deer Creek, 1 mi SE Merrillville. Lat. 87 16'12". Long. 41 26'31". Drainage Area: 6.08 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	3	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	100	1
7. Proportion of Omnivores	31.8	3
8. Proportion of Insectivores	4.5	1
9. Proportion of Pioneer Species	86.4	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	22	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		21

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-179 BASIN Lake Michigan

SITE: IN: Lake Co: Main Beaver Dam ditch, 1.5 mi E Crown Point. Lat. 87
20'08". Long. 41 25'41". Drainage Area: 18.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	98.9	1
7. Proportion of Omnivores	38.5	2
8. Proportion of Insectivores	40.6	3
9. Proportion of Pioneer Species	94.8	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	96	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		25

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-180 BASIN Lake Michigan

SITE: IN: Lake Co: Main Beaver Dam ditch, 1.25 mi N Crown Point. Lat. 87
21'54". Long. 41 26'18". Drainage Area: 17.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	2
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	2	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	95.2	1
7. Proportion of Omnivores	9.5	1
8. Proportion of Insectivores	64.3	1
9. Proportion of Pioneer Species	64.3	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	42	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		20

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-181 BASIN Lake Michigan

SITE: IN: Lake Co: Turkey Creek, Merrillville. Lat. 86 20'10". Long. 41 30'16". Drainage Area: 34.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	93.5	1
7. Proportion of Omnivores	6.5	1
8. Proportion of Insectivores	83.9	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	9.7	1
10. Catch Per Unit Effort	31	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN Ecoregion

Site Specific Index of Biotic Integrity Scores

Site Number 90-182 BASIN Lake Michigan

SITE: IN: Lake Co: Turkey Creek, Griffith. Lat. 87 25'39". Long. 41 29'52".
Drainage Area: 4.92 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	5
4. Number of Minnow Species	1	0
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	73.9	1
7. Proportion of Omnivores	13.0	1
8. Proportion of Insectivores	69.6	1
9. Proportion of Pioneer Species	0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	23	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		18

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-183 BASIN Lake Michigan

SITE: IN: Lake Co: Dyer ditch, Dyer. Lat. 87 29'30". Long. 41 29'29". Drainage
Area: 47.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	2
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	94.6	1
7. Proportion of Omnivores	16.2	1
8. Proportion of Insectivores	83.8	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	37	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
	TOTAL	15

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-184 BASIN Lake Michigan

SITE: IN: Lake Co: Deep River, 2 mi N Merrillville. Lat. 87 13'16". Long. 41 28'36". Drainage Area: 65.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	1
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	19.4	5
7. Proportion of Omnivores	0	5
8. Proportion of Insectivores	82.2	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	129	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		31

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-185 BASIN Lake Michigan

SITE: IN: Lake Co: Deep River, 2 mi S Hobart. Lat. 87 15'31". Long. 41 30'00".
Drainage Area: 78.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	4	5
4. Number of Minnow Species	2	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	29.2	3
7. Proportion of Omnivores	4.2	1
8. Proportion of Insectivores	85.4	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.2	1
10. Catch Per Unit Effort	48	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		20

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-186 BASIN Lake Michigan

SITE: IN: Lake Co: Deep River, 2 mi N Hobart. Lat. 87 15'07". Long. 41 33'03".
Drainage Area: 141 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	2
2. Number of Darter Species	1	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	1
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	0	1
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	75.0	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	19.4	1
10. Catch Per Unit Effort	36	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		13

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-189 BASIN Kankakee River

SITE: IN: Lake Co: Little Calumet River, Gary (Cline Ave). Lat. unavailable.
Long. unavailable. Drainage Area: 15.1 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	12	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	3	3
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	21.8	5
7. Proportion of Omnivores	12.2	5
8. Proportion of Insectivores	74.5	5
9. Proportion of Pioneer Species	10.6	5
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	188	3
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		44

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-190 BASIN Lake Michigan

SITE: IN: Lake Co: Little Calumet River, Munster (Calumet Ave.). Lat.
unavailable. Long. unavailable. Drainage Area: 90 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	4
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	1	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	84.3	1
7. Proportion of Omnivores	48.2	1
8. Proportion of Insectivores	44.6	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	5.7	1
10. Catch Per Unit Effort	70	1
11. Proportion Simple Lithophils	37.1	5
12. Proportion of Individuals with DELT	5.7	1
TOTAL		23

