



VIRGINIA GAME FISH



ANNUAL REPORT 2008

Jon A. Lucy
Lewis Gillingham

Anglers, Watch For Tags in Fish You Catch

Call in recaptured fish reports to: **757-491-5160.**

Important information to include:

- tag number
- kind of fish and condition of fish
- fish length (measured? or estimated?)
- where and when caught
- did it have more than one tag
- fish kept or released (if released did you leave tag in the fish—preferred if practical)
- name, mailing address and phone number

Access the entire series of tagging reports beginning in 1995
on VIMS website

<http://www.fisheries.vims.edu/tagging/gamefishtag.htm>

Cover Art: From the tagging program's past t-shirts used as
rewards for anglers reporting tagged fish. T-shirt artwork
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Virginia Game Fish Tagging Program

Annual Report

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The idea for developing and ultimately putting into action the Virginia Game Fish Tagging Program was that of Mr. Claude Bain, III. Retiring September 1, 2007, as director of the Virginia Saltwater Fishing Tournament (VSFT) under the Virginia Marine Resources Commission (VMRC), Mr. Bain approached Jon Lucy at the Virginia Institute of Marine Science (VIMS) during the late 1980's about developing a tagging project on red drum.

Both from his personal angling experience and developing the VSFT database on trophy red drum catches, Mr. Bain provided good documentation that the species' seasonal movements along the Virginia-North Carolina coasts and into Chesapeake Bay periodically provided quality fishing for boat, surf, and fishing pier anglers. Not only were "pan-size fish" important, but older year classes of fish supported a growing trophy fishery for 30 to 70+ pound fish. Given the species' importance to Virginia's angling community, Bain was surprised at VIMS lack of scientific data on the species.

Checking the databases from VIMS Trawl and Beach Seine Surveys, Lucy found that the two fish monitoring programs infrequently captured juvenile red drum during systematic sampling of the lower bay and its tributaries. Therefore, there was only sparse VIMS data indicating the fish's seasonal movement patterns and habitat preferences in state waters. More importantly, there was no comprehensive time series of data on relative numbers and size distribution of red drum using state waters. Nor was there anything but anecdotal information on where juvenile and adult drum, when abundant in Virginia, over-wintered, i.e., in Virginia waters, both Virginia and North Carolina waters, or largely only in North Carolina waters.

Typically, the Virginia fishery experiences sudden ups and downs year to year in sub-adult drum abundance. This makes it difficult to have enough lead-time to submit a tagging study research proposal and secure funding to target such fish. Therefore, the tagging study idea was put on hold. However, when Virginia enacted its saltwater recreational fishing license program in 1994-1995, it seemed prudent to revisit the idea. The thinking was that possibly saltwater fishing license funds could provide some financial support for a tagging study on red drum.

However, Bain and Lucy realized not only were critical habitat and seasonal movement data sparse for red drum in state waters, the same situation existed for a number of other species important to the state's marine recreational anglers, i.e., black drum, cobia, speckled trout, and tautog. Therefore, they decided a more prudent approach was to explore developing a multi-species, angler-assisted tagging program.

Such a program would develop a core group of trained anglers whose angling expertise and knowledge of when and where certain fish occur could enhance efficient tagging of significant numbers of selected target species. The program had some practical appeal to the angling community because evolving fishery regulations for estuarine-marine species were increasingly requiring catch and release practices to better conserve undersize (typically pre-spawning) fish. Likewise, growing research on proper catching, handling, and releasing of marine fish by anglers

was being documented to achieve significantly good survival rates (i.e., lower hook-release mortality rates) for a number of species.

Therefore, an organized, angler-assisted tagging program focused largely on undersized fish had potential for producing useful results. Having previously conducted a study of angler' experiences with a mix of federal, regional, and local fishing groups run tagging programs, Lucy had some background for organizing a Virginia tagging program. Therefore, the Game Fish Tagging Program came into existence in 1995, primarily funded from Virginia saltwater fishing license funds and matching funds from VIMS.

In September 2007, Mr. Lewis Gillingham became the new VSFT Director. As part of his many responsibilities, he took over managing the Virginia Beach office portion of the tagging program. Ann Burnett in that office also deserves special recognition for her exemplary work ethic, which keeps daily program activities on track. Since late fall 2007, Mr. Todd Sperling at the VMRC main office in Newport News has updated the program's database into a more efficient format. He maintains the database while fine-tuning it for changing data analyses and output needs.

At VIMS, Ms. Dianne Roberts provides critical assistance to the tagging program designing graphs and materials for tagging training workshops. Also in VIMS Marine Advisory Services Program, Ms. Cheryl Teagle coordinates purchasing tags while helping manage the tagging program budget. VIMS Publications Center (primarily Ms. Ruth Hershner) provides critical assistance in preparation of posters aimed at keeping anglers aware of program activities and results. The Center also prepares graphics for annual reports, the VIMS Game Fish Tagging Program web site (also updated by Ms. Roberts), and presentations before scientific meetings, angling groups, etc. Ms. Sylvia Motley in the Publications Center Print Shop handles printing production of annual reports.

The Game Fish Tagging Program is a team effort by many critical players, including the anglers who devote significant time and effort to tagging target fish and reporting fish recaptures.

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Introduction

Through 2008, the Virginia Game Fish Tagging Program has maintained a database comprised of 14 years of data on tagged and recaptured fish. The program is a cooperative project of the Virginia Saltwater Fishing Tournament (VSFT-under the Marine Resources Commission) and the Virginia Institute of Marine Science (VIMS) of the College of William and Mary (under VIMS Sea Grant Marine Advisory Program).

Funding, applied for annually through a competitive proposal process under VMRC's Recreational Fishing Advisory Board, requires the Board's positive recommendation, which then goes before VMRC Commissioners for final approval. Proposals include distinctive budgets for the VSFT office and VIMS. If funding is approved, the project's budget primarily comes from Virginia Saltwater Recreational Fishing License Funds (administered by VMRC), with additional matching funds from VIMS.

The VSFT tagging program budget largely covers expenses associated with purchasing "reward" items to give to persons reporting recaptured tagged fish. In addition, there are significant expenses associated with weekly mailings of reward items to persons reported recaptured fish (each mailing also includes a printed "Fish Tag-Recapture Report"). Reward items typically include custom T-shirts, caps, sun visors, pewter fish pins, or plastic tackle organizers.

The program's feedback mechanism (reward items and recapture reports) is essential to encouraging anglers, commercial fishermen, seafood dealers, etc. to call in reports of tagged fish. Such individuals are the program's "eyes and ears." Through rewards and feedback on when and where recaptured fish were tagged, the program encourages reporting of tagged fish by the recreational and commercial fishing communities.

The overall goal of the program is to train and maintain a limited corps of experienced angler taggers who, while conducting their normal fishing activities, also are willing to tag and release a portion of their catch. Strict adherence is expected to tagging only designated target fish species.

Training for new taggers occurs at annually organized tagging workshops. To keep the program manageable, the annual participation level is limited to around 200 active taggers. Updates on tagging results, refinements on how to become better organized when tagging, and tag retention issues are included in such workshops. Experienced taggers are encouraged to attend training workshops to learn about new issues hear about recent accomplishments. At the workshops, experienced taggers also often share practical ideas regarding how to simplify tagging for individuals, i.e., tagging from a pier, shore, or a boat presents different practical challenges for angler taggers. They also contribute good ideas for better ways to handle certain species for tagging, improving data recording and data submission, etc.

Trained angler taggers focus tagging effort on designated target species important to Virginia's marine recreational fisheries (occurring in Chesapeake Bay, Bay tributaries, and adjacent coastal waters). While many in the angling community understand and enjoy the diversity of saltwater fish available in state waters, they do not always realize the economic importance of the fishery. The overall economic impact of Virginia's marine recreational fishery was estimated to

be just over one billion dollars both in 2004 (Kirkley et al. 2005) and 2006 (Gentner and Steinback, 2008).¹

Over the history of the tagging program, some changes have occurred in species targeted. The program began with six target species in 1995, i.e., cobia, black drum, red drum, spadefish, speckled trout, and tautog. Gray trout (weakfish) was added during 2006, the species quickly accounting by far for the most fish tagged annually. However, the significant effort on trout never produced annual recapture rates higher than one percent. Therefore, in 2000 the program dropped the species. As summer flounder catches were significantly improving, the dropping trout provided the opportunity for adding that species. Annually, tagged flounder numbers soon far exceeded those of other target species. The program currently focuses on ten species (see listing on p. 5).

A key objective of the tagging program is to focus tagging effort on species currently not targeted in local waters by scientifically designed, more “conventional” tagging studies. In the case of flounder, VIMS ceased tagging studies on the species following major projects during the mid 1980s and early 1990s. Beginning in 2006-2007, VIMS initiated “non-conventional tagging research” projects on flounder, i.e., faculty mentored graduate students using acoustic and archival tags with the species. Complimenting tagging program efforts, such projects were assisted by angler taggers helping capture flounder, especially when larger fish were needed. Striped bass, a species often assumed by anglers to be part of the Game Fish Tagging Program, is not a target species of the tagging program. Unlike flounder, conventional tagging projects have been ongoing for decades with striped bass under various cooperative state and regional projects, i.e., through groups such as the U. S. Fish and Wildlife Service, VIMS, VMRC, and other state-regional fishery management agencies.

Overview of Activities and Results

During 2006-2008, top ranked species by number of fish tagged per year were primarily summer flounder, red drum, speckled trout, black sea bass, and tautog, respectfully. Cobia, black drum, spadefish, sheepshead, and gray triggerfish rounded out the tagging effort. The program’s tagging effort, and subsequent recapture results, are helping document general movement and habitat use patterns of target species. Many of these species spawn in lower Bay or nearshore to offshore waters of Virginia-North Carolina while others seasonally use Virginia estuarine and coastal shoreline/ocean inlet waters as primary nursery and feeding grounds.

Tagging effort for species such as flounder, red and black drum, speckled trout, cobia, and sheepshead primarily occurs in Chesapeake Bay and nearshore coastal waters. However, tagging of tautog, black sea bass, gray triggerfish, and spadefish occurs over much broader areas, including bay, nearshore, and offshore waters. For these latter species, effort primarily focuses

¹References: J. Kirkley, T. Murray, and J. Duberg. 2005. Economic contributions of Virginia’s commercial seafood and recreational fishing industries: a user’s manual for assessing economic impacts. VIMS Marine Resource Report No. 2005-9, Virginia Sea Grant Program Report VSG-05-17; (<http://www2.vims.edu/seagrant/dbpages/detail.asp?ID=891>); Gentner and S. Steinback. 2008. The economic contribution of marine angler expenditures in the United States, 2006. NOAA Fisheries Tech. Memorandum NMFS-F/SPO-94 (<http://spo.nmfs.noaa.gov/tm/>).

on structure sites such artificial reefs, bridge-tunnel complexes, historic shipwrecks, and other bottom “hangs” known to hold fish.

During late fall, winter, and early spring months, through the cooperation Virginia Dominion Power special tagging continues to occur at two power plant warm-water, discharge canal areas i.e., the Yorktown Power Station (lower York River) and the Center for Energy Conservation (CEC) Power Station (Southern Branch of the Elizabeth River). This cooperative effort annually documents that the two areas are “over-wintering sites” for significant numbers of speckled trout and sub-adult red drum. Occasionally small numbers of juvenile sheepshead, black drum, cobia, and black sea bass also are tagged in the power station canals. Especially during cooler months, such power plant discharges both artificially increase nearby water temperatures as well as enhance the local abundance of food organisms targeted by juvenile and adult fish.

The VSFT office in Virginia Beach receives all tagged fish recapture reports by telephone (and sometimes email). Local and Atlantic coast saltwater anglers have long-term familiarity with Virginia marine fishing areas, and especially the VSFT program. Starting in 1958, the VSFT annually awards handsome citation plaques to anglers for catches of trophy fish (kill and release citations are available for many species). The Tournament’s reputation among anglers enhances the office being the contact point for anglers reporting tagged fish catches, and its telephone number is on all tags. Program posters placed at tackle shops, boat ramps, etc. also publicize the program’s target species and telephone number. During normal working hours, anglers calling in recapture reports typically speak with office staff (as much as time allows). Otherwise, called in reports are left on the office’s voice mail, as also the case during evenings and weekends.

