

**NON-EXELON**

ER REFERENCES TO BE DOCKETED

ATTACHMENT 4

**From:** [Moore, Phil](#)  
**To:** [Patterson, Karen](#)  
**Subject:** FW: Request: Illinois River reports  
**Date:** Tuesday, November 12, 2013 12:01:22 PM  
**Attachments:** [PhilMooreDataRequest 6 24 13.xlsx](#)

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As discussed

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**From:** Mark W. Fritts [<mailto:mwfritts@illinois.edu>]  
**Sent:** Monday, June 24, 2013 3:13 PM  
**To:** Moore, Phil  
**Subject:** RE: Request: Illinois River reports

Phil,

I have attached a Microsoft Excel worksheet containing CPUE<sub>N</sub> data for three sites in the Marseilles Reach during 1993-2012: Ballards Island, Johnson Island, and Waupecan Island. Each of these sites were sampled once a year using a boat-mounted three-phase AC electrofishing apparatus. In most years, these sites were sampled for exactly one hour, however there were a few years when our biologists were forced to cut their electrofishing runs short (45-60 min). These sampling sites are located in side-channel habitats, directly adjacent to the main channel of the Illinois River. As we discussed in our phone conversation, these AC electrofishing data represent our longest-term data sets. We started the pulsed DC electrofishing survey in 2009 and we have collected fishes at randomly selected sites in the Marseilles Reach. But I'm not sure that any robust temporal comparisons can be made with these more recently acquired data.

I hope these data are what you are after. If not, please let me know and I'll do my best to get you the correct information as quickly as possible. Have a nice afternoon.

Regards,

Mark Fritts

**Mark W. Fritts II**

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**From:** Moore, Phil [mailto:Phil.Moore@tetrattech.com]  
**Sent:** Monday, June 24, 2013 10:25 AM  
**To:** [mwfritts@illinois.edu](mailto:mwfritts@illinois.edu)  
**Cc:** [aprilb@illinois.edu](mailto:aprilb@illinois.edu)  
**Subject:** FW: Request: Illinois River reports

Thanks for taking the time to explain all this stuff, Mark.

Thanks, April, for your assistance as well.

Regards,

Phil Moore

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**From:** April M. Burgett [mailto:[aprilb@illinois.edu](mailto:aprilb@illinois.edu)]  
**Sent:** Monday, June 24, 2013 11:01 AM  
**To:** Moore, Phil; Mark Fritts  
**Subject:** Request: Illinois River reports

Hi Phil,

I cannot confirm this, but I will pass this email on via cc to Mark.Fritts in hopes that he can shed some light on the details and answer your questions.

Thanks! April

Mark, could you please address the list of questions that Mr. Moore has regarding the LTEF project and reports? Thank you! April

On 6/24/2013 9:37 AM, Moore, Phil wrote:

Ms Burgett,

This is all very confusing to a non-Illinoisan, in part because the numbering of the reports is confusing {project report R-23 is INHS Technical Report 2012(22)}, and in part because the **Long-term Illinois River Fish Population Monitoring Program Reports** apparently became the **Long-term Illinois, Mississippi, Ohio, and Wabash Rivers Fish Population Monitoring Program Reports** in 2011.

The 2012 Long-term Illinois, Mississippi, Ohio, and Wabash Rivers Fish Population Monitoring Program Report (for surveys conducted in 2011/2011 data) is on the web. It is attached.

So I apparently have the latest report in the series (and reports with data thru 2008), and am missing reports with 2009 and 2010 data?

Could you please confirm that the Illinois River series of fish population monitoring

reports became the "amalgamated" report (four river systems) in 2011?

I'm afraid I'm missing something and will be flogged by bosses for doing so.

Thanks in advance for your assistance,

Phil Moore

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**From:** April M. Burgett [<mailto:aprilb@illinois.edu>]  
**Sent:** Monday, June 24, 2013 10:06 AM  
**To:** Moore, Phil  
**Subject:** Fwd: Re: Request: Illinois River reports

Mr. Moore,

Please see the message below regarding the most current reports you were looking for. Looks like you may have to wait until the INHS releases them and makes them available due to a contractual obligation to let authors publish the first year or so.

Thank you for your interest in our project!  
April

----- Original Message -----

**Subject:** Re: Request: Illinois River reports  
**Date:** Fri, 14 Jun 2013 08:04:58 -0500  
**From:** Nerissa Michaels <[nnmichaels@gmail.com](mailto:nnmichaels@gmail.com)>  
**To:** Burgett, April M <[aprilb@illinois.edu](mailto:aprilb@illinois.edu)>, [mwfritts@illinois.edu](mailto:mwfritts@illinois.edu)  
<[mwfritts@illinois.edu](mailto:mwfritts@illinois.edu)>

April,

I don't think he can download them because there is a 2-3 year hold on technical reports after they are submitted as to allow the authors first dibs to publish. I am forwarding this to Mark Fritts, LTEF coordinator on the project, so he can keep track of requests for next year's report.

