

**From:** [Matthews, Kimberly](#)  
**To:** [Wesley, Amy L.](#);  
**Subject:** FW: [Fwd: Commercial and Recreational Fisheries on the NortheastCapeFear River inquiry]  
**Date:** Tuesday, April 15, 2008 1:06:02 PM  
**Attachments:** [Cape Fear River Creel Survey Final Report.pdf](#)  
[Northeast Cape Fear Species List.xls](#)

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Here is the Barwick, B 2007 reference for Section 3.5.

**Kimberly Matthews**  
RTI International  
3040 Cornwallis Rd., RTP, NC 27709  
Phone: (919) 316-3366  
E-mail: [kmatthews@rti.org](mailto:kmatthews@rti.org)

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**From:** Schimek, Jennifer  
**Sent:** Tuesday, December 18, 2007 1:04 PM  
**To:** Matthews, Kimberly  
**Subject:** FW: [Fwd: Commercial and Recreational Fisheries on the NortheastCapeFear River inquiry]

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**From:** Bob Barwick [<mailto:bob.barwick@ncwildlife.org>]  
**Sent:** Tuesday, December 18, 2007 12:24 PM  
**To:** Schimek, Jennifer  
**Subject:** RE: [Fwd: Commercial and Recreational Fisheries on the NortheastCapeFear River inquiry]

Jenn,

Attached is a copy of the creel survey from the Cape Fear River. Results such as angler effort, catch, and harvest over the course of the year can be assumed to approximate what you might expect to find near your study area. Also attached is a list of species that have been collected in the Northeast Cape Fear near your project area. All fish were collected using electrofishing techniques. Because of capture bias associated with all types of sampling gear, this list does not reflect all fish that may occupy the river (for example, small demersal species such as darters are likely underrepresented in our sample data). This assemblage of fish may not occupy the area all the time, and may shift to a fish community comprised of more estuarine species during times of drought and elevated river salinities.

For other nongame species of fish, crayfish, and other aquatic organisms, I'd recommend contacting Rob Nichols, our coastal aquatic nongame biologist, at [rob.nichols@ncwildlife.org](mailto:rob.nichols@ncwildlife.org) as well. Hope this information helps. If you need anything else, please let me know.

Bob Barwick, District 2 Fisheries Biologist  
North Carolina Wildlife Resources Commission  
Division of Inland Fisheries  
Winterville, North Carolina  
(252) 355-6235 (Office)  
[bob.barwick@ncwildlife.org](mailto:bob.barwick@ncwildlife.org)  
[www.ncwildlife.org](http://www.ncwildlife.org)

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

**From:** Schimek, Jennifer [<mailto:jschimek@rti.org>]  
**Sent:** Tuesday, December 18, 2007 11:35 AM  
**To:** Bob Barwick  
**Subject:** RE: [Fwd: Commercial and Recreational Fisheries on the NortheastCapeFear River inquiry]

Not to appear greedy, but all information and data sources are welcomed!

Thanks so much,

Jenn

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**From:** Bob Barwick [mailto:bob.barwick@ncwildlife.org]  
**Sent:** Tuesday, December 18, 2007 11:31 AM  
**To:** Schimek, Jennifer  
**Subject:** RE: [Fwd: Commercial and Recreational Fisheries on the NortheastCapeFear River inquiry]

Hi Jennifer,

If I interpret the previous correspondence correctly, you're looking for information about recreational fishing (economic value, catch, species sought by anglers) in the Northeast Cape Fear River? If so, I can send you a copy of our angler survey for the Cape Fear River basin as Pete suggested. It presents information about what anglers are fishing for, catching, and harvesting at various times of the year as well as their fishing-related expenditures. If this is something you'd be interested in taking a look at, I'll be happy to send it along.

I assume you have already received the fish species information you requested – if not, I can send you some of the results from our sampling in that area as well. Since we use a different technique (electrofishing) than DMF, there might be some differences in our catch.