Reports come into the office primarily from Virginia and North Carolina waters, but also from a range of coastal states (from Rhode Island to Florida to date). While tagged fish recapture reports primarily originate from anglers and charter boat captains, they also come from commercial fishermen, “paid observers” on commercial fishing boats, persons at fish packinghouses, and operators of fresh seafood outlets. A copy of a specific tagged fish’s “Recapture Report” goes to both the capturer and tagger of the fish.

Such reports keep the angling community interested in the tagging program, including reminding anglers to be on the lookout for tags on fish. The reports also provide hard evidence to the angling community that catch and release conservation practices, whether voluntary or a result of fishing regulations, make for more and better quality catches within a given fishing season as well for future years.

While the majority of data for tagged fish and recaptured fish are keyed into the database at the tournament office, as of 2008 VIMS began keying in tagged and recaptured fish data for select taggers. The growing data entry workload is largely a result of significant increases in the number of flounder tagged annually. In 2006-2008, the number of flounder tagged represented 38 %, 46 %, and 39% of the yearly total of all tagged fish. Ms. D. Roberts now enters tagged and recapture fish data for the program’s most productive tagger (Mr. E. Shepherd). During both 2007 and 2008, Mr. Shepherd tagged over 4,000 fish, which resulted in 746 and 794-recapture reports, respectively (Table 1A). Ms. Roberts also provides critical expertise to the program

regarding organizing data, producing handout materials for tagging training workshops, and producing data graphs and tables for annual reports.

At VIMS, the ordering of tags and tagging equipment is coordinated. Construction of measuring boards for use by new taggers also occurs at VIMS. The Institute produces and distributes posters promoting the program. Beyond general data output reports, VIMS is responsible for detailed analysis of tag and recapture data, responding to requests for data from state and federal fishery management agencies, and producing annual reports.

While limited hard copies of annual reports are printed and distributed to taggers, primary access to annual reports, including summary tables of tag-recapture results during specific years, is via VIMS web site (<http://www.vims.edu/adv/recreation/tag/index.html>). The VIMS site, maintained and updated (by D. Roberts) now includes PDF files of all annual tagging reports going back to 1995. In addition, Ms. S. Davis (VMRC) updates program information, photos from tagging training workshops, etc. on the VMRC web site (<http://www.mrc.state.va.us/vswft/vsft2.shtm>). The VMRC site includes a link to the Game Fish Tagging Program web page at VIMS.

Fisheries Managers and Researchers: Special Database Uses 2008-2009

Information continues to improve on target species' movements and habitat use patterns in local waters as well as their seasonal migration patterns within and beyond Virginia waters. The angling community is particularly interested in within-season and season-to-season movement of fish tagged. Tag-recapture results are shared with the angling community through VIMS Game Fish Tagging Program web site, talks to fishing clubs, and special articles in the Virginia Sea Grant quarterly magazine, the Marine Resource Bulletin (see Fish Stories article in Appendix A).

Tagging program results on trends in "abundance" and lengths of tagged and recaptured fish are periodically useful to Virginia researchers and fishery managers. For example, such data can enhance available data from NOAA Fisheries' Marine Recreational Fisheries Statistical Survey. Such data particularly help document length distributions of select fish released by anglers under Virginia-regional fishery regulations. Regarding data on large red, drum, black drum, and cobia, the program's size distribution data on tagged fish compliment results from VIMS ChesMMap trawl survey aimed at sampling larger fish. Likewise, data on the annual occurrence and size distribution of Age 1, 2, and 3+ fish year classes (and occasionally Age 0 fish) enhance often sparse data from VIMS Juvenile Fish Trawl and Beach Seine Surveys (for species such as red drum, speckled trout, tautog, and possibly black sea bass).

Speckled Trout: A preliminary tagging study of spotted seatrout in North Carolina was initiated during 2008 in preparation for more in-depth tagging to be initiated during 2009. With initial meetings beginning in early 2009 for development of a North Carolina Fishery Management Plan (FMP) for Speckled Trout, updated details on trout tag-recapture results from Virginia are shared with persons involved in that project. Because some small portion of sea trout tagged in Virginia are recaptured annually in North Carolina waters, the state's Speckled Trout FMP advisory committee is striving to include Virginia waters in the geographical scope of its trout stock assessment (Ms. B. Burns, NC Div. Marine Fisheries, personal communication).

Red Drum: Beginning in fall 2008, VMRC (Mr. J. Grist and others) took the lead on an ASFMC Red Drum Working Group developing a benchmark assessment of red drum from Virginia through Florida. To date, Virginia's red drum tagging results (1995-2007) have been shared with the group. This marks the first significant use of red drum tag-recapture data from Virginia waters in such processes.

Flounder: VIMS PhD student, Mr. M. Henderson (advisor, Dr. M. Fabrizio, VIMS Dept. of Fisheries Science), is planning to use the program's 2000-2008 flounder tag-recapture data as part of his broader study on dynamics of seasonal movement of the species between lower Chesapeake Bay and offshore waters. The data are currently under review by Mr. Henderson for evaluation in various models. He will determine whether certain key population parameters, especially estimates of Fishing Mortality, can be derived from the nine-year data set.

Database Maintenance and Improvements

The database, currently maintained on a server at VMRC, has been modified to allow select taggers, who meet avidity and computer-literacy skills, to directly enter their own tagging data much like VMRC's online Fishermen's Log (Mr. T. Sperling, VMRC, manages the tagging program database). An additional database feature now available to program taggers allows individual taggers to access, review, and save data records on fish they tagged along with associated recaptures of those fish. To enable taggers to only access their own data, they are limited to viewing data records having tag number series specifically assigned to them. Mr. Sperling has also been improving the database and adding more data management options to assist tagging program coordinators' options for working with the data.

Target Species: 2008-2009

Target species for 2008-2009 appear below. As previously mentioned, summer flounder replaced gray trout (weakfish) in 2000. The program's early experience with extremely low recapture rates in the species was not totally unsuspected given relatively high tag loss rates in limited tank trials at VIMS. More recently, this problem was validated by controlled tank trials in Delaware (Mr. J. Clark, DE Div. Fish & Wildlife, personal communication). Target species have remained unchanged since 2000.

Black Drum	<i>Pogonias cromis</i>
Black Sea Bass	<i>Centropristis striata</i>
Cobia	<i>Rachycentron canadum</i>
Summer Flounder	<i>Paralichthys dentatus</i>
Gray Triggerfish	<i>Balistes capriscus</i>
Red Drum	<i>Sciaenops ocellatus</i>
Sheepshead	<i>Archosargus probatocephalus</i>
Spadefish	<i>Chaetodipterus faber</i>
Speckled Trout	<i>Cynoscion nebulosus</i>
Tautog	<i>Tautoga onitis</i>

Activities and General Accomplishments-2008

Late in the year, taggers are requested to renew their active status in the program for the coming year. Because of a range of tagger circumstances (selling their boat, moving out of the area, not fishing as much as expected, etc.), something on the order of 25 % to 30 % of new taggers during a given year may drop from active status at year's end. With a ceiling on participation of around 200 people, this opens up new "slots" for anglers wanting to join the program (a waiting list of such anglers is maintained).

For the first time in the history of the program, during 2008 there were five Tagging Training Workshops held to accommodate anglers' interests in joining the tagging program (two workshops were requested on the Eastern Shore rather than the usual single event). Nearly 60 new taggers went through the training sessions. However, as always the case, not all newly trained anglers found the rigors of the tagging program to fit comfortably into their fishing activities. Such anglers often tag few to any fish during their first year and subsequently do not renew their commitment to stay with the program for a second year.

A feature of the program enjoyed by participants is the annual recognition of the year's "Top Taggers" for the program by target species. For the past several years, the presentation of tagger award plaques has been coordinated to occur on a prime weekend of the Bass Pro Shop's Annual Spring Fishing Classic. Held at the Hampton store, the awards ceremony is included in the event's fishing seminar sessions. The store adds to the prestige associated with the tagging awards by graciously providing winners with a modest assortment of fishing tackle items.

As noted in Table 1A (tagging winners: 2006-2008) and Table 1B (winners and runners-up: 2007 and 2008), some taggers remain among the winners over several years running. In particular, Mr. Ed Shepherd of Yorktown continues to be a dominant tagger for the program, as well as a major program ambassador for anglers using the public Gloucester Point Fishing Pier and other locations where he tags fish (see Appendix section-Marine Resource Bulletin article "Fish Stories"). Just as often, there are also some "first-timers" among those receiving tagging recognition (compared to 2006-2007, there were four such taggers in 2008). The annual awards make for fun, friendly competition among participants, while serving to give recognition to individuals for truly outstanding tagging efforts. Presenting the awards in a public forum like the Bass Pro Fishing Classic also helps promote the tagging program before a mixed group of anglers.

In Tables 2A (taggers by "last name" and 2B (taggers by total fish tagged), taggers receiving "Tagging Conservation Certificates" are listed for 2008. Individuals tagging a total of 25 or more fish during a given year receive such certificates. These taggers (87 trained anglers) collectively tagged just over 19,000 fish during 2008, accounting for about 97% of the year's total tagged fish (19,720 fish across 10 target species).

Recognition also is given to taggers having five or more fish recaptured during the year. The listing of these taggers (by "last name" and "total recaptures") for 2008 appears in Tables 3A and 3B. Naturally, those taggers who tagged the highest total numbers of fish during the year also usually rank high in recaptures.

Tagging Effort and Recaptures-2008

Through 2008, the program's database included over 151,000 tagged fish records and approximately 14,500 recapture records (Table 4; Figs. 1 and 2). During 2006-2008, there was consistency among top ranked species by number of fish tagged per year. Summer flounder accounted for the most tagged fish each year followed by red drum, speckled trout, black sea bass, and tautog, respectively. Cobia, black drum, spadefish, sheephead, and gray triggerfish rounded out the tagging effort.

Compared to 2007, the number of flounder tagged during 2008 declined somewhat, while numbers of the other top tagged species all increased. While greater numbers of adult black drum were tagged than in prior years, black drum recaptures declined in 2008, likewise the situation with sheephead, spadefish, and tautog. The number of cobia tagged during 2008 was comparable to that in 2007; however, 2008 recaptures were down.

Cumulative recapture rates (Fig. 3) were 10% to about 15% for spadefish, cobia, black sea bass, and tautog. Recapture rates held at 7-9% for sheephead, flounder, and red drum. The lowest recapture rates (2.8-4.6%) occurred for speckled trout and black drum, respectively.

Participation in the program remains at around 200 taggers (Fig. 4A). Total numbers of fish tagged, and reported recaptures, have shown a steady increase since 2005 (Fig. 4B, 4C). However, recaptures in 2008 declined slightly below those for 2007, a banner year for the program (Fig. 5C). The continued involvement of experienced taggers in the program, coupled with the enthusiasm of new taggers, resulted in a significant increase in the number of anglers tagging 50-99 fish during 2008 (Fig. 5). Figure 5 also shows that the number of anglers maintaining higher levels of tagging effort remained relatively stable for 2007 and 2008 (200-300 fish, 500-900 fish, etc.). Such dedicated, consistent tagging efforts are responsible for the program's recent record years of tagged fish, and the associated increased recapture data.

Addressing Tag Loss Concerns

Over the course of the program, tag retention field trials are coordinated by VIMS to evaluate whether changes might be warranted regarding the type of tag used for specific target species. For example, depending upon the range in size of target species, certain tags are more appropriate for "small" fish specimens versus large fish. For example, the T-bar tag (2.5 inch/63 mm long) is appropriate for juvenile black and red drum, and juvenile cobia, up to about 26-28 inches total length (660-711 mm TL). However, as these fish can grow upwards of 50+ inches TL (1,270 mm TL), the smaller T-bar tag is not as effective as certain dart tags for larger specimens of these species (larger dart tags tend to have better tag retention rates and are more visible than T-bar tags). Therefore, for larger fish the program experiments with various single barb dart tags, including a 6.25 inch (159 mm) long tag with a stainless steel anchor head and attached stainless wire throughout the center of the tag streamer (see Appendix A for photos of various tags).