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-191 BASIN Lake Michigan

SITE: IN: Lake Co: West Branch Grand Calumet River, East Chicago (Indianapolis Boulevard). Lat. unavailable. Long. unavailable. Drainage Area: 5.44 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	4	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	99.1	1
7. Proportion of Omnivores	88.4	1
8. Proportion of Insectivores	11.6	1
9. Proportion of Pioneer Species	83.7	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	112	3
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	4.46	1
TOTAL		21

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-192 BASIN Kankakee River

SITE: IN: Lake Co: East Branch Grand Calumet River, Cline Ave. Lat.
unavailable. Long. unavailable. Drainage Area: 15.8 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	4	5
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	100	1
7. Proportion of Omnivores	97.2	1
8. Proportion of Insectivores	0	1
9. Proportion of Pioneer Species	1.4	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	71	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	4.2	1
TOTAL		20

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-193 BASIN Lake Michigan

SITE: IN: Porter Co: Willow Creek, Portage. Lat. 41 33'28". Long. 87 11'18".
Drainage Area: 1.85 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	11	5
2. Number of Darter Species	1	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	62.5	1
7. Proportion of Omnivores	50.0	1
8. Proportion of Insectivores	11.6	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0.9	1
10. Catch Per Unit Effort	216	5
11. Proportion Simple Lithophils	4.2	1
12. Proportion of Individuals with DELT	0	5
TOTAL		30

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-194 BASIN Lake Michigan

SITE: IN: Porter Co: Damon Run, 3 mi S Chesterton. Lat. 87 05'29. Long. 41 33'52". Drainage Area: 5.75 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	53.1	1
7. Proportion of Omnivores	15.6	5
8. Proportion of Insectivores	56.3	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	12.5	2
10. Catch Per Unit Effort	32	1
11. Proportion Simple Lithophils	3.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		29

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-197 BASIN Lake Michigan

SITE: IN: Porter Co: Salt Creek, 1.5 mi E Portage. Lat. 87 08'38". Long. 41 34'48". Drainage Area: 74.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	2	5
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	65.4	1
7. Proportion of Omnivores	11.5	1
8. Proportion of Insectivores	53.8	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	19.2	1
10. Catch Per Unit Effort	26	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		20

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-199 BASIN Lake Michigan

SITE: IN: Little Calumet River, 3.75 mi S Pines, Indiana Dunes National
Lake Shore Heron Rookery. Lat. 86 57'06". Long. 41 37'38". Drainage
Area: 27.6 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	2	5
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	38.9	3
7. Proportion of Omnivores	5.6	1
8. Proportion of Insectivores	44.4	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	33.3	1
10. Catch Per Unit Effort	18	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		24

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-200 BASIN Lake Michigan

SITE: IN: Porter Co: Salt Creek, 3.25 mi SW Chesterton. Lat. 87 07'05". Long. 41 33'39". Drainage Area: 62.4 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	93.0	1
7. Proportion of Omnivores	53.5	1
8. Proportion of Insectivores	44.2	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.3	1
10. Catch Per Unit Effort	43	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		14

CENTRAL CORN BELT PLAIN Ecoregion

Site Specific Index of Biotic Integrity Scores

Site Number 90-201 BASIN Lake Michigan

SITE: IN: Porter Co: Salt Creek, 4.5 mi N South Haven. Lat. 87 07'22". Long. 41 32'09". Drainage Area: 51.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	88.0	1
7. Proportion of Omnivores	25.9	3
8. Proportion of Insectivores	90.7	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	8.3	1
10. Catch Per Unit Effort	108	1
11. Proportion Simple Lithophils	0.9	1
12. Proportion of Individuals with DELT	0	5
TOTAL		26

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-202 BASIN Lake Michigan

SITE: IN: Porter Co: Salt Creek, 4.5 mi NW Valparaiso. Lat. 87 08'29". Long. 41 29'53". Drainage Area: 36.5 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	11	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	2	5
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	79.1	1
7. Proportion of Omnivores	5.5	5
8. Proportion of Insectivores	75.8	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	16.5	3
10. Catch Per Unit Effort	91	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		34