Thanks! Nerissa

Sent from my iPhone

On Jun 13, 2013, at 3:34 PM, "Burgett, April M" <[aprilb@illinois.edu](mailto:aprilb@illinois.edu)> wrote:

Hi Nerissa!

I was hoping you could tell me if you have a pdf that could be shared of the reports Mr. Moore lists in the email below that he is wanting for LTEF from 2010 and 2011? I know we probably have the paper copies here that I could mail him, but he wants electronic versions. If you have them, that would be awesome.

Thanks!!! April

----- Original Message -----

**Subject:** Illinois River reports

**Date:** Thu, 13 Jun 2013 20:01:03 +0000

**From:** Moore, Phil <[Phil.Moore@tetrattech.com](mailto:Phil.Moore@tetrattech.com)>

**To:** [aprilb@illinois.edu](mailto:aprilb@illinois.edu) <[aprilb@illinois.edu](mailto:aprilb@illinois.edu)>

Dear Ms Burgett,

I have been trying today to download the various annual and summary reports of The Long-term Illinois River Fish Population Monitoring Program. I have been able to locate and download reports dating back to the early 1990s from various websites, chiefly the IDEALS and the Illinois Natural History Survey websites.

I have been unable to find two of the reports in the series:

MCClelland, MA and GG Sass. 2010. The long-term Illinois River fish population monitoring program. Project F-101-R-21 Annual Report to the Illinois Dept of Natural Resources. Illinois Natural History Survey Technical Report 2010 (28). University of Illinois, Institute of Natural Resource Sustainability, Illinois Natl History

Survey, Champaign. 80 pp.

*and*

Michaels, NN, et al. 2011. The long-term Illinois, Mississippi, Ohio, and Wabash River fish population monitoring program. Project F-101-R-22 Annual Report to the Illinois Dept of Natural Resources. Prairie Research Institute Technical Report 23. Illinois Natural History Survey. Champaign. 110 pp.

Could you please direct me to downloadable versions of these reports or explain how I might purchase them?

Thanks in advance,

Phil Moore

***Philip Moore | Project Manager/Consulting Biologist***

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Marseilles Reach-Ballards Island (RM 248.0)  
 Three-phase AC electrofishing CPUE data 1993-2012

FAMILY	SPECNAME	1993	1994	1995	1996	1997
Catastomidae	Bigmouth buffalo				1.33	
Centrarchidae	Bluegill x Green sunfish					1.33
Centrarchidae	Black crappie					1.33
Centrarchidae	Bluegill	7	17	78	5.33	12
Cyprinidae	Bluntnose minnow	5	37	11		12
Fundulidae	Blackstripe topminnow					
Centrarchidae	Bluegill x Orange spotted sunfish					
Atherinidae	Brook silverside					
Cyprinidae	Bullhead minnow			98		20
Cyprinidae	Common carp	8	6	15	5.33	6.67
Ictaluridae	Channel catfish	1	1	1	1.33	
Cyprinidae	Common carp x Goldfish		2		1.33	
Cyprinidae	Central stoneroller					
Cyprinidae	Emerald shiner	8	44	27		58.67
Ictaluridae	Flathead catfish					
Sciaenidae	Freshwater drum	6	3		1.33	4
Cyprinidae	Goldfish					
Catastomidae	Golden redhorse					1.33
Cyprinidae	Golden shiner			2		
Esocidae	Grass pickerel					
Centrarchidae	Green sunfish	2	2	4		5.33
Clupeidae	Gizzard shad	60	28	169	130.67	60
Percidae	Johnny darter					
Centrarchidae	Largemouth bass	8	13	12	9.33	4
Percidae	Logperch					
Centrarchidae	Longear sunfish					
Centrarchidae	Orange spotted sunfish			1	2.67	
Centrarchidae	Pumpkinseed					
Cyprinidae	Red shiner			40		50.67
Centrarchidae	Rock bass					
Gobiidae	Round Goby					
Centrarchidae	Redear sunfish			1		
Catastomidae	River carpsucker	1		1		1.33
Cyprinidae	River shiner					
Catastomidae	Smallmouth buffalo	2				5.33
Cyprinidae	Sand shiner	4	6			
Cyprinidae	Spotfin shiner					
Percidae	Slenderhead darter		1			
Catastomidae	Shorthead redhorse				1.33	
Clupeidae	Skipjack herring					
Centrarchidae	Smallmouth bass		3	2		
Cyprinidae	Spottail shiner	1		2	8	1.33
Cyprinidae	Suckermouth minnow			2		

Marseilles Reach-Ballards Island (RM 248.0)  
 Three-phase AC electrofishing CPUE data 1993-2012