During 2007-2008, Mr. Lucy (VIMS) coordinated tagging efforts of three taggers to assist him with field trials in which both “dogleg dart” tags (DD tags) and “wide, flattened barb dart” tags (DW tags) were paired with T-bar tags for double tagging speckled trout and sub-adult red drum. Note in Appendix A, the tag photos do not include the DW tag (the same size as DD and DS tags pictured, but with an anchor barb flattened into a “spatula” shape).

Results to date from recaptures of double-tagged fish have been mixed, with no clear pattern of which tags have the longer retention times. The fact that anglers have no way of knowing if a fish they recapture might have been double tagged is a major part of the problem. Therefore, angler reports on such fish are often not clear as to whether one or two tags were observed in the fish when only one tag number was noted and reported. This is particularly a problem with reports of recaptured, double-tagged fish left on voice mail during evenings and weekends.

The degree of ambiguity on this issue with speckled trout and red drum has resulted in the program changing tactics to assess tag retention of different tag types in the species during 2009. Rather than double tag the fish, a small group of select taggers will alternate between the experimental tag types in fish, e.g., single tag 25 fish with the DD tag, then single tag the next 25 fish with the DW tag. Examining recapture rates and times at large for the different tags hopefully will provide clear indications as to whether the DD and/or DW tags produce better outcomes in 14-26 inch fish compared to the T-bar tag used by most taggers for red drum (yearling and sub-adult fish) and speckled trout (≥ 14 inch fish).

Key Program Accomplishments Supported by 2008 Results

Flounder: Sub-legal flounder tagged in Chesapeake Bay and Chincoteague Inlet waters continue to show a strong pattern of recaptures typically occurring 2-8 weeks, sometimes longer, in the same general area where the fish were tagged. This is particularly the case for flounder tagged in the area of fishing piers, rock jetties, and structure sites such as artificial reefs, shipwrecks, and bridge-tunnel complexes.

For flounder tagged in Chesapeake Bay and in the area of Chincoteague on the seaside of the Eastern Shore, during the ensuing year’s winter-spring period a small but consistent number of flounder recaptures occur both along non-Virginia coastal beaches and in association with ocean inlet waters as well as offshore continental shelf waters. However, by late spring-summer of the year following being tagged, a greater number of flounder recaptures show tagged fish moving back into (or possibly over-wintering in) Virginia’s Chesapeake Bay and other waters associated with the state’s ocean inlets and coastal barrier islands.

Virginia tagged flounder showing movement to the north are typically recaptured in waters from the mouth of Delaware Bay to New Jersey-New York ocean beaches and ocean inlets, as well as in Long Island Sound (New York and Connecticut sides of the sound). Beginning in 2006, there have also been some recaptures of Virginia tagged flounder occurring the year after tagging in waters off Rhode Island. The southern extreme for recaptured flounder from bay-tagged flounder includes waters along the North Carolina Outer Banks beaches and inside coastal sounds as well out on the state’s continental shelf. However, several recaptures of Virginia-tagged fish have also occurred along South Carolina’s coastal beaches.

Targeting flounder since 2000, the tagging program now has considerably greater numbers of recaptures for the species than resulted from two earlier VIMS studies. By and large, the Game Fish Tagging Program's flounder recapture data pattern supports conclusions of the earlier studies. However, the program is showing examples of the species migrating both further north (off Rhode Island) and south (along South Carolina beaches) than observed in the earlier studies (completed during the late 1980s and early 1990; see R. Kraus and J. Musick. 2001. A Brief Interpretation of Summer Flounder, *Paralichthys dentatus*, Movements and Stock Structure with New Tagging Data on Juveniles. Marine Fisheries Review 63 (3):1-6).

Cobia: Adult cobia tagged inside the lower bay continue to be recaptured months to 1-5 years post tagging, the majority of recaptures occurring again in the bay or occasionally off the state's ocean shoreline. Some bay-tagged adult cobia are also recaptured occasionally along North Carolina's Outer Banks and Florida's east coast. Interestingly, no cobia recaptures to date have been reported from South Carolina or Georgia waters. While only seven cobia recaptures were reported during 2008, two of the recaptures were adult fish at large almost two years (tagged in the bay June-August 2006 and recaptured June 2008). One of the cobia had returned to the lower bay while the other was recaptured in the ocean off Rodanthe, NC. Two 34-inch fish tagged in the lower bay during September 2007 were recaptured again in the lower bay during June-July 2008. Regarding cobia movement within the bay, a 37-inch cobia tagged in June 2008 off Back River was recaptured only eight days later, the fish having moved across the bay where it was caught again off the Town of Cape Charles.

Red Drum: During 1999, 2000, 2002, 2003, 2006, 2007, and 2008, significant year-classes of juvenile and sub-adult red drum were documented to contribute significantly to Virginia's marine recreational fishery. From 2002-2008 good numbers of adult drum (200+ fish each year) were also tagged in the Virginia fishery. During recent years characterized by milder winters, Rudee Inlet waters on the Virginia Beach oceanfront appear to have held sub-adult drum even throughout winter months. Such was the case during winter 2005/2006 and winter 2006/2007.

Since 1997-1998, tagging of small to significant numbers of small drum has occurred from December to early March at the Elizabeth River (Southern Branch) Hot Ditch power plant area. This documents that the species can regularly remain throughout the winter in that area associated with higher than normal water temperatures. During winters 2005/2006 to 2008/2009, over-wintering of small and some larger, sub-adult red drum also occurred at the outfall of the Yorktown Power Station's warm-water discharge canal (where it empties back into the York River the area is called the "York River Hot Ditch" by anglers).

Chesapeake Bay is considered the northern range of concentrations of red drum supporting a significant fishery. Tagging in bay and Rudee Inlet waters continues to document that from late summer into fall, episodic migrations of yearling and sub-adult drum occur in which the fish move primarily southward from Virginia to North Carolina waters. A number of recaptures document that the fish can cover distances of 30 to 200+ miles within 3-90 days post tagging. In select cases, individual fish often cover estimated minimum "straight-line distances" of 1-5 miles per day. There are a few case of such drum moving at even faster minimum rates, i.e., 6-15 miles per day.

Speckled Trout: The contribution of strong year classes of speckled trout to the recreational fishery has likewise been documented by tagging efforts during 1995, 1999, 2002, and 2004-2008. As with sub-adult red drum, speckled trout have also been documented to over-winter in the area of lower bay power plants during both cold and mild winters. As in recent past years, from November 2008 through March 2009, good numbers of 13-24+ inch speckled trout were tagged at the Elizabeth River (Southern Branch) Hot Ditch area.

In late January through early March 2009, large speckled trout were documented to over-winter inside Rudee Inlet. Slowly swimming, almost lethargic fish from 18-28+ inches in length were regularly observed (C. Routh, W. Seymour, C. Bain, C. Warwick, personal communications). Only a few of these trout were successfully tagged as the cold water temperatures (41-50 F) and handling-tagging stress typically resulted in such fish dying if brought into a boat. Only by “free netting” such sluggish trout in a landing net, then tagging them while inside the net along side a kayak or boat, were such mortalities reduced (K. Whitley, tagger, personal communication).

Of just over 200 speckled trout recaptures during 2008, only 4 (2%) occurred in North Carolina waters, a lower number than observed in some prior years. This may be associated with the fact that the majority of tagging effort on trout during 2008 occurred in proximity to the power plants previously described. The majority of recaptures from such fish generally occur over relatively short times at large, the fish apparently remaining in the general area of the power plants. Over the course of the tagging program, there have only been a few cases of such trout recaptured in North Carolina waters.

Tautog: Through 2008 tagging effort on tautog in Virginia Bay and offshore waters has resulted in just over 14,500 fish being tagged. From this effort there have been over 2,100 recaptures reported. Tag-recapture results for tautog continue to document that the species in Virginia waters does not undergo a consistent pattern of seasonal movements inshore during spring-early summer, then the fish moving back offshore during fall-winter periods (the pattern typically observed in waters from about New York to Rhode Island). More importantly, fish tagged in Virginia bay and offshore waters show no distinctive northward migration over time. Through 2008, only 0.1% of all tautog recaptures have occurred in waters north of the Virginia-Maryland border.

Select Comments by Species

Black Drum

Compared to 2007, numbers of black drum tagged dropped significantly to just under 200 fish in 2008. There were three significant recaptures of juvenile fish in January, July, and November 2008 showing characteristic rapid movement of young fish during fall months from Virginia to North Carolina Waters (Table 5; Fig. 6). While 128 adult drum (14-55 inches total length) were tagged during the year, there were no recaptures of any adult fish during the year (Table 6; Fig. 7). Hopefully some recaptures of a few adult fish will occur during 2009.

Black Sea Bass

Significant tagging effort on black sea bass occurred at a good mix of locations during the year. The majority of tagging, and associated recaptures, occurred at several offshore sites (Chesapeake Light Tower and the Triangle Wrecks), the Chesapeake Bay Bridge Tunnel, and several fishing piers (Ocean View Fishing Pier and the Gloucester Point Fishing Pier). Most recaptures occurred over short periods of time (< 30 days) with the fish still associated with their initial tagging site. There also were some cases of fish tagged at the Chesapeake Bay Bridge Tunnel being recaptured again around the bridge-tunnel complex 60-100 days post tagging (see Species Recapture Appendix Table).

Cobia

While there were only seven recaptures of cobia during the year, as usual there were significant additions to the data set showing site fidelity of adult fish to Chesapeake Bay (Fig. 8). There were two recaptures of adult fish during June-July 2008 which had been tagged in September 2007 off the town of Cape Charles (Buoy 36A). A third 2008 bay recapture was a fish tagged in the lower bay in August 2008 (at large 1.8 years). The pattern of coastal movement year to year of adult fish was further strengthened by the recapture of an adult fish in June 2008 off Rodanthe, NC, the fish having been tagged in June 2006 at the Chesapeake Bay Bridge Tunnel. A juvenile cobia tagged during February 2008 at the Elizabeth River Hot Ditch power plant canal was recaptured and released with its tag in the canal in early May 2008.

Flounder

Compared to 2007, numbers of tagged and recaptured flounder declined somewhat during 2008. However, patterns of site fidelity to structure sites in the lower bay continued, i.e., flounder tagged at a site also recaptured at the same site within the tagging year (Fig. 9). Examples of year to year flounder site fidelity to structure sites in the lower bay are shown in Figure 10. Coastal movements of fish are illustrated in Figure 11, i.e., fish leaving the bay to spawn and over-winter on the continental shelf, then recaptured in nearshore or offshore waters extending from Rhode Island to South Carolina. Examples of movement of flounder within the lower bay and along Virginia's coastline appear within the last three pages of Table 7. Examples of flounder moving from Virginia waters to areas north and south of the state during 2007-2008 appear in Table 8. The unique, heavy tagging effort at the Gloucester Point Fishing Pier expanded the multi-year pattern for flounder associating with the pier for periods of up to 100+ days post tagging (Fig. 12-single and double recaptured fish).

Red Drum

Multiple year classes of sub-adult and adult red drum were again tagged in 2008 (Fig. 13). Patterns of sub-adult red drum movement continued showing that 1-3 year old fish in Virginia waters during spring-summer months began moving rapidly south to North Carolina waters during late summer-fall (Tables 9A and 9B; Fig. 14). One Virginia sub-adult drum tagged at the York River Power Station Hot Ditch in November 2006 (Fig. 15) was recaptured in the Charleston, SC area during February 2008 by a commercial fisherman (tag reported by a NC fish

house from a catch of drum known to come from a commercial fisherman who customarily fishes in the Charleston, SC area). Specific examples of the relatively rapid movement of sub-adult red drum from Virginia to North Carolina waters are illustrated in Table 9B (fish covering distances of 1-10+ miles per day on average). Just over two hundred adult red drum were tagged during the year; however, there were no recaptures of adult fish reported (Table 10). As a result, Tables 11A and 11B (and Fig. 16) show no new recapture data for 2008.