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-203 BASIN Lake Michigan

SITE: IN: Porter Co: Salt Creek, 3 mi W Valparaiso. Lat. 87 06'51". Long. 41 28'41". Drainage Area: 24.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	5
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	85.3	1
7. Proportion of Omnivores	14.7	5
8. Proportion of Insectivores	56.8	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.2	1
10. Catch Per Unit Effort	95	1
11. Proportion Simple Lithophils	2.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		32

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-204 BASIN Lake Michigan

SITE: IN: Porter Co: Salt Creek, 1.75 mi S Valparaiso. Lat. 87 04'24". Long. 41 27'03". Drainage Area: 7.77 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	55.6	1
7. Proportion of Omnivores	55.6	1
8. Proportion of Insectivores	44.4	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	9	1
11. Proportion Simple Lithophils	11.1	1
12. Proportion of Individuals with DELT	0	1
TOTAL		16

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-205 BASIN Lake Michigan

SITE: IN: LaPorte Co: Reynold's Creek, 1.5 mi W SR 421 and US 80/90 intersection. Lat. 86 55'21". Long. 41 35'53". Drainage Area: 1.81 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	5
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	5	5
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	21.4	5
7. Proportion of Omnivores	20.0	5
8. Proportion of Insectivores	2.9	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	74.3	5
10. Catch Per Unit Effort	70	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		44

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-206 BASIN Lake Michigan

SITE: IN: La Porte Co: Little Calumet River, 8.5 mi W LaPorte. Lat. 86 54'20".
Long. 41 36'46. Drainage Area: 9.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	10	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	1	3
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	78.2	1
7. Proportion of Omnivores	12.7	5
8. Proportion of Insectivores	50.9	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	7.3	1
10. Catch Per Unit Effort	55	1
11. Proportion Simple Lithophils	3.6	1
12. Proportion of Individuals with DELT	0	5
TOTAL		34

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-207 BASIN Lake Michigan

SITE: IN: Coffee Creek, 1 mi S Chesterton. Lat. 87 02'25". Long. 41 35'36".
Drainage Area: 7.95 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	5	2
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	73.5	1
7. Proportion of Omnivores	6.1	5
8. Proportion of Insectivores	44.9	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	20.4	3
10. Catch Per Unit Effort	49	1
11. Proportion Simple Lithophils	4.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		36

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-208 BASIN Lake Michigan

SITE: IN: Porter Co: Coffee Creek, 2.25 mi S Chesterton. Lat. 87 01'40". Long. 41 34'14". Drainage Area: 5.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	27.7	3
7. Proportion of Omnivores	1.7	5
8. Proportion of Insectivores	72.9	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	177	5
11. Proportion Simple Lithophils	1.7	1
12. Proportion of Individuals with DELT	0	5
TOTAL		36

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-300 BASIN Lake Michigan

SITE: IN: Porter Co: Carver ditch, 1.75 mi S Pines. Lat. 86 57'05". Long. 41 39"15". Drainage Area: 1.92 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	1	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	100	1
7. Proportion of Omnivores	100	1
8. Proportion of Insectivores	0	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	20	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-301 BASIN Lake Michigan

SITE: IN: Porter Co: Carver ditch, 2 mi S Pines. Lat. 86 56'31". Long. 41 39" 04". Drainage Area: 2.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	2	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	94.6	1
7. Proportion of Omnivores	94.6	1
8. Proportion of Insectivores	5.4	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	56	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-302 BASIN Lake Michigan

SITE: IN: Porter Co: Kemper ditch, 3.25 mi S Pine. Lat. 86 56'31". Long. 41 37'47". Drainage Area: 7.68 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	90.9	1
7. Proportion of Omnivores	87.9	1
8. Proportion of Insectivores	9.1	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	33	1
11. Proportion Simple Lithophils	3.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		18

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-303 BASIN Lake Michigan

SITE: IN: Porter Co: Unnamed Tributary Little Calumet River, 4.25 mi S Pine.
Lat. 86 56'48". Long. 41 37'03". Drainage Area: 5.39 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	5
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	3	5
5. Number of Sensitive Species	3	5
6. Percent Abundance of Tolerant Species	66.7	1
7. Proportion of Omnivores	66.1	1
8. Proportion of Insectivores	21.1	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	12.8	3
10. Catch Per Unit Effort	180	3
11. Proportion Simple Lithophils	11.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		43