<b>FAMILY</b>	<b>SPECNAME</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>
Cyprinidae	Silver chub					
Cyprinidae	Silverband shiner					
Clupeidae	Threadfin shad				1.33	
Ictaluridae	Tadpole madtom					1.33
Catastomidae	Quillback					
Moronidae	White bass	2	1			
Centrarchidae	White crappie			1	1.33	1.33
Ictaluridae	Yellow bullhead	3		1		
Moronidae	Yellow bass					



Marseilles Reach-Ballards Island (RM 248.0)  
 Three-phase AC electrofishing CPUE data 1993-2012

FAMILY	SPECNAME	Number individuals captured per				
		1998	1999	2000	2001	2002
Catastomidae	Bigmouth buffalo					
Centrarchidae	Bluegill x Green sunfish			5	1	3
Centrarchidae	Black crappie	3		1		1
Centrarchidae	Bluegill	1	19	17	85	50
Cyprinidae	Bluntnose minnow	13		9	16	
Fundulidae	Blackstripe topminnow					
Centrarchidae	Bluegill x Orange spotted sunfish	2				
Atherinidae	Brook silverside					
Cyprinidae	Bullhead minnow		7	9	28	81
Cyprinidae	Common carp	4	2	3		4
Ictaluridae	Channel catfish					2
Cyprinidae	Common carp x Goldfish			1		
Cyprinidae	Central stoneroller					
Cyprinidae	Emerald shiner	41	2	5	98	200
Ictaluridae	Flathead catfish					
Sciaenidae	Freshwater drum	1	4	1		1
Cyprinidae	Goldfish					
Catastomidae	Golden redhorse	1		1		
Cyprinidae	Golden shiner					
Esocidae	Grass pickerel		1			
Centrarchidae	Green sunfish	6	1	8	10	11
Clupeidae	Gizzard shad	12	20	34	32	20
Percidae	Johnny darter					
Centrarchidae	Largemouth bass	8	4	10	8	7
Percidae	Logperch					
Centrarchidae	Longear sunfish				4	2
Centrarchidae	Orange spotted sunfish		3	1	3	9
Centrarchidae	Pumpkinseed	1				
Cyprinidae	Red shiner			8	14	
Centrarchidae	Rock bass					
Gobiidae	Round Goby					
Centrarchidae	Redear sunfish				1	
Catastomidae	River carpsucker			1	1	
Cyprinidae	River shiner		1			
Catastomidae	Smallmouth buffalo	5	2	11	3	
Cyprinidae	Sand shiner				1	
Cyprinidae	Spotfin shiner	6				23
Percidae	Slenderhead darter					
Catastomidae	Shorthead redhorse		1			
Clupeidae	Skipjack herring				1	
Centrarchidae	Smallmouth bass				1	5
Cyprinidae	Spottail shiner	1	2		6	12
Cyprinidae	Suckermouth minnow					

Marseilles Reach-Ballards Island (RM 248.0)  
 Three-phase AC electrofishing CPUE data 1993-2012

FAMILY	SPECNAME	Number individuals captured per				
		1998	1999	2000	2001	2002
Cyprinidae	Silver chub					
Cyprinidae	Silverband shiner		2			
Clupeidae	Threadfin shad					
Ictaluridae	Tadpole madtom					
Catastomidae	Quillback					
Moronidae	White bass	2				
Centrarchidae	White crappie					
Ictaluridae	Yellow bullhead					
Moronidae	Yellow bass					

Marseilles Reach-Ballards Island (RM 248.0)  
 Three-phase AC electrofishing CPUE data 1993-2012

FAMILY	SPECNAME	1hr AC electrofishing				
		2003	2004	2005	2006	2007
Catastomidae	Bigmouth buffalo					
Centrarchidae	Bluegill x Green sunfish			6	2	
Centrarchidae	Black crappie	1	1		5	1
Centrarchidae	Bluegill	27	8	122	60	36
Cyprinidae	Bluntnose minnow	1	62	58	26	38
Fundulidae	Blackstripe topminnow		1	3	3	1
Centrarchidae	Bluegill x Orange spotted sunfish					
Atherinidae	Brook silverside					
Cyprinidae	Bullhead minnow	38		23	23	11
Cyprinidae	Common carp	2	3	6	3	4
Ictaluridae	Channel catfish	2	1		2	4
Cyprinidae	Common carp x Goldfish					
Cyprinidae	Central stoneroller			1		
Cyprinidae	Emerald shiner		3	31	44	16
Ictaluridae	Flathead catfish					
Sciaenidae	Freshwater drum		1			1
Cyprinidae	Goldfish			1		1
Catastomidae	Golden redhorse					
Cyprinidae	Golden shiner					
Esocidae	Grass pickerel		1		1	
Centrarchidae	Green sunfish	7	2	10	8	3
Clupeidae	Gizzard shad	13	3	149	13	10
Percidae	Johnny darter					
Centrarchidae	Largemouth bass	5	10	26	7	14
Percidae	Logperch					
Centrarchidae	Longear sunfish			1		
Centrarchidae	Orange spotted sunfish		2		1	2
Centrarchidae	Pumpkinseed					3
Cyprinidae	Red shiner			7		
Centrarchidae	Rock bass					1
Gobiidae	Round Goby		2			1
Centrarchidae	Redear sunfish					
Catastomidae	River carpsucker			1		2
Cyprinidae	River shiner					
Catastomidae	Smallmouth buffalo	1		3	1	
Cyprinidae	Sand shiner					
Cyprinidae	Spotfin shiner		3	34	46	34
Percidae	Slenderhead darter					
Catastomidae	Shorthead redhorse					1
Clupeidae	Skipjack herring			1		
Centrarchidae	Smallmouth bass	3	1	3		2
Cyprinidae	Spottail shiner	8	2	5	1	5
Cyprinidae	Suckermouth minnow					