Sheepshead

With the fishery never really developing well, only forty sheepshead were tagged during the year (compared to 153 and 227 in 2006 and 2007, respectively). There were only two recaptures. One was rather typical, i.e., a 10 inch fish tagged inside Rudee Inlet was recaptured inside the inlet about 30 days later. However, the other recapture is one of the first examples of a sheepshead tagged in Virginia moving to North Carolina waters. Tagged at the bay's "Poquoson Artificial Reef" in September by J. Taylor, the 8-inch fish was recaptured during November 2008 at the Frisco, NC fishing pier (39 days at large).

Spadefish

As in past years, most spadefish were tagged in the bay at the Chesapeake Bay Bridge Tunnel (CBBT), York Spit, and Wolf Trap Light, or they were tagged offshore (primarily at the Chesapeake Light Tower). Recaptures followed the usual pattern with the fish caught again within days to weeks at the same location where tagged. However, there were three recaptures during 2008 of spadefish tagged during May-June 2007 (single fish tagged at the CBBT, York Spit, and Chesapeake Light Tower). The 15-inch fish tagged offshore at the Chesapeake Light Tower was recaptured at the same location during June 2008 (after 382 days at large). The 6-inch fish tagged at York Spit in 2007 was recaptured at the same tagging location during July 2008 (422 days at large). In contrast, the 15-inch spadefish tagged during 2007 at the CBBT (4th Island) was recaptured offshore during June 2008 (351 days at large) at the Chesapeake Light Tower (see Species Recapture Table, Appendix B).

Speckled Trout

During 2008, anglers tagged the greatest number of trout (3,238 fish) in the program's 14-year history. Associated recaptures also set a new calendar year record for the species (206 fish; Table 4). Much of the year's trout tagging effort occurred at the Elizabeth River's (ER) Southern Branch "Hot Ditch" area (over 1,150 fish tagged) and the Yorktown Power Station's York River (YR) "Hot Ditch" area (over 800 fish tagged). The majority of 2008 trout recaptures in the ER Hot Ditch area were from fish tagged and recaptured in the area over two distinct seasons. Fish (10-23 inches) were tagged during winter 2007/2008 (December 2007 to late March 2008) and fall 2008 (late October-mid December 2008). About 60 single tag-recapture events occurred at the site (times at large typically 1-7 weeks). There also were four, longer-term, single tag-recapture events in the Ditch area with times at large of 12 or more months. The tag-recapture data supported an overwintering pattern for some trout in the ER Ditch area during winter 2007/2008 and 2008/2009. In contrast, for the YR Hot Ditch area nearly 90 % of trout tagging occurred during fall 2008 (September-December). These 8-13 inch fish were likely "young-of-

the-year fish”(spawned from late April through August 2008). Resulting recaptures at the YR Ditch all occurred during fall 2008 (September to late November), with times at large typically 1-4 weeks. There were 76 single recapture events at the site. In addition, there were 18 multiple recapture events, nearly all of which occurred over post-tagging periods of a few days to about three weeks. Multiple recaptures consisted of 10 double recaptures of the same fish, 4 triple recaptures, 3 trout recaptured four times, and 1 trout recaptured five times at the site. Examining 2009 recapture data for the YR Ditch, only four trout were recaptured at the site during January through March 2009, fish all tagged at the location during the same period. Therefore, unlike the trout overwintering pattern observed at the ER Ditch area, tag-recapture data at the YR Ditch did not strongly support such a pattern for winter 2008/2009 (December 2008 through March 2009).

As in past years for trout tagged in the area of the two power plants, a few 2008 recaptures showed fish moving significant distances from both plants. For fish tagged during December 2007 through early March 2008 at the ER Hot Ditch area, there were six such recaptures. The recapture locations included Hampton Roads (Fort Monroe and the Monitor-Merrimac Bridge Tunnel), the lower York River, and mid-bay sites, i.e., the Tangier Island “target ships” and “South Island” (part of a MD Wildlife Management Area). The YR Hot Ditch produced three recaptures showing trout moving from the site, i.e., to the Ware River (in Mobjack Bay), to bay waters off Deale Island, MD, and to Beaufort Inlet in North Carolina. Regarding Virginia-tagged trout demonstrating seasonal migration to North Carolina, four such trout were recaptured in Carolina waters during January, April-May, and November 2008. These 9-13 inch fish were tagged in bay waters during October and December 2007, and September 2008 (Table 12 and Fig. 17). These four recaptures represented only two percent of all 2008 trout recaptures (206 fish). However, in both 2006 and 2007 higher proportions of Virginia-tagged trout were recaptured in North Carolina, i.e., 17 % (8 of 47 recaptures) and 7 % (5 of 68 recaptures), respectively.

Tautog

As in past years, tautog tag-recapture results during 2008 showed the fish largely remaining associated with the structure sites in the lower bay and offshore where the fish were tagged. Occasional short distance movements of a few fish were observed, but again there were no recaptures of Virginia tagged fish occurring north of the mouth of Delaware Bay and associated offshore waters.

Triggerfish

The majority of tagging occurred at wrecks off Cape Charles, Cape Henry, and “off the Virginia Beach Oceanfront.” There was no significant movement of recaptured fish observed; however, as some recapture locations are vague (e.g. wreck off Cape Henry, unidentified wreck off Virginia Beach, etc.), short distance movement among wrecks in proximity to one another may have occurred. Many recaptures occurred with 0-10 days of tagging; however there were cases where triggerfish were recaptured at their tagging site up to 23-30 days post tagging.

TABLES

Table 1A - Virginia Game Fish Tagging Program Annual Tagging Awards 2006 – 2008.

Category	2006		2007		2008	
Most Recaptured Fish (total)	Ed Shepherd	348	Ed Shepherd	746	Ed Shepherd	794
Most Tagged Fish (total)	Ed Shepherd	3591	Ed Shepherd	4323	Ed Shepherd	4030
Most Tagged Black Drum	Dennis Cline	61	Ed Shepherd	267	Doug Wehner	12
Most Tagged Black Sea Bass	Tracy Boyd	243	Rob Collins	335	Susan Harrell	396
Most Tagged Cobia	Jim Jenrette	28	Jim Jenrette	21	James Johnson	12
Most Tagged Flounder	Ed Shepherd	1513	Ed Shepherd	2398	Ed Shepherd	1734
Most Tagged Gray Triggerfish	Robert W. Collins	38	Robert W. Collins	145	Robert Collins	96
Most Tagged Red Drum	Ed Shepherd	1608	Ed Shepherd	1061	Ed Shepherd	1448
Most Tagged Sheepshead	Robert W. Collins	28	Ed Shepherd	202	Kevin Whitley	16
Most Tagged Spadefish	Robert S. Holtz	42	Dan Peters	69	Kevin Whitley	150
Most Tagged Speckled Trout	Ed Shepherd	350	Ed Lawrence	392	Ed Shepherd	630
Most Tagged Tautog	Bill Knapp	314	Bill Knapp	174	Rob Collins	301

Table 1B. Virginia Game Fish Tagging Program Annual Tagging Awards 2007-2008 (Winner & Runner-Up).

Award Category	Winner/Runner-Up 2007	Total 2007	Winner/Runner-Up 2008	Total 2008
Most Recaptured Fish	Ed Shepherd	746	Ed Shepherd	794
	Scott Vinson	132	Rob Collins	109
Most Tagged Fish	Ed Shepherd	4323	Ed Shepherd	4030
	Scott Vinson	1288	Rob Collins	936
Most Tagged Black Drum	Ed Shepherd	267	Doug Wehner	12
	James Johnson	53	David Griffith	10
Most Tagged Black Sea Bass	Rob Collins	335	Susan Harrell	396
	Ed Shepherd	224	Rob Collins	389
Most Tagged Cobia	Jim Jenrette	21	James Johnson	9
	Bill Knapp	11	Brandon Poulter	7
Most Tagged Flounder	Ed Shepherd	2398	Ed Shepherd	1734
	Scott Vinson	1279	Scott Vinson	634
Most Tagged Gray Triggerfish	Robert W. Collins	145	Rob Collins	96
	David Cohn	62	David Barnhart	59
Most Tagged Red Drum	Ed Shepherd	1061	Ed Shepherd	1448
	Ed Lawrence	198	Kevin Whitley	365
Most Tagged Sheepshead	Ed Shepherd	202	Kevin Whitley	16
	Mike Perron	7	David Griffith	7
Most Tagged Spadefish	Dan Peters	69	Kevin Whitley	150
	Brandon Bartlett	61	Gil Wilson	30
Most Tagged Speckled Trout	Ed Lawrence	392	Ed Shepherd	630
	Kevin Whitley	183	Sheldon Arey	423
Most Tagged Tautog	Bill Knapp	174	Rob Collins	301
	Rob Collins	124	Bill Knapp	81

Table 2A: Anglers Awarded Conservation Certificates for Tagging 25 or more Fish During 2008 (by last name).

Tagger		Black	Black Sea	Cobia	Flounder	Red	Sheeps	Spade-	Speckled	Tautog	Trigger-	Total
Last Name	First Name	Drum	Bass			Drum	head	fish	Trout		fish	
Agee	David	0	7	0	75	0	0	0	0	7	0	89
Arey	Sheldon	2	18	0	64	45	0	1	423	0	0	553
Backowski	Andy	0	1	0	13	11	0	0	0	0	0	25
Barnhart	David	3	4	5	8	11	0	0	58	6	59	154
Bartlett	Brandon	5	0	0	8	37	4	0	37	0	0	91
Berry	Lester	1	12	1	252	22	0	0	5	0	0	293
Bois	Bob	0	0	0	29	0	0	0	0	0	0	29
Boyd	Tracy	0	49	0	9	7	0	0	38	0	0	103
Brigantic	Anthony	0	0	0	45	0	0	0	0	0	0	45
Bunnell	Al	0	2	0	15	24	0	0	16	0	0	57
Cannon ^b	Tim	3	21	0	9	0	0	0	2	0	0	35
Capps	Ben	0	56	0	19	2	0	0	6	0	0	83
Casady	Doug	7	0	0	20	17	0	0	5	0	0	49
Cohn	David	9	22	0	14	7	0	19	5	45	10	131
Collins	Rob	1	389	0	98	42	1	1	7	301	96	936
Dabul	Jorge	0	3	0	27	6	0	0	0	0	0	36
Dameron ^b	Will	0	19	0	15	4	0	0	29	0	0	67
Davis	Jeff	0	0	0	35	0	0	0	0	0	0	35
Diggs	Elmer	7	29	0	9	10	0	0	0	6	6	67
Donnell	Charles	0	0	0	44	0	0	0	0	0	0	44
Duell	Jay	4	55	2	379	57	1	0	11	3	1	513
Duell	Jim	0	47	0	261	41	0	0	10	1	0	360
Duke	Ron	0	0	0	3	2	0	0	34	0	0	39
Elliott	Dorothy	0	0	0	140	0	0	0	0	0	0	140
Embry	Thomas	1	37	0	13	75	0	0	35	0	0	161
Freeman	Craig	0	0	0	62	57	0	0	3	4	0	126
Goggin	Mary	0	37	0	76	1	0	0	1	0	0	115
Goggin	Rory	0	42	0	63	1	0	1	1	0	0	108
Green	Hugh	0	23	0	43	17	0	0	16	0	0	99
Grenier	Bryan	0	26	0	0	0	0	0	0	0	0	26
Griffith	David	10	39	0	109	58	7	0	55	1	0	279
Guyot	Rick	2	26	1	77	43	1	2	65	12	1	230
Hampton	Brian	0	5	0	65	1	0	0	0	0	0	71

Table 2A: (cont.) Anglers Awarded Conservation Certificates for Tagging 25 or more Fish During 2008 (by last name).