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-305 BASIN Lake Michigan

SITE: IN: Reynold's Creek, 4 mi S Pines. Lat. 86 56'32". Long. 41 37'03".
Drainage Area: 10.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	70	1
7. Proportion of Omnivores	30	1
8. Proportion of Insectivores	50	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	15	1
10. Catch Per Unit Effort	20	1
11. Proportion Simple Lithophils	20	1
12. Proportion of Individuals with DELT	0	1
TOTAL		17

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-306 BASIN Lake Michigan

SITE: IN: LaPorte Co: Reynolds Creek, 8.5 mi W LaPorte. Lat. 86 54'20". Long. 41 36'46". Drainage Area: 9.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	4
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	1	3
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	83.9	1
7. Proportion of Omnivores	17.7	5
8. Proportion of Insectivores	45.2	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.2	1
10. Catch Per Unit Effort	62	1
11. Proportion Simple Lithophils	12.9	1
12. Proportion of Individuals with DELT	0	5
TOTAL		33

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-307a BASIN Lake Michigan

SITE: IN: LaPorte Co: Reynold's Creek, 1.5 mi W SR 421 and US 80/90 intersection. Lat. 86 55'21". Long. 41 35'53". Drainage Area: 1.81 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	5
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	4	5
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	10.0	5
7. Proportion of Omnivores	8.0	1
8. Proportion of Insectivores	6.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	70.0	5
10. Catch Per Unit Effort	50	2
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		45

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-307 BASIN Lake Michigan

SITE: IN: Porter Co: Dunes Creek, 3.5 mi N Chesterton. Lat. 87 02'58". Long. 41 39'26". Drainage Area: 1.64 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	1	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	67.3	1
7. Proportion of Omnivores	13.5	3
8. Proportion of Insectivores	63.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.8	1
10. Catch Per Unit Effort	52	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		30

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-308 BASIN Lake Michigan

SITE: IN: Porter Co: Dunes Creek, 3.25 mi N Chesterton. Lat. 87 03'27". Long. 41 39'23". Drainage Area: 2.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	1	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	75.0	1
7. Proportion of Omnivores	1.0	5
8. Proportion of Insectivores	96.2	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1.9	1
10. Catch Per Unit Effort	104	3
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		34

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-309 BASIN Lake Michigan

SITE: IN: Porter Co: Dunes Creek, 3.5 mi N Chesterton. Lat. 87 03'27". Long. 41 39'38". Drainage Area: 4.14 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	20.7	5
7. Proportion of Omnivores	13.8	3
8. Proportion of Insectivores	82.8	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.4	1
10. Catch Per Unit Effort	29	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		31

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-322 BASIN Lake Michigan

SITE: IN: Porter Co: Sager Creek, 1.1 mi S Valparaiso. Lat. 87 03'27". Long. 41 27'22". Drainage Area: 2.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	21.1	5
7. Proportion of Omnivores	2.6	5
8. Proportion of Insectivores	78.9	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.6	1
10. Catch Per Unit Effort	38	1
11. Proportion Simple Lithophils	7.9	1
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-323 BASIN Lake Michigan

SITE: IN: Porter Co: Sager Creek, 1 mi S Valparaiso. Lat. 87 03'50". Long. 41 27'30". Drainage Area: 4.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	37.5	3
7. Proportion of Omnivores	4.2	1
8. Proportion of Insectivores	70.8	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.2	1
10. Catch Per Unit Effort	24	1
11. Proportion Simple Lithophils	25.0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		23

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-325 BASIN Lake Michigan

SITE: IN: Porter Co: Unnamed tributary Salt Creek, 0.5 mi E Valparaiso. Lat.
87 04'01". Long. 41 27'40". Drainage Area: 2.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	1	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	1	1
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	92.2	1
7. Proportion of Omnivores	9.8	4
8. Proportion of Insectivores	76.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.0	1
10. Catch Per Unit Effort	51	1
11. Proportion Simple Lithophils	2.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		31

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-326 BASIN Lake Michigan

SITE: IN: Lake Co: Turkey Creek, Gary. Lat. 87 21'13". Long. 41 30'26.5".
Drainage Area: 21.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	3	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	78.9	1
7. Proportion of Omnivores	78.9	1
8. Proportion of Insectivores	0	1
9. Proportion of Pioneer Species	0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	19	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-327 BASIN Lake Michigan