Marseilles Reach-Ballards Island (RM 248.0)  
 Three-phase AC electrofishing CPUE data 1993-2012

FAMILY	SPECNAME	1hr AC electrofishing				
		2003	2004	2005	2006	2007
Cyprinidae	Silver chub					
Cyprinidae	Silverband shiner					
Clupeidae	Threadfin shad				1	
Ictaluridae	Tadpole madtom					
Catastomidae	Quillback					
Moronidae	White bass				1	
Centrarchidae	White crappie	4		1		
Ictaluridae	Yellow bullhead					
Moronidae	Yellow bass		1			

Marseilles Reach-Ballards Island (RM 248.0)  
 Three-phase AC electrofishing CPUE data 1993-2012

FAMILY	SPECNAME	2008	2009	2010	2011	2012
Catastomidae	Bigmouth buffalo					1
Centrarchidae	Bluegill x Green sunfish				4	
Centrarchidae	Black crappie	1	4	2.4		1
Centrarchidae	Bluegill	30	23	20.4	46	109
Cyprinidae	Bluntnose minnow	56	16	43.2	79	74
Fundulidae	Blackstripe topminnow	3				
Centrarchidae	Bluegill x Orange spotted sunfish					
Atherinidae	Brook silverside				1	
Cyprinidae	Bullhead minnow	20	22	3.6		30
Cyprinidae	Common carp	5		3.6		
Ictaluridae	Channel catfish	3	4			1
Cyprinidae	Common carp x Goldfish					
Cyprinidae	Central stoneroller	3		1.2		2
Cyprinidae	Emerald shiner	20	4	14.4	15	5
Ictaluridae	Flathead catfish			1.2		
Sciaenidae	Freshwater drum		1		2	3
Cyprinidae	Goldfish					
Catastomidae	Golden redhorse		4		1	1
Cyprinidae	Golden shiner					
Esocidae	Grass pickerel	1		1.2		
Centrarchidae	Green sunfish	2	2	10.8	17	28
Clupeidae	Gizzard shad	43	28	13.2	38	40
Percidae	Johnny darter		1			
Centrarchidae	Largemouth bass	21	12	16.8	19	9
Percidae	Logperch	1				
Centrarchidae	Longear sunfish	3			4	2
Centrarchidae	Orange spotted sunfish	2			1	
Centrarchidae	Pumpkinseed	3	8	2.4		
Cyprinidae	Red shiner					
Centrarchidae	Rock bass					
Gobiidae	Round Goby		5	1.2	1	
Centrarchidae	Redear sunfish	1				1
Catastomidae	River carpsucker				1	
Cyprinidae	River shiner					24
Catastomidae	Smallmouth buffalo	1	4	1.2	2	1
Cyprinidae	Sand shiner					4
Cyprinidae	Spotfin shiner	36	30	16.8	60	
Percidae	Slenderhead darter					
Catastomidae	Shorthead redhorse				1	
Clupeidae	Skipjack herring					1
Centrarchidae	Smallmouth bass	1	2	1.2	4	6
Cyprinidae	Spottail shiner	3			4	
Cyprinidae	Suckermouth minnow					

Marseilles Reach-Ballards Island (RM 248.0)  
Three-phase AC electrofishing CPUE data 1993-2012

<b>FAMILY</b>	<b>SPECNAME</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
Cyprinidae	Silver chub	1				
Cyprinidae	Silverband shiner					
Clupeidae	Threadfin shad					7
Ictaluridae	Tadpole madtom					
Catastomidae	Quillback					1
Moronidae	White bass					
Centrarchidae	White crappie					
Ictaluridae	Yellow bullhead					
Moronidae	Yellow bass					