Tagger		Black	Black Sea	Cobia	Flounder	Red	Sheeps	Spade-	Speckled	Tautog	Trigger-	Total
Last Name	First Name	Drum	Bass			Drum	head	fish	Trout		fish	
Handforth	Mike	0	3	0	96	0	0	0	0	0	0	99
Hardisty ^b	Marvin	0	0	1	7	19	0	0	63	0	0	90
Harrell	Susan	0	396	0	57	0	0	0	4	0	0	457
Harrell	Frank	0	72	0	11	0	0	0	0	0	0	83
Harris	Dick	0	55	0	6	1	0	0	0	0	0	62
Head	Gerald	0	0	0	3	32	0	0	5	0	0	40
Heinz	Tommy	0	0	0	24	0	0	0	3	0	0	27
Holtz	Rob	8	0	1	64	45	0	0	0	37	1	156
Honeycutt	Brandon	6	3	0	2	4	0	3	16	17	0	51
Hughes	Lee	0	4	0	44	1	0	0	1	0	0	50
Irwin	Lee	0	0	0	88	0	0	0	0	0	0	88
Johnson	James	3	237	9	387	57	4	18	2	0	2	719
Jordan	Trafton	1	0	0	3	98	0	0	31	0	0	133
Knapp	Bill	9	95	3	40	211	0	4	23	81	2	468
Kumjian	Andrew	0	1	0	64	51	2	0	7	0	0	125
Lawrence	Ed	1	7	0	89	160	0	0	244	0	0	500
Lee	Bob	0	8	0	16	8	0	0	0	0	0	32
Leiffer	James	0	0	1	166	6	0	0	0	13	0	186
Lucy ^b	Jon	12	6	16	28	109	0	0	372	0	0	542
Marquedant	Matthew	0	3	0	42	23	0	1	14	0	0	83
McCausey	Roy	0	1	0	44	0	0	0	12	2	0	59
Meredith	Scott	0	15	0	31	38	0	0	11	1	0	96
Miller	Don	0	0	0	3	44	0	0	20	0	0	67
Neill	Ken	9	1	0	0	1	0	0	0	33	0	44
Osborne	Kendall	0	0	0	0	32	0	0	40	0	0	72
Ottarson	Mark	0	0	0	0	0	0	0	29	0	0	29
Perron	Mike	1	161	0	116	1	0	0	0	41	21	341
Peters	Dan	2	0	0	0	2	0	4	32	0	0	40
Poulter	Brandon	3	0	7	19	77	0	0	5	0	0	111
Purcell	Doug	1	1	0	22	43	0	2	18	0	0	87
Ringer	Karl	0	0	0	72	1	0	0	0	15	0	88
Robinson ^b	Jim	2	42	0	77	51	0	12	59	2	0	245
Rosenbaum	Ben	0	0	0	33	1	0	0	6	0	0	40

Table 2A: (cont.) Anglers Awarded Conservation Certificates for Tagging 25 or more Fish During 2008 (by last name).

Tagger		Black	Black Sea	Cobia	Flounder	Red	Sheeps	Spade-	Speckled	Tautog	Trigger-	Total
Last Name	First Name	Drum	Bass			Drum	head	fish	Trout		fish	
Routh	Corey	0	0	0	11	32	0	0	2	0	0	45
Russ	Mike	0	167	1	76	71	0	0	21	0	0	336
Sebra	Marshall	0	0	0	9	6	0	4	9	0	0	28
Seeloff	Jared	0	2	0	23	6	0	0	2	0	0	33
Shepherd	Ed	9	176	3	1734	1448	0	0	660	0	0	4030
Simons, Jr.	Joe	1	4	0	22	3	0	0	39	0	0	69
Smith ^b	Donnie	0	0	1	6	63	0	0	217	0	0	287
Spruill ^b	William	0	0	0	145	0	0	0	4	0	0	149
Stitcher	Lance	0	1	0	50	0	0	0	0	10	0	61
Stumphauzer	Ed	0	3	0	32	0	0	0	25	0	0	60
Taylor	John	0	28	0	249	152	3	11	82	0	1	526
Taylor	Danny	0	3	0	186	1	0	2	0	5	0	197
Vinson	Scott	2	3	0	634	45	1	0	32	0	0	717
Walker	Steve	7	13	2	116	144	0	0	4	0	0	286
Waters	Timothy	0	23	0	73	18	0	0	16	0	0	130
Watkins	Brian	0	1	0	16	14	0	0	6	0	0	37
Wehner	Doug	12	0	0	21	4	0	0	4	0	0	41
Whitley	Kevin	8	29	1	214	365	16	150	55	55	5	898
Wilson	Gil	0	0	0	0	0	0	30	25	0	0	55
Winn	Michael	0	38	0	14	2	0	0	7	0	0	61
Wojcik	George	0	8	0	137	261	0	0	78	0	0	484
Yavner	Rick	0	16	0	120	5	0	0	21	0	0	162

^a Species and "total" counts represent actual numbers of fish tagged (i.e., any "double tagged fish" counts only as "one" fish).

^b Total counts do not include a few gray trout tagged "experimentally" by select anglers.

Table 2B: Anglers Awarded Conservation Certificates for Tagging 25 or more Fish During 2008 (by total fish tagged)^a.

Tagger		Black	Black Sea	Cobia	Flounder	Red	Sheeps	Spade-	Speckled	Tautog	Trigger-	Total
Last Name	First Name	Drum	Bass			Drum	head	fish	Trout		fish	
Shepherd	Ed	9	176	3	1734	1448	0	0	660	0	0	4030
Collins	Rob	1	389	0	98	42	1	1	7	301	96	936
Whitley	Kevin	8	29	1	214	365	16	150	55	55	5	898
Johnson	James	3	237	9	387	57	4	18	2	0	2	719
Vinson	Scott	2	3	0	634	45	1	0	32	0	0	717
Arey	Sheldon	2	18	0	64	45	0	1	423	0	0	553
Lucy ^b	Jon	12	6	16	28	109	0	0	372	0	0	542
Taylor	John	0	28	0	249	152	3	11	82	0	1	526
Duell	Jay	4	55	2	379	57	1	0	11	3	1	513
Lawrence	Ed	1	7	0	89	160	0	0	244	0	0	500
Wojcik	George	0	8	0	137	261	0	0	78	0	0	484
Knapp	Bill	9	95	3	40	211	0	4	23	81	2	468
Harrell	Susan	0	396	0	57	0	0	0	4	0	0	457
Duell	Jim	0	47	0	261	41	0	0	10	1	0	360
Perron	Mike	1	161	0	116	1	0	0	0	41	21	341
Russ	Mike	0	167	1	76	71	0	0	21	0	0	336
Berry	Lester	1	12	1	252	22	0	0	5	0	0	293
Smith ^b	Donnie	0	0	1	6	63	0	0	217	0	0	287
Walker	Steve	7	13	2	116	144	0	0	4	0	0	286
Griffith	David	10	39	0	109	58	7	0	55	1	0	279
Robinson ^b	Jim	2	42	0	77	51	0	12	59	2	0	245
Guyot	Rick	2	26	1	77	43	1	2	65	12	1	230
Taylor	Danny	0	3	0	186	1	0	2	0	5	0	197
Leiffer	James	0	0	1	166	6	0	0	0	13	0	186
Yavner	Rick	0	16	0	120	5	0	0	21	0	0	162
Embry	Thomas	1	37	0	13	75	0	0	35	0	0	161
Holtz	Rob	8	0	1	64	45	0	0	0	37	1	156
Barnhart	David	3	4	5	8	11	0	0	58	6	59	154
Spruill ^b	William	0	0	0	145	0	0	0	4	0	0	149
Elliott	Dorothy	0	0	0	140	0	0	0	0	0	0	140
Jordan	Trafton	1	0	0	3	98	0	0	31	0	0	133
Cohn	David	9	22	0	14	7	0	19	5	45	10	131

Table 2B: (cont.) Anglers Awarded Conservation Certificates for Tagging 25 or more Fish During 2008 (by total fish tagged)^a.

Tagger		Black	Black Sea	Cobia	Flounder	Red	Sheeps	Spade-	Speckled	Tautog	Trigger-	Total
Last Name	First Name	Drum	Bass			Drum	head	fish	Trout		fish	
Waters	Timothy	0	23	0	73	18	0	0	16	0	0	130
Freeman	Craig	0	0	0	62	57	0	0	3	4	0	126
Kumjian	Andrew	0	1	0	64	51	2	0	7	0	0	125
Goggin	Mary	0	37	0	76	1	0	0	1	0	0	115
Poulter	Brandon	3	0	7	19	77	0	0	5	0	0	111
Goggin	Rory	0	42	0	63	1	0	1	1	0	0	108
Boyd	Tracy	0	49	0	9	7	0	0	38	0	0	103
Green	Hugh	0	23	0	43	17	0	0	16	0	0	99
Handforth	Mike	0	3	0	96	0	0	0	0	0	0	99
Meredith	Scott	0	15	0	31	38	0	0	11	1	0	96
Bartlett	Brandon	5	0	0	8	37	4	0	37	0	0	91
Hardisty ^b	Marvin	0	0	1	7	19	0	0	63	0	0	90
Agee	David	0	7	0	75	0	0	0	0	7	0	89
Ringer	Karl	0	0	0	72	1	0	0	0	15	0	88
Irwin	Lee	0	0	0	88	0	0	0	0	0	0	88
Purcell	Doug	1	1	0	22	43	0	2	18	0	0	87
Capps	Ben	0	56	0	19	2	0	0	6	0	0	83
Harrell	Frank	0	72	0	11	0	0	0	0	0	0	83
Marquedant	Matthew	0	3	0	42	23	0	1	14	0	0	83
Osborne	Kendall	0	0	0	0	32	0	0	40	0	0	72
Hampton	Brian	0	5	0	65	1	0	0	0	0	0	71
Simons, Jr.	Joe	1	4	0	22	3	0	0	39	0	0	69
Dameron ^b	Will	0	19	0	15	4	0	0	29	0	0	67
Diggs	Elmer	7	29	0	9	10	0	0	0	6	6	67
Miller	Don	0	0	0	3	44	0	0	20	0	0	67
Harris	Dick	0	55	0	6	1	0	0	0	0	0	62
Stitcher	Lance	0	1	0	50	0	0	0	0	10	0	61
Winn	Michael	0	38	0	14	2	0	0	7	0	0	61
Stumphauzer	Ed	0	3	0	32	0	0	0	25	0	0	60
McCausey	Roy	0	1	0	44	0	0	0	12	2	0	59
Bunnell	Al	0	2	0	15	24	0	0	16	0	0	57
Wilson	Gil	0	0	0	0	0	0	30	25	0	0	55
Honeycutt	Brandon	6	3	0	2	4	0	3	16	17	0	51

Table 2B: (cont.) Anglers Awarded Conservation Certificates for Tagging 25 or more Fish During 2008 (by total fish tagged)^a.

Tagger		Black	Black Sea	Cobia	Flounder	Red	Sheeps	Spade-	Speckled	Tautog	Trigger-	Total
Last Name	First Name	Drum	Bass			Drum	head	fish	Trout		fish	
Hughes	Lee	0	4	0	44	1	0	0	1	0	0	50
Casady	Doug	7	0	0	20	17	0	0	5	0	0	49
Brigantic	Anthony	0	0	0	45	0	0	0	0	0	0	45
Routh	Corey	0	0	0	11	32	0	0	2	0	0	45
Donnell	Charles	0	0	0	44	0	0	0	0	0	0	44
Neill	Ken	9	1	0	0	1	0	0	0	33	0	44
Wehner	Doug	12	0	0	21	4	0	0	4	0	0	41
Head	Gerald	0	0	0	3	32	0	0	5	0	0	40
Peters	Dan	2	0	0	0	2	0	4	32	0	0	40
Rosenbaum	Ben	0	0	0	33	1	0	0	6	0	0	40
Duke	Ron	0	0	0	3	2	0	0	34	0	0	39
Watkins	Brian	0	1	0	16	14	0	0	6	0	0	37
Dabul	Jorge	0	3	0	27	6	0	0	0	0	0	36
Cannon ^b	Tim	3	21	0	9	0	0	0	2	0	0	35
Davis	Jeff	0	0	0	35	0	0	0	0	0	0	35
Seeloff	Jared	0	2	0	23	6	0	0	2	0	0	33
Lee	Bob	0	8	0	16	8	0	0	0	0	0	32
Bois	Bob	0	0	0	29	0	0	0	0	0	0	29
Ottarson	Mark	0	0	0	0	0	0	0	29	0	0	29
Sebra	Marshall	0	0	0	9	6	0	4	9	0	0	28
Heinz	Tommy	0	0	0	24	0	0	0	3	0	0	27
Grenier	Bryan	0	26	0	0	0	0	0	0	0	0	26
Backowski	Andy	0	1	0	13	11	0	0	0	0	0	25

^a Species and "total" counts represent actual numbers of fish tagged (i.e., any "double tagged fish" counts only as "one" fish).