SITE: IN: Lake Co: Unnamed Tributary Turkey Creek, Merrillville. Lat. 87
19'25". Long. 41 30'26". Drainage Area: 4.42 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	4
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	90.8	1
7. Proportion of Omnivores	1.5	5
8. Proportion of Insectivores	96.9	5
9. Proportion of Pioneer Species	90.8	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	65	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		29

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-331 BASIN Kankakee River

SITE: IN: Lake Co: Cedar Creek, 1.5 mi S Lowell. Lat. 87 24'58". Long. 41 16'03". Drainage Area: 28.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	64.1	1
7. Proportion of Omnivores	50.0	1
8. Proportion of Insectivores	48.2	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0.5	1
10. Catch Per Unit Effort	220	3
11. Proportion Simple Lithophils	2.3	1
12. Proportion of Individuals with DELT	0	5
TOTAL		27

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-332 BASIN Kankakee River

SITE: IN: Lake Co: Cedar Creek, 3.25 mi S Lowell. Lat. 87 25'06". Long. 41 14'46". Drainage Area: 29.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	28.3	3
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	73.9	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.2	1
10. Catch Per Unit Effort	46	1
11. Proportion Simple Lithophils	2.2	1
12. Proportion of Individuals with DELT	0	1
TOTAL		17

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-333 BASIN Kankakee River

SITE: IN: Lake Co: Cedar Creek, 3.25 mi S Lowell. Lat. 87 25'06". Long. 41 14'46". Drainage Area: 29.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	31.8	3
7. Proportion of Omnivores	18.2	1
8. Proportion of Insectivores	77.3	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.5	1
10. Catch Per Unit Effort	22	1
11. Proportion Simple Lithophils	27.3	1
12. Proportion of Individuals with DELT	0	1
TOTAL		57

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-334 BASIN Lake Michigan

SITE: IN: Porter Co: Unnamed Creek, 0.25 mi E Hwy 49. Lat. unavailable. Long. Unavailable. Drainage Area: 9.24 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	2	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	100	1
7. Proportion of Omnivores	11.1	1
8. Proportion of Insectivores	0	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	18	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
	TOTAL	12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-335 BASIN Lake Michigan

SITE: IN: Porter Co: Sand Creek, 1 mi NE Chesterton. Lat. 87 01'55". Long. 41 36'45". Drainage Area: 4.99 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	2
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	71.4	1
7. Proportion of Omnivores	5.7	5
8. Proportion of Insectivores	28.6	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	35	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		27

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-301 BASIN Lake Michigan

SITE: IN: Porter Co: Carver ditch, 2 mi S Pines. Lat. 86 56'31". Long. 41 39" 04". Drainage Area: 2.9 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	2	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	94.6	1
7. Proportion of Omnivores	94.6	1
8. Proportion of Insectivores	5.4	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	56	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-302 BASIN Lake Michigan

SITE: IN: Porter Co: Kemper ditch, 3.25 mi S Pine. Lat. 86 56'31". Long. 41 37'47". Drainage Area: 7.68 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	90.9	1
7. Proportion of Omnivores	87.9	1
8. Proportion of Insectivores	9.1	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	33	1
11. Proportion Simple Lithophils	3.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		18

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-303 BASIN Lake Michigan

SITE: IN: Porter Co: Unnamed Tributary Little Calumet River, 4.25 mi S Pine.
Lat. 86 56'48". Long. 41 37'03". Drainage Area: 5.39 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	13	5
2. Number of Darter Species	2	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	3	5
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	3	5
5. Number of Sensitive Species	3	5
6. Percent Abundance of Tolerant Species	66.7	1
7. Proportion of Omnivores	66.1	1
8. Proportion of Insectivores	21.1	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	12.8	3
10. Catch Per Unit Effort	180	3
11. Proportion Simple Lithophils	11.1	1
12. Proportion of Individuals with DELT	0	5
TOTAL		43