Bob Barwick, District 2 Fisheries Biologist  
North Carolina Wildlife Resources Commission  
Division of Inland Fisheries  
Winterville, North Carolina  
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-----Original Message-----

**From:** James W. Kornegay [mailto:kornegayjw@mchsi.com]  
**Sent:** Tuesday, December 18, 2007 9:51 AM  
**To:** 'Schimek, Jennifer'  
**Cc:** Mumford, Doug; Rohde, Fritz  
**Subject:** RE: [Fwd: Commercial and Recreational Fisheries on the NortheastCapeFear River inquiry]

Hi Jennifer- I am forwarding your e-mail to Mr. Bob Barwick of our staff. The NE Cape Fear River is in his work area and he may be able to assist you with your request. We have recently completed creel surveys on several coastal rivers and the economic valuations of these fisheries were a part of the surveys. Although we do not have information specific to your area of interest, our reports may be useful to you to get an idea of the relative economic impact that occurs as a result of recreational fisheries. Bob will also have fish sampling data available to you but he may need for you to specify your exact needs.

If you need further information, please give me a call.

Pete Kornegay

<~> <~> <~> <~> <~> <~> <~> <~>  
James W. (Pete) Kornegay  
Coastal Region Supervisor  
North Carolina Wildlife Resources Commission  
Division of Inland Fisheries

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[kornegayjw@mchsi.com](mailto:kornegayjw@mchsi.com)

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

**From:** Schimek, Jennifer [mailto:[jschimek@rti.org](mailto:jschimek@rti.org)]  
**Sent:** Thursday, December 13, 2007 10:56 AM  
**To:** [doug.mumford@ncmail.net](mailto:doug.mumford@ncmail.net)  
**Subject:** FW: [Fwd: Commercial and Recreational Fisheries on the NortheastCapeFear River inquiry]

Hi Doug,

I have been working with Rich Carpenter to obtain data on fish species and fisheries in the Northeast Cape Fear River around Castle Hayne. Rich suggested that I contact you for information on the value of sport fisheries in the area. I would be very grateful for any help you could provide me in this matter. Specifically, I am looking for any information pertaining to the seasonal variance of sport/recreational fishing and the value of the industry in the area (in quantity of fish or economic value).

\* Location and value of commercial and sport fisheries as well as the seasonal distribution by species.

Thank you for taking the time to read the request and please let me know if you have any questions!

Jenn Schimek

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**From:** Rich Carpenter [mailto:[Rich.Carpenter@ncmail.net](mailto:Rich.Carpenter@ncmail.net)]  
**Sent:** Wednesday, December 12, 2007 4:07 PM  
**To:** Schimek, Jennifer  
**Cc:** Jim M Kelley; Fritz Rohde; Alan Bianchi; [doug.mumford@ncmail.net](mailto:doug.mumford@ncmail.net)  
**Subject:** Re: [Fwd: Commercial and Recreational Fisheries on the NortheastCapeFear River inquiry]

Jennifer

Attached is an excel file with the species list from our sampling in the Northeast Cape Fear. The samples were collected with a 10.5 foot otter trawl with .25 inch mesh. The notations beside each species are S = spawning, N = nursery and R = resident. Commercial landings data are available but will be for the entire Cape Fear River system as we don't break the Northeast out separately. To get those landings contact [alan.bianchi@ncmail.net](mailto:alan.bianchi@ncmail.net). The contact for our recreational information is [doug.mumford@ncmail.net](mailto:doug.mumford@ncmail.net). There's not really a key indicator species but I may not understand what you're asking. Please feel free to contact me at 910.796.7291 if you'd like.

Rich Carpenter

Schimek, Jennifer wrote:

I am interested in the species in the Northeast Cape Fear River from Prince George Creek to the new 40 bypass. The information is for an environmental report for a proposed facility on the GE site.

Thanks and feel free to contact me if you have any additional questions!

Jenn

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

**From:** Fritz Rohde [mailto:[Fritz.Rohde@ncmail.net](mailto:Fritz.Rohde@ncmail.net)]  
**Sent:** Thursday, December 06, 2007 12:04 PM  
**To:** Schimek, Jennifer  
**Cc:** Rich Carpenter  
**Subject:** Re: [Fwd: Commercial and Recreational Fisheries on the NortheastCape Fear River inquiry]

Hi:  
Your request got forwarded to me from Jim Kelley. When you say  
"Northeast" which part are you referring to or is it the entire river up  
into Duplin County? And what is this information needed for?  
Fritz

Jim Kelley wrote:

Please see what we can do for her

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Subject:  
Commercial and Recreational Fisheries on the Northeast Cape Fear River

inquiry  
From:  
"Schimek, Jennifer" <[jschimek@rti.org](mailto:jschimek@rti.org)>  
Date:  
Wed, 5 Dec 2007 16:19:54 -0500  
To:  
[jim.m.kelley@ncmail.net](mailto:jim.m.kelley@ncmail.net)

To:  
[jim.m.kelley@ncmail.net](mailto:jim.m.kelley@ncmail.net)

Hi Jim,

Thank you for helping me track down information regarding commercial  
and recreational fish species in the Northeast Cape Fear River.  
Specifically, I am looking for:

- \* A list of the species,
- \* If those species use the river for spawning, nursery, and/or habitat. (Maybe just and S, R, or H behind the species name to indicate use?),
- \* If there are any key indicator organisms expected to gage quality change in the Northeast Cape Fear river, and
- \* Location and value of commercial and sport fisheries as well as the seasonal distribution by species.

Your help with as much of this information as possible is much appreciated.

Thank you and have a great day!

/Jennifer Schimek/

/Environmental Scientist/

/RTI International/

/Phone: 202-974-7831/

/Email: [jschimek@rti.org](mailto:jschimek@rti.org)///

Common Name	Scientific Name	Spawning	Nursery
American eel	<i>Anguilla rostrata</i>		✓
American shad	<i>Alosa sapidissima</i>	✓	✓
Black crappie	<i>Pomoxis nigromaculatus</i>	✓	✓
Blue catfish	<i>Ictalurus furcatus</i>	✓	✓
Bluegill	<i>Lepomis macrochirus</i>	✓	✓
Bluespotted sunfish	<i>Enneacanthus gloriosus</i>	✓	✓
Bowfin	<i>Amia calva</i>	✓	✓
Chain pickerel	<i>Esox niger</i>	✓	✓
Channel catfish	<i>Ictalurus punctatus</i>	✓	✓
Coastal shiner	<i>Notropis petersoni</i>	✓	✓
Common carp	<i>Cyprinus carpio</i>	✓	✓
Creek chubsucker	<i>Erimyzon oblongus</i>	✓	✓
Dusky shiner	<i>Notropis cummingsae</i>	✓	✓
Eastern mosquitofish	<i>Gambusia holbrooki</i>	✓	✓
Fantail darter	<i>Etheostoma flabellare</i>	✓	✓
Flat bullhead	<i>Ameiurus platycephalus</i>	✓	✓
Flathead catfish	<i>Pylodictis olivaris</i>	✓	✓
Flier	<i>Centrarchus macropterus</i>	✓	✓
Gizzard shad	<i>Dorosoma cepedianum</i>	✓	✓
Golden shiner	<i>Notemigonus crysoleucas</i>	✓	✓
Hogchoker	<i>Trinectes maculatus</i>		✓
Hybrid sunfish	<i>Lepomis sp.</i>	✓	✓
Largemouth bass	<i>Micropterus salmoides</i>	✓	✓
Longnose gar	<i>Lepisosteus osseus</i>	✓	✓
Mojarra	Family Gerreidae		
Pirate perch	<i>Aphredoderus sayanus</i>	✓	✓
Pumpkinseed	<i>Lepomis gibbosus</i>	✓	✓
Redbreast sunfish	<i>Lepomis auritus</i>	✓	✓
Redear sunfish	<i>Lepomis microlophus</i>	✓	✓
Redfin pickerel	<i>Esox americanus</i>	✓	✓
River herring	<i>Alosa sp.</i>	✓	✓
Silver redhorse	<i>Moxostoma anisurum</i>	✓	✓
Spotted sucker	<i>Minytrema melanops</i>	✓	✓
Spotted sunfish	<i>Lepomis punctatus</i>	✓	✓
Striped bass	<i>Morone saxatilis</i>	✓	✓
Striped mullet	<i>Mugil cephalus</i>		
Swallowtail shiner	<i>Notropis procne</i>	✓	✓
Tadpole madtom	<i>Noturus gyrinus</i>	✓	✓
Tarpon	<i>Megalops atlanticus</i>		✓
Tessellated darter	<i>Etheostoma olmstedii</i>	✓	✓
Threadfin shad	<i>Dorosoma petenense</i>	✓	✓
Warmouth	<i>Lepomis gulosus</i>	✓	✓
Yellow perch	<i>Perca flavescens</i>	✓	✓