^b Total counts do not include a few gray trout tagged "experimentally" by select anglers.

Table 3A: Anglers Having 5 or More Fish Recaptured During 2008 (by last name).

Tagger		Black	Black Sea	Cobia	Flounder	Red	Sheeps-	Spade-	Speckled	Tautog	Trigger-	Total
Last Name	First Name	Drum	Bass			Drum	head	fish	Trout		fish	
Agee	David	0	1	0	2	0	0	0	0	7	0	10
Arey	Sheldon	0	6	0	0	2	0	0	4	0	0	12
Arnold	Bret	0	4	0	0	0	0	0	0	2	0	6
Barnhart	David	0	5	0	1	2	0	0	3	1	30	42
Bartlett	Brandon	1	0	0	1	10	0	1	4	0	0	17
Berry	Lester	0	1	0	17	1	0	0	0	0	0	19
Boyd	Tracy	0	5	0	2	1	0	0	0	0	0	8
Braddy	Ken	0	0	0	0	4	0	0	1	0	0	5
Brigantic	Anthony	0	0	0	5	0	0	0	0	0	0	5
Bunnell	Al	0	1	0	0	4	0	0	0	0	0	5
Cohn	David	0	2	0	0	0	0	1	0	16	5	24
Collins	Rob	0	37	0	12	3	0	1	0	32	24	109
Diggs	Elmer	0	4	0	0	1	0	0	0	1	2	8
Duell	Jay	0	5	0	37	4	0	0	1	1	0	48
Duell	Jim	0	4	0	26	2	0	0	0	0	0	32
Elliott	Dorothy	0	0	0	6	0	0	0	0	0	0	6
Embry	Thomas	0	1	0	0	4	0	0	1	0	0	6
Freeman	Craig	0	0	0	3	4	0	0	0	0	0	7
Goggin	Rory	0	1	0	7	0	0	0	0	0	0	8
Goggin	Mary	0	1	0	6	0	0	0	0	0	0	7
Green	Hugh	0	1	0	6	3	0	0	3	0	0	13
Griffith	David	0	5	0	2	1	0	0	0	0	0	8
Guyot	Rick	0	3	0	9	3	0	0	0	1	1	17
Handforth	Mike	0	2	0	6	0	0	0	0	0	0	8
Hardisty	Marvin	0	0	0	0	3	0	0	3	0	0	6
Harrell	Susan	0	21	0	5	0	0	0	1	0	0	27
Harrell	Frank	0	6	0	0	0	0	0	0	6	0	12
Henderson	Brian	0	0	0	6	0	0	0	0	0	0	6
Holtz	Rob	0	0	0	4	0	0	0	0	3	0	7
Honeycutt	Brandon	0	1	0	0	0	0	1	2	3	0	7
Hughes	Lee	0	0	0	5	0	0	0	0	0	0	5
Johnson	James	0	14	0	57	1	0	0	0	0	0	72
Jordan	Trafton	0	0	0	0	4	0	0	2	0	0	6

Table 3A: (cont.) Anglers Having 5 or More Fish Recaptured During 2008 (by last name).

Tagger		Black Drum	Black Sea Bass	Cobia	Flounder	Red Drum	Sheeps-head	Spade-fish	Speckled Trout	Tautog	Trigger-fish	Total
Last Name	First Name											
Knapp	Bill	0	15	1	1	4	0	0	2	17	1	41
Kumjian	Andrew	0	0	0	15	5	0	0	0	0	0	20
Lawrence	Ed	0	0	0	11	17	0	0	20	0	0	48
Leiffer	James	0	0	0	6	0	0	0	0	0	0	6
Lowry	Terry	0	0	0	0	0	0	0	0	5	0	5
Lucy	Jon	1	0	2	4	26	0	0	32	0	0	65
Marquedant	Matthew	0	5	0	11	2	0	0	0	0	0	18
Meredith	Scott	0	2	0	2	2	0	0	1	0	0	7
Miller	Don	0	0	0	2	2	0	0	1	0	0	5
Neill	Ken	0	0	0	0	0	0	0	0	12	0	12
Perron	Mike	0	20	0	6	0	0	0	0	8	9	43
Poulter	Brandon	0	0	0	6	9	0	0	0	0	0	15
Purcell	Doug	0	0	0	1	3	0	0	1	0	0	5
Ringer	Karl	0	0	0	6	0	0	0	0	0	0	6
Robinson	Jim	0	5	0	4	4	0	5	6	4	0	28
Russ	Mike	0	50	0	18	4	0	0	1	0	0	73
Seeloff	Jared	0	0	0	5	1	0	0	0	0	0	6
Shepherd	Ed	1	71	0	335	289	0	0	98	0	0	794
Simons, Jr.	Joe	0	1	0	3	0	0	0	2	0	0	6
Smith	Donnie	0	0	0	1	8	0	0	6	0	0	15
Spurill	William	0	0	0	43	1	0	0	0	0	0	44
Stumphauzer	Ed	0	0	0	4	0	0	0	2	0	0	6
Taylor	John	0	1	0	8	12	1	4	14	0	0	40
Vinson	Scott	0	0	0	42	6	0	0	0	0	0	48
Walker	Steve	0	2	0	10	7	0	0	0	0	0	19
Waters	Timothy	0	4	0	3	0	0	0	0	0	0	7
Whitley	Kevin	0	8	0	34	23	1	9	2	7	1	85
Wilson	Gil	0	0	0	0	0	0	18	0	0	0	18
Wojcik	George	0	1	0	11	25	0	0	0	0	0	37
Yavner	Rick	0	0	0	6	0	0	0	0	0	0	6

Table 3B: Anglers Having 5 or More Fish Recaptured During 2008 (by total fish recaptured).

Tagger		Black	Black Sea	Cobia	Flounder	Red	Sheeps-	Spade-	Speckled	Tautog	Trigger-	Total
Last Name	First Name	Drum	Bass			Drum	head	fish	Trout		fish	
Shepherd	Ed	1	71	0	335	289	0	0	98	0	0	794
Collins	Rob	0	37	0	12	3	0	1	0	32	24	109
Whitley	Kevin	0	8	0	34	23	1	9	2	7	1	85
Russ	Mike	0	50	0	18	4	0	0	1	0	0	73
Johnson	James	0	14	0	57	1	0	0	0	0	0	72
Lucy	Jon	1	0	2	4	26	0	0	32	0	0	65
Duell	Jay	0	5	0	37	4	0	0	1	1	0	48
Lawrence	Ed	0	0	0	11	17	0	0	20	0	0	48
Vinson	Scott	0	0	0	42	6	0	0	0	0	0	48
Spruill	William	0	0	0	43	1	0	0	0	0	0	44
Perron	Mike	0	20	0	6	0	0	0	0	8	9	43
Barnhart	David	0	5	0	1	2	0	0	3	1	30	42
Knapp	Bill	0	15	1	1	4	0	0	2	17	1	41
Taylor	John	0	1	0	8	12	1	4	14	0	0	40
Wojcik	George	0	1	0	11	25	0	0	0	0	0	37
Duell	Jim	0	4	0	26	2	0	0	0	0	0	32
Robinson	Jim	0	5	0	4	4	0	5	6	4	0	28
Harrell	Susan	0	21	0	5	0	0	0	1	0	0	27
Cohn	David	0	2	0	0	0	0	1	0	16	5	24
Kumjian	Andrew	0	0	0	15	5	0	0	0	0	0	20
Berry	Lester	0	1	0	17	1	0	0	0	0	0	19
Walker	Steve	0	2	0	10	7	0	0	0	0	0	19
Marquedant	Matthew	0	5	0	11	2	0	0	0	0	0	18
Wilson	Gil	0	0	0	0	0	0	18	0	0	0	18
Bartlett	Brandon	1	0	0	1	10	0	1	4	0	0	17
Guyot	Rick	0	3	0	9	3	0	0	0	1	1	17
Poulter	Brandon	0	0	0	6	9	0	0	0	0	0	15
Smith	Donnie	0	0	0	1	8	0	0	6	0	0	15
Green	Hugh	0	1	0	6	3	0	0	3	0	0	13
Arey	Sheldon	0	6	0	0	2	0	0	4	0	0	12
Harrell	Frank	0	6	0	0	0	0	0	0	6	0	12
Neill	Ken	0	0	0	0	0	0	0	0	12	0	12
Agee	David	0	1	0	2	0	0	0	0	7	0	10

Table 3B: (cont.) Anglers Having 5 or More Fish Recaptured During 2008 (by total fish tagged).

Tagger		Black Drum	Black Sea Bass	Cobia	Flounder	Red Drum	Sheeps-head	Spade-fish	Speckled Trout	Tautog	Trigger-fish	Total
Last Name	First Name											
Boyd	Tracy	0	5	0	2	1	0	0	0	0	0	8
Diggs	Elmer	0	4	0	0	1	0	0	0	1	2	8
Goggin	Rory	0	1	0	7	0	0	0	0	0	0	8
Griffith	David	0	5	0	2	1	0	0	0	0	0	8
Handforth	Mike	0	2	0	6	0	0	0	0	0	0	8
Freeman	Craig	0	0	0	3	4	0	0	0	0	0	7
Goggin	Mary	0	1	0	6	0	0	0	0	0	0	7
Holtz	Rob	0	0	0	4	0	0	0	0	3	0	7
Honeycutt	Brandon	0	1	0	0	0	0	1	2	3	0	7
Meredith	Scott	0	2	0	2	2	0	0	1	0	0	7
Waters	Timothy	0	4	0	3	0	0	0	0	0	0	7
Arnold	Bret	0	4	0	0	0	0	0	0	2	0	6
Elliott	Dorothy	0	0	0	6	0	0	0	0	0	0	6
Embry	Thomas	0	1	0	0	4	0	0	1	0	0	6
Hardisty	Marvin	0	0	0	0	3	0	0	3	0	0	6
Henderson	Brian	0	0	0	6	0	0	0	0	0	0	6
Jordan	Trafton	0	0	0	0	4	0	0	2	0	0	6
Leiffer	James	0	0	0	6	0	0	0	0	0	0	6
Ringer	Karl	0	0	0	6	0	0	0	0	0	0	6
Seeloff	Jared	0	0	0	5	1	0	0	0	0	0	6
Simons, Jr.	Joe	0	1	0	3	0	0	0	2	0	0	6
Stumphauzer	Ed	0	0	0	4	0	0	0	2	0	0	6
Yavner	Rick	0	0	0	6	0	0	0	0	0	0	6
Braddy	Ken	0	0	0	0	4	0	0	1	0	0	5
Brigantic	Anthony	0	0	0	5	0	0	0	0	0	0	5
Bunnell	Al	0	1	0	0	4	0	0	0	0	0	5
Hughes	Lee	0	0	0	5	0	0	0	0	0	0	5
Lowry	Terry	0	0	0	0	0	0	0	0	5	0	5
Miller	Don	0	0	0	2	2	0	0	1	0	0	5
Purcell	Doug	0	0	0	1	3	0	0	1	0	0	5

Table 4. Tagged and Recaptured Fish by Year and Overall Recapture Rates by Species (2006-2008).