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-305 BASIN Lake Michigan

SITE: IN: Reynold's Creek, 4 mi S Pines. Lat. 86 56'32". Long. 41 37'03".
Drainage Area: 10.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	70	1
7. Proportion of Omnivores	30	1
8. Proportion of Insectivores	50	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	15	1
10. Catch Per Unit Effort	20	1
11. Proportion Simple Lithophils	20	1
12. Proportion of Individuals with DELT	0	1
TOTAL		17

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-306 BASIN Lake Michigan

SITE: IN: LaPorte Co: Reynolds Creek, 8.5 mi W LaPorte. Lat. 86 54'20". Long. 41 36'46". Drainage Area: 9.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	4
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	1	3
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	83.9	1
7. Proportion of Omnivores	17.7	5
8. Proportion of Insectivores	45.2	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.2	1
10. Catch Per Unit Effort	62	1
11. Proportion Simple Lithophils	12.9	1
12. Proportion of Individuals with DELT	0	5
TOTAL		33

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-307 BASIN Lake Michigan

SITE: IN: Porter Co: Dunes Creek, 3.5 mi N Chesterton. Lat. 87 02'58". Long. 41 39'26". Drainage Area: 1.64 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	1	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	67.3	1
7. Proportion of Omnivores	13.5	3
8. Proportion of Insectivores	63.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.8	1
10. Catch Per Unit Effort	52	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		30

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-307a BASIN Lake Michigan

SITE: IN: LaPorte Co: Reynold's Creek, 1.5 mi W SR 421 and US 80/90
intersection. Lat. 86 55'21". Long. 41 35'53". Drainage Area: 1.81
square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	5
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	4	5
5. Number of Sensitive Species	5	5
6. Percent Abundance of Tolerant Species	10.0	5
7. Proportion of Omnivores	8.0	1
8. Proportion of Insectivores	6.0	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	70.0	5
10. Catch Per Unit Effort	50	2
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		45

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-308 BASIN Lake Michigan

SITE: IN: Porter Co: Dunes Creek, 3.25 mi N Chesterton. Lat. 87 03'27". Long. 41 39'23". Drainage Area: 2.0 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	1	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	75.0	1
7. Proportion of Omnivores	1.0	5
8. Proportion of Insectivores	96.2	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	1.9	1
10. Catch Per Unit Effort	104	3
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		34

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-309 BASIN Lake Michigan

SITE: IN: Porter Co: Dunes Creek, 3.5 mi N Chesterton. Lat. 87 03'27". Long. 41 39'38". Drainage Area: 4.14 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	3
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	20.7	5
7. Proportion of Omnivores	13.8	3
8. Proportion of Insectivores	82.8	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	3.4	1
10. Catch Per Unit Effort	29	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		31

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-322 BASIN Lake Michigan

SITE: IN: Porter Co: Sager Creek, 1.1 mi S Valparaiso. Lat. 87 03'27". Long. 41 27'22". Drainage Area: 2.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	5	5
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	21.1	5
7. Proportion of Omnivores	2.6	5
8. Proportion of Insectivores	78.9	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.6	1
10. Catch Per Unit Effort	38	1
11. Proportion Simple Lithophils	7.9	1
12. Proportion of Individuals with DELT	0	5
TOTAL		38

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-323 BASIN Lake Michigan

SITE: IN: Porter Co: Sager Creek, 1 mi S Valparaiso. Lat. 87 03'50". Long. 41 27'30". Drainage Area: 4.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	9	5
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	2	3
6. Percent Abundance of Tolerant Species	37.5	3
7. Proportion of Omnivores	4.2	1
8. Proportion of Insectivores	70.8	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.2	1
10. Catch Per Unit Effort	24	1
11. Proportion Simple Lithophils	25.0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		23

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-325 BASIN Lake Michigan

SITE: IN: Porter Co: Unnamed tributary Salt Creek, 0.5 mi E Valparaiso. Lat.
87 04'01". Long. 41 27'40". Drainage Area: 2.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	6	3
2. Number of Darter Species	1	5
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	3
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	1	1
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	92.2	1
7. Proportion of Omnivores	9.8	4
8. Proportion of Insectivores	76.5	5
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.0	1
10. Catch Per Unit Effort	51	1
11. Proportion Simple Lithophils	2.0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		31