Species	No. Tagged				No. Recaptured ¹				Overall Recapture Rate		
	2006	2007	2008	1995-2008	2006	2007	2008	1995-2008	2006	2007	2008
Black Drum	289	542	187	3,512	29	37	6	164	5.4%	4.8%	4.7%
Black Sea Bass	1,264	1,865	2,654	21,334	267	286	318	2,881	15.2%	13.7%	13.5%
Cobia²	134	59	60	1,190	22	12	7	153	13.2%	12.9%	12.9%
Flounder	6,210	8,582	7,834	61,463	797	1,030	850	5,514	10.0%	8.7%	9.0%
Gray Triggerfish	79	262	212	1,134	32	47	74	237	29.1%	17.7%	20.9%
Red Drum³	4,057	3,026	4,477	24,536	348	513	493	2,451	10.3%	9.8%	10.0%
Sheepshead	153	227	40	1,136	0	41	2	76	5.1%	6.8%	6.7%
Spadefish	219	433	275	5,259	28	71	41	550	10.6%	10.2%	10.5%
Speckled Trout⁴	1,830	2,527	3,238	17,191	47	68	206	516	2.7%	2.2%	3.0%
Tautog	2,068	951	743	14,567	318	233	142	2,258	15.8%	15.3%	15.5%
Grand Total	16,303	18,474	19,720	151,322	1,888	2,338	2,139	14,800	9.6%	9.0%	9.8%

¹ - Recapture counts include multiple recaptures of individual fish, events of some significance particularly for black sea bass, flounder and spadefish.

² - 2006 totals do not include 155 and 186 tagged juvenile cobia, respectively, released from VIMS Finfish Aquaculture Facility.

³ - 2007 totals include 294 double tagged and 11 triple tagged sub-adult red drum and 2008 totals include 396 double tagged drum for tag retention field trials.

⁴ - 2007 totals include 320 double tagged and 19 triple tagged trout and 2008 totals include 236 double tagged trout for tag retention field trials.

Table 5. Juvenile Black Drum Movement from Virginia to North Carolina Waters (1995-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Approx. Movement Period	Virginia Tag Location	Recap Date	North Carolina Recapture Location	Days Out	Approx. Straight Line Dist. (mi.)	Miles Per Day
A. Paschall	3439	11.9	10/7/95	Oct. '95	Rudee Inlet	11/1/95	Nags Head, NC	25	67	2.7
A. Paschall	16274	10.0	10/23/95	Oct. '95	Rudee Inlet	11/3/95	Nags Head, NC	11	67	6.1
A. Paschall	16408	9.0	10/1/96	Oct. '96	Rudee Inlet	10/11/96	Atlantic Beach, NC	10	204	20.4
A. Paschall	39496	9.25	9/18/98	Sept. '98	Rudee Inlet	10/4/98	Oregon Inlet, NC	18	75	4.2
D. Wehner	35250	8.5	10/14/98	Oct. '98	Sandbridge Surf	10/15/98	Nags Head Pier, NC	1	62	62
R. Collins	48260	8.0	9/26/98	Sept. '98	Rudee Inlet	10/28/99	Topsail Island, NC	397	248	0.6
G. Edinger	32376	18.0	11/10/99	Fall 99?	Cape Henry Wreck	6/7/00	Oregon Inlet, NC	210	84	0.4
R. Holtz	88447	7.0	9/21/01	Sept. '01	Va. Beach Surf	10/5/01	Pamlico Sound, NC	14	139	9.9
R. Holtz	49422	7.0	9/22/01	Sept. '01	Va. Beach Surf	9/27/01	Nags Head Pier, NC	5	67	13.4
R. Holtz	67637	9.0	9/22/01	Sept. '01	Va. Beach Surf	9/27/01	Roanoke Sound, NC	5	90	18.0
R. Holtz	88403	8.0	9/21/01	Fall '01	Va. Beach Surf	8/31/02	Albemarle Sound, NC	344	100	0.3

Table 5. (cont.) Juvenile Black Drum Movement from Virginia to North Carolina Waters (1995-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Approx. Movement Period	Virginia Tag Location	Recap Date	North Carolina Recapture Location	Days Out	Approx. Straight Line Dist. (mi.)	Miles Per Day
G. Rigo	102622	12.0	10/26/02	Oct. '02	Buckroe Beach Pier	10/31/02	Cape Point, NC	5	142	28.4
D. Wehner	111444	8.0	9/27/03	Oct. '03	Va. Beach Surf	10/17/03	Bogue In. Pier Emerald Isle, NC	20	152	7.6
B. Lee	139973	7.5	10/4/05	Oct. '05	Lynnhaven River	10/27/05	Avalon Pier Kill Devil Hills, NC	23	73	3.2
J. Lucy	126433	9.0	10/21/05	Fall '06	Lynnhaven In-Narrows	7/28/06	Bogue Sound Swansboro, NC	280	235	0.8
E. Shepherd	88313	7.5	10/5/07	Oct. '07	York River Hot Ditch	10/17/07	Kitty Hawk, NC	12	114	9.5
D. Wehner	63502	8.0	10/6/07	Oct. '07	Sandbridge Surf	10/11/07	Nags Head, NC	5	60	12.0
E. Shepherd	188164	8.5	10/1/07	Fall '07	York River Hot Ditch	1/12/08	Neuse River, NC	103	191	1.9
J. Johnson	179212	9.0	10/3/07	Fall '08	Va. Beach Surf	7/22/08	Albemarle Sound, NC	293	100	0.3
T. Cannon	218853	10.0	10/14/08	Oct. '08	Sandbridge LIFP	11/2/08	Masonboro In, NC	19	221	11.6

Table 6. Adult Black Drum Movement and Site Fidelity Within Year Tagged (and year to year) Within VA; Also Movement from VA to NC Waters (1997-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Recap Date	Recapture Location	Days Out	Remarks & Recap Angler
Tagged Virginia - Recaptured Virginia								
M. Firestone	23953	16	3/18/97	Rudee Inlet, Owl Creek	3/21/97	Rudee Inlet, Owl Creek ('97)	16	Rel W/TAG - W. Holloman
C. Brown	37251	48	8/9/97	Chesapeake Bay Bridge Tunnel (CBBT) 2 nd Island	5/25/98	CBBT 2 nd Island ('97 to '98)	289	Killed – K. Mallard, 46.5 in TL
C. Brown	37263	50.5	8/15/97	CBBT 2 nd Island	8/24/97	CBBT 2 nd Island ('97)	9	Killed – T. Mears, 50 in TL
C. Harrison	10325	49	8/29/97	CBBT 1 st Island	6/21/98	CBBT 1 st Island ('97 to '98)	296	Rel w/o tag – O. Davis, 47 in est.
C. Paige	10583	48.75	8/30/97	CBBT 1st. Island	7/25/99	CBBT 1 st Island ('97 to '99)	694	Rel w/o tag - G. Taylor, 47 in TL
A. Paschall	29495	18.0	10/25/97	Rudee Inlet	3/24/98	Rudee Inlet ('97 to '98)	150	Rel W/TAG - W. Seymour, 20 in est.
M. Perron	37472	45	5/28/98	CBBT 2 nd Island	5/20/99	Cabbage Patch - C18 Bouy ('98 to '99)	357	Rel w/n tag DS27589 - R. Willett, 46 in TL
R. Bartlett	55448	15	8/1/99	James River Bridge	8/26/99	James River Bridge ('99)	25	Rel w/o tag – G. Trice, 17.5 in TL
B. Manus	58478	16.5	9/20/99	New Point Comfort Rock Pile	9/23/99	New Point Comfort Rock Pile ('99)	3	Rel W/TAG – B. Manus, 16.5 in TL
R. Sturt	65117	18.0	4/16/00	Rudee Inlet	4/30/00	Rudee Inlet ('00)	14	Rel w/o tag S. Fentress, 18 in TL

Table 6. (cont.) Adult Black Drum Movement and Site Fidelity Within Year Tagged (and year to year) Within VA; Also Movement from VA to NC Waters (1997-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Remarks & Recap Angler
M. Firestone	74496	16.5	9/20/00	Rudee Inlet	9/29/00	Rudee Inlet ('00)	9	Rel W/TAG – D. Mansion, 17.25 in TL
L. Wales	81821	49.5	8/5/01	CBBT 1 st Island	8/6/01	CBBT 1 st Island Pier ('01)	1	Rel w/o tag – J. Roberson, 51 in TL
G. Guyot	96938	23.0	5/7/02	Hampton Roads Bridge Tunnel (HRBT)	6/23/02	HRBT ('02)	27	Killed - R. Newsome, 24 in TL
G. Reiger	13416	16.0	9/7/02	Occohannock Art. Reef	9/18/02	Occohannock Art. Reef ('02)	11	Rel W/TAG – G. Reiger, 16 in TL
G. Reiger	13417	18.0	9/7/02	Occohannock Art. Reef	9/22/02	Occohannock Art. Reef ('02)	15	Rel W/TAG – P. Plishka, 16 in TL
R. Collins	81270	17.0	9/13/02	Rudee Inlet	11/2/02	Rudee Inlet ('02)	50	Rel W/TAG – G. Walker, 16 in TL
M. Bull	28491	16.0	9/23/02	Metompkin Inlet	10/3/02	Metompkin Island Surf ('02)	10	Rel W/TAG – R. Willett, 16 in TL
C. Johnson	27955	30.0	5/25/03	Inner Middle Ground Shoal	6/12/03	Latimer Shoal (RN16 Buoy) ('03)	18	Rel w/o tag, A. Culanding, 33 in TL
R. Savage	87762	45.5	5/14/03	Off Kiptopeke State Park	5/23/05	Honga River, MD ('03 to '05)	740	Rel w/o tag - D. Short, no lth
T. Capoldo	103630	30.0	5/9/04	Inner Middle Ground Shoal	5/22/04	Inner Middle Ground Shoal, Bouy 12 ('04)	13	Rel W/TAG – B. Sherwood, Braendle, 31.5 in TL

Table 6. (cont.) Adult Black Drum Movement and Site Fidelity Within Year Tagged (and year to year) Within VA; Also Movement from VA to NC Waters (1997-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Remarks & Recap Angler
R. Guyot	122540	19.0	9/12/04	Elizabeth River, Norf/Ports Waterfront	11/4/04	Elizabeth River, S. Brch. Dominion Bridge ('04)	63	Rel W/TAG - C. Sherwood, 16 in TL
S. Gold	103568	26.0	5/27/05	Inner Middle Ground Shoal	7/10/05	CBBT 3 rd Island ('05)	44	Killed – R. Booth, 26 in TL
R. Holtz	103913	27.5	7/15/05	CBBT 4 th Island	5/15/06	Great Machipongo Inlet (ES Seaside) ('05 to '06)	302	Killed – R. Burress, 28 in TL
B. Knapp	104838	30.0	5/15/06	Inner Middle Ground Shoal	10/12/06	Near CBBT ('06)	151	Rel w/o tag S. Green, 30 in TL
J. White	152097	47.0	5/23/06	Latimer Shoal (Buoy RN16)	5/23/06	Inner Middle Ground Shoal ('06)	0	Killed – R. Willett, 46.5 in TL
K. Whitley	152510	36.0	5/12/07	Fisherman's Island, S. End ES	5/19/07	Thimble Shoals Chan Buoy ('07)	7	Killed – S. Neice, 38 in TL
J. Jenrette	152852	47.0	5/13/07	Latimer Shoal (RN 16 Buoy)	5/26/07	Latimer Shoal (RN 16 Buoy) ('07)	13	Rel w/o tag - L. Strain, no Lth
K. Whitley	169682	48.0	8/4/07	CBBT 1 st Island	8/7/07	CBBT (unspecified) ('07)	3	Rel w/o tag - J. Hill, 53 in TL
Tagged Virginia - Recaptured North Carolina								
G. Edinger	32376	18.0	11/10/99	Cape Henry Wreck	6/7/00	Oregon Inlet, NC ('99 to '00)	210	Status – ND, No Lth, Moved 74 mi.
P. Ross	26024	22.0	7/18/00	Ocohanock Art. Reef	12/1/00	Wimble Shoals, NC (off Rodanthe-Salvo, Hatteras Island ('00)	136	Killed - M. Hamrick, 25.2 in TL, moved 145 mi

Table 6. (cont.) Adult Black Drum Movement and Site Fidelity Within Year Tagged (and year to year) Within VA; Also Movement from VA to NC Waters (1997-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Remarks & Recap Angler
G. Edinger	81761	17 est	10/31/01	Cape Henry Wreck	3/13/02	Croatan Sound, NC ('01 to '02)	133	Killed - J. Ethridge, 17 in TL, moved 83 mi

Table 7. Virginia Tagged Flounder: Bay and Virginia Coastal Movement 2007-2008.