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-326 BASIN Lake Michigan

SITE: IN: Lake Co: Turkey Creek, Gary. Lat. 87 21'13". Long. 41 30'26.5".
Drainage Area: 21.2 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	3	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	0	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	78.9	1
7. Proportion of Omnivores	78.9	1
8. Proportion of Insectivores	0	1
9. Proportion of Pioneer Species	0	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	19	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-327 BASIN Lake Michigan

SITE: IN: Lake Co: Unnamed Tributary Turkey Creek, Merrillville. Lat. 87
19'25". Long. 41 30'26". Drainage Area: 4.42 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	5	3
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	4
4. Number of Minnow Species	1	1
Number of Sucker Species	-	-
Number of Salmonid Species	-	-
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	90.8	1
7. Proportion of Omnivores	1.5	5
8. Proportion of Insectivores	96.9	5
9. Proportion of Pioneer Species	90.8	1
Proportion of Carnivores	-	-
10. Catch Per Unit Effort	65	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		29

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-331 BASIN Kankakee River

SITE: IN: Lake Co: Cedar Creek, 1.5 mi S Lowell. Lat. 87 24'58". Long. 41 16'03". Drainage Area: 28.3 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	14	5
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	2	3
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	64.1	1
7. Proportion of Omnivores	50.0	1
8. Proportion of Insectivores	48.2	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0.5	1
10. Catch Per Unit Effort	220	3
11. Proportion Simple Lithophils	2.3	1
12. Proportion of Individuals with DELT	0	5
TOTAL		27

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-332 BASIN Kankakee River

SITE: IN: Lake Co: Cedar Creek, 3.25 mi S Lowell. Lat. 87 25'06". Long. 41 14'46". Drainage Area: 29.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	7	3
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	1	1
6. Percent Abundance of Tolerant Species	28.3	3
7. Proportion of Omnivores	0	1
8. Proportion of Insectivores	73.9	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	2.2	1
10. Catch Per Unit Effort	46	1
11. Proportion Simple Lithophils	2.2	1
12. Proportion of Individuals with DELT	0	1
TOTAL		17

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-333 BASIN Kankakee River

SITE: IN: Lake Co: Cedar Creek, 3.25 mi S Lowell. Lat. 87 25'06". Long. 41 14'46". Drainage Area: 29.7 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	8	3
2. Number of Darter Species	1	2
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	1
4. Number of Minnow Species	-	-
Number of Sucker Species	0	1
Number of Salmonid Species	-	-
5. Number of Sensitive Species	2	1
6. Percent Abundance of Tolerant Species	31.8	3
7. Proportion of Omnivores	18.2	1
8. Proportion of Insectivores	77.3	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	4.5	1
10. Catch Per Unit Effort	22	1
11. Proportion Simple Lithophils	27.3	1
12. Proportion of Individuals with DELT	0	1
TOTAL		57

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-334 BASIN Lake Michigan

SITE: IN: Porter Co: Unnamed Creek, 0.25 mi E Hwy 49. Lat. unavailable. Long. Unavailable. Drainage Area: 9.24 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	2	1
2. Number of Darter Species	0	1
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	0	1
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	100	1
7. Proportion of Omnivores	11.1	1
8. Proportion of Insectivores	0	1
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	18	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	1
TOTAL		12

CENTRAL CORN BELT PLAIN ECOREGION

SITE SPECIFIC INDEX OF BIOTIC INTEGRITY SCORES

Site Number 90-335 BASIN Lake Michigan

SITE: IN: Porter Co: Sand Creek, 1 mi NE Chesterton. Lat. 87 01'55". Long. 41 36'45". Drainage Area: 4.99 square miles.

<u>INDEX OF BIOTIC INTEGRITY METRICS</u>	<u>Actual Observation</u>	<u>IBI Score</u>
1. Total Number of Fish Species	4	2
2. Number of Darter Species	1	3
3. Proportion of Headwater Species	-	-
Number of Sunfish Species	1	2
4. Number of Minnow Species	-	-
Number of Sucker Species	-	-
Number of Salmonid Species	0	1
5. Number of Sensitive Species	0	1
6. Percent Abundance of Tolerant Species	71.4	1
7. Proportion of Omnivores	5.7	5
8. Proportion of Insectivores	28.6	3
9. Proportion of Pioneer Species	-	-
Proportion of Carnivores	0	1
10. Catch Per Unit Effort	35	1
11. Proportion Simple Lithophils	0	1
12. Proportion of Individuals with DELT	0	5
TOTAL		27

Appendix E. Fish nomenclature changes for the species of fish occurring within the political boundaries of Indiana.

	Previous Nomenclature
Petromyzontiformes-lampreys	
Petromyzontidae - lamprey	
<i>Lampetra appendix</i> (DeKay), American brook lamprey	<i>Lampetra lamottei</i>
Lepisteiformes - gars	
Lepisosteidae - gars	
<i>Atractosteus spatula</i> (Lacepede), alligator gar	<i>Lepisosteus spatula</i>
Salmoniformes - trout, salmon, whitefish	
Salmonidae - salmon and whitefish	
<i>Oncorhynchus mykiss</i> Walbaum, rainbow trout	<i>Salmo gairdneri</i>
Cypriniformes - carps and minnows	
Cyprinidae - carps and minnows	
<i>Campostoma oligolepis</i> Hubbs and Greene, largescale stoneroller	previously considered <i>Campostoma anomalum pullum</i>
<i>Cyprinella lutrensis</i> (Baird and Girard), red shiner	<i>Notropis lutrensis</i>
<i>C. spiloptera</i> Cope, spotfin shiner	<i>Notropis spilopterus</i>
<i>C. whipplei</i> (Girard), steelcolor shiner	<i>Notropis whipplei</i>
<i>Erimystax dissimilis</i> Kirtland, streamline chub	<i>Hybopsis dissimilis</i>
<i>E. x-punctata</i> Hubbs and Crowe, gravel chub	<i>Hybopsis x-punctata</i>
<i>Extrarius aestavalis</i> Girard, speckled chub	<i>Hybopsis aestavalis</i>
<i>Hybopsis amnis</i> Hubbs and Greene, pallid shiner	<i>Notropis amnis</i>
<i>Luxilus chrysocephalus</i> (Rafinesque), striped shiner	<i>Notropis chrysocephalus</i>
<i>L. cornutus</i> (Mitchell), common shiner	<i>Notropis cornutus</i>
<i>Lythrurus ardens</i> (Cope), rosefin shiner	<i>Notropis ardens</i>
<i>L. fumeus</i> Evermann, ribbon shiner	<i>Notropis fumeus</i>
<i>L. umbratilis</i> (Girard), redfin shiner	<i>Notropis umbratilis</i>
<i>Macrhybopsis storeriana</i> (Kirtland), silver chub	<i>Hybopsis storeriana</i>
<i>Notropis ludibundus</i> Cope, sand shiner	<i>Notropis stramineus</i>
<i>Opsopoeodus emiliae</i> Hay, pugnose minnow	<i>Notropis emiliae</i>
Siluriformes - bullhead and catfish	
Ictaluridae - bullhead and catfish	
<i>Ameiurus catus</i> (Linnaeus), white catfish	<i>Ictalurus catus</i>
<i>A. melas</i> (Rafinesque), black bullhead	<i>Ictalurus melas</i>
<i>A. natalis</i> (Lesueur), yellow bullhead	<i>Ictalurus natalis</i>
<i>A. nebulosus</i> (Lesueur), brown bullhead	<i>Ictalurus nebulosus</i>
Atheriniformes - topminnows, silversides	
Fundulidae - topminnows	previously Cyprinodontidae
Perciformes - basses, sunfish, perch, darters	
Moronidae - temperate basses	previously Percichthyidae
<i>Morone chrysops</i> (Rafinesque), white bass	
<i>M. mississippiensis</i> Jordan and Eigermann, yellow bass	
<i>M. saxatilis</i> (Walbaum), striped bass	
Elassomatidae - pygmy sunfish	previously Centrarchidae
<i>Elassoma zonatum</i> Jordan, banded pygmy sunfish	
Percidae - perches and darters	
<i>Crystallaria asprella</i> Jordan, crystal darter	<i>Ammocrypta asprella</i>

1984-1985
1986-1987
1988-1989
1990-1991
1992-1993
1994-1995
1996-1997
1998-1999
2000-2001
2002-2003
2004-2005
2006-2007
2008-2009
2010-2011
2012-2013
2014-2015
2016-2017
2018-2019
2020-2021
2022-2023
2024-2025