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Recapture Remarks
2007 Recaptures								
R. Duke	149289	14.5	4/14/07	36A Buoy	7/24/07	Cherrystone Art. Reef	101	Killed – D. Cartens, 17 in.
M. Perron	160535	15.5	8/13/06	CBBT 1 st Island	9/3/07	CBBT 4 th Island	386	Rel w/o tag – D. Jernigan, 17 in.
B. Knapp	170821	18	4/8/07	CBBT 1 st Island	8/27/07	Hampton Bar	141	Rel W/TAG – R. Hewitt, 18 in.
D. Elliott	165089	15.5	8/19/07	CBBT 2 nd Island	9/8/07	CBBT 1 st Island	20	Killed – J. Stephenson, 15 in.
J. Duell	178109	14.0	6/2/07	CBBT 4 th Island	6/23/07	CBBT 2 nd Island	21	Rel W/TAG – J. Musick, 18 in.
G. Green	181200	13.0	7/24/07	CBBT 4 th Island	8/4/07	Hampton Roads Bridge Tunnel (HRBT)	11	Rel w/o tag – J. Scott, 15.25 in.
J. Duell	185886	18.0	8/25/07	CBBT 4 th Island	10/13/07	CBBT 3 rd Island	49	Killed – W. Simmons, 18.75 in.
D. Elliott	165135	17.5	4/3/07	CBBT 8 Mile Post	5/21/07	Cheatham Annex Pier – York River	48	Killed – M. Cottee, 20 in.
D. Elliott	162360	17.0	4/28/07	CBBT 8 Mile Post	5/30/07	Sharps Island, MD	32	Killed - G. Russack, no length
D. Elliott	176647	13.25	9/22/07	Cape Henry Wreck	9/26/07	CBBT, Small Boat Chan.	4	Rel W/TAG – A. Testeri, Recap 9/30 – Rel W/TAG , P. Neeley
C. Camp	172380	17.25	4/14/07	CBBT 3 rd Island	6/2/07	36A Buoy off C. Charles	48	Rel W/TAG – C. King, 17 in.

Table 7 (cont.). Virginia Tagged Flounder (2007-2008): Bay and Virginia Coastal Movement.

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Recapture Remarks
J. Duell	178109	14.0	6/2/07	CBBT 4 th Island	6/23/07	CBBT 2 nd Island	21	Rel W/TAG – J. Musick, 18 in.
D. Griffith	178503	16.0	7/9/07	CBBT High Level Br.	7/9/07	Smith Island Inlet	0	Killed – M. Gilliland, 15 in.
K/T Neill	104361	27.0	11/5/07	Cuyahoga Wreck-Triangle Wrecks	11/17/07	Ches Light Tower Reef	12	Killed – M Justice, 26 in.
J. Seeloff	157208	13.0	5/28/07	HRBT	9/26/07	Lynnhaven Inlet	121	Rel w/o tag – R. Brown, 14.25 in.
S. Vinson	180017	16.5	7/18/07	HRBT	8/18/07	York River, Coleman Br.	41	Killed – M. Stanley, 20.5 in.
J. Zarella	181429	13.5	7/28/07	HRBT	8/26/07	CBBT – Unspecified	29	Rel w/o tag – P. Mills, 15.5 in.
B. Knapp	185750	19.0	10/4/07	Lynnhaven Inlet	10/14/07	York River Hot Ditch	10	Killed – K. Winquist, 19 in.
J. Duell	186480	13.0	10/6/07	MMBT	10/21/07	HRBT	15	Rel/W TAG – R. Trasher, 13.25 in.
J. Leiffer	174270	13.0	8/15/07	Off Back Rivrr	9/3/07	York River Hot Ditch	19	Rel W/TAG – B. Hogge, 13 in.
J. Seeloff	176190	12.0	5/12/07	Off Willoughby Spit	6/25/07	Rudee Inlet	44	Rel W/TAG – M. Green, 10.5 in.
D. Cassady	153354	14.25	5/5/07	Rudee Inlet	5/22/07	HRBT	17	Rel W/TAG – J. Duell, 14.5 in.
J. Johnson	178492	11.25	6/6/07	Rudee Inlet	8/24/07	HRBT	79	Rel W/TAG – S. Vinson, 11.25 in.
E. Gekowsky	167298	11.0	6/7/07	Rudee Inlet	7/8/07	Lynnhaven Inlet	31	Rel w/o tag – J. Romans, 18 in.

Table 7 (cont.). Virginia Tagged Flounder (2007-2008): Bay and Virginia Coastal Movement.

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Recapture Remarks
R. Googin	181662	10.5	7/2/07	Rudee Inlet	9/28/07	Off Willoughby Spit	88	Rel W/TAG – R. Googin, 12.5 in.
A. Brigantic	177525	9.50	5/28/07	Thimble Shoals Light	9/25/07	CBBT 2 nd Island	120	Rel W/TAG – S. Fay, 13.5 in.
E. Lawrence	178618	13.5	8/31/07	Winter Harbor	9/26/07	York River Hot Ditch	26	Rel w/o tag – L. Spurlin, 14 in.
E. Shepherd	177031	11.5	6/2/07	York River Hot Ditch	6/17/07	Glou. Pt. Fishing Pier	15	Rel w/o tag – M. Davis, 10 in.
E. Shepherd	176947	11.0	6/8/07	York River Coast Guard Pier	10/17/07	Off Cove Pt., MD	131	Rel w/o tag – M. Verdin, 11.5 in.
E. Shepherd	184354	6.0	8/31/07	York River Coast Guard Pier	9/8/07	Norfolk Naval Base Pier	8	Killed – K. Tucker, 8 in.
E. Shepherd	184386	11.0	9/1/07	York River Coast Guard Pier	9/8/07	Norfolk Naval Base Pier	7	Killed – K. Tucker, 12 in.
E. Shepherd	177039	12.0	6/3/07	York River-Glou. Pt. Fishing Pier	7/30/07	CBBT 2 nd Island	57	Rel w/o tag – T. Bragman, 16 in.
E. Shepherd	177045	13.5	6/4/07	York River-Glou. Pt. Fishing Pier	8/19/07	Cape Henry Wreck	76	Rel W/TAG – S. Colisson, 10.5 in.
E. Shepherd	182651	11.0	7/26/07	York River-Glou. Pt. Fishing Pier	9/27/07	Lynnhaven Inlet Long Creek	63	Rel W/TAG - A. Zinser, 5 in.
E. Shepherd	182664	6.0	7/27/07	York River-Glou. Pt. Fishing Pier	8/26/07	York River Hot Ditch	30	Rel W/TAG – E. Shepherd, 6 in.
E. Shepherd	187146	7.5	9/25/07	York River-Glou. Pt. Fishing Pier	11/5/07	CBBT 3 rd Island	41	Rel w/o tag – N. Robertson, 8 in.

Table 7 (cont.). Virginia Tagged Flounder (2007-2008): Bay and Virginia Coastal Movement.

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Recapture Remarks
2008 Recaptures								
B. Bois	198183	17.5	5/25/08	36A Buoy off C. Charles	8/24/08	Texico Wreck Bay	91	Rel w/o tag – T. Melton, 18.75 in.
R. Holtz	148324	15.0	7/6/08	Cape Henry Wreck	9/14/08	CBBT 4 th Island	70	Rel w/o tag – R. Holland, 15 in.
R. Holtz	148286	17.75	6/14/08	CBBT 1 st Island	10/21/08	Lynnhaven In. Bridge	129	Rel W/TAG – R. Czapor, 15.75 in.
B. Poulter	211761	16.0	8/23/08	CBBT 1 st Island	8/31/08	CBBT 2 nd Island	8	Rel w/o tag – P. Mantis, 16.5 in.
B. Knapp	195814	18.0	3/22/08	CBBT 3 rd Island	5/19/08	Off Ches. Beach, MD	58	Killed – caught in pound net off Reedville – T. Lewis, 17.25 in.
J. Leiffer	207509	17.75	6/28/08	CBBT 3 rd Island	6/28/08	CBBT 4 th Island	14	Rel w/o tag – R. Koch, 18 in.
J. Duell	199446	17.0	6/7/08	CBBT 4 th Island	8/3/08	CBBT High Level Bridge	57	Killed – L. Kitchens, 22 in.
J. Duell	211627	16.0	6/28/08	CBBT 4 th Island	7/10/08	CBBT 2 nd Island	12	Rel w/o tag – T. Dula, 16 in.
D. Griffith	193057	16.0	7/18/08	CBBT 4 th Island	8/7/08	Fisherman's Is. Bridge	20	Rel W/TAG – G. Rhome, 15 in.
D. Elliott	210816	16.0	9/14/08	CBBT, 8 mi. post	10/4/08	CBBT 3 rd Island	20	Rel W/TAG – B. Morris, 17 in.
J. Duell	200547	16.0	6/14/08	CBBT, High Level Bridge	7/12/08	Cape Henry Wreck	28	Rel w/o tag – G. Roe, 17 in.

Table 7 (cont.). Virginia Tagged Flounder (2007-2008): Bay and Virginia Coastal Movement.

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Recapture Remarks
D. Elliott	200228	18.0	7/20/08	Cut Chan Buoys 39-47	7/31/08	The Cell	11	Rel w/o tag – McLain, 18.25 in.
E. Shepherd	196825	11.0	5/14/08	York River-Glou. Pt. Fishing Pier	8/20/08	Yorktown Beach Rocks	98	Tag Found Yorktown Beach, M. McGeorge
E. Shepherd	196444	11.5	5/28/08	York River-Glou. Pt. Fishing Pier	6/1/08	Yorktown Fishing Pier	4	Rel w/o tag – J. Dickie, 12 in.
E. Shepherd	209766	7.5	8/23/08	York River-Glou. Pt. Fishing Pier	9/16/08	York River Hot Ditch	24	Rel W/TAG – E. Shepherd, 7.5 in.
S. Vinson	201724	16.25	7/27/08	Hampton Bar	9/8/08	CBBT 4 th Island	13	Rel W/TAG – J. Duell, 16 in.
J. Duell	188747	17.0	4/13/08	HRBT	8/16/08	CBBT, Yancy Wreck	125	Killed – W. Smith, 19.5 in.
J. Duell	189630	17.0	5/10/08	HRBT	7/13/08	CBBT, 3 rd Island	64	Rel W/TAG – R. Sherman, 17.5 in.
A. Brigantic	177566	15.0	5/25/08	HRBT	6/26/08	Hampton Bar	32	Rel W/TAG – B. Hartung, 15.5 in.
A. Brigantic	177576	12.0	5/25/08	HRBT	6/8/08	Hampton Bar	14	Rel w/o tag – J. Wicker, 11 in.
L. Berry	202840	15.0	7/12/08	James River (lower)	10/13/08	CBBT 2 nd Island	93	Rel w/o tag – C. Wrotin, 14.5 in.
E. Stumphauzer	164139	16.5	4/24/08	Lynnhaven River	6/20/08	CBBT Small Boat Chan.	57	Rel W/TAG – K. Truewick, 18 in.
J. Taylor	207125	14.5	5/5/08	Off Back River	6/14/08	The Cell	30	Rel w/o tag – E. Gossard, 17 in.

Table 7 (cont.). Virginia Tagged Flounder (2007-2008): Bay and Virginia Coastal Movement.

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Recapture Remarks
R. Groogin	188641	11.0	4/27/08	Off Willoughby Spit	5/21/08	James River (lower)	24	Killed – 16 th Street Pier, NN, D. Hixon, 11 in.
J. Johnson	159656	11.5	5/4/08	Rudee Inlet	7/26/08	Hampton Bar	83	Rel W/TAG – S. Vinson, 14.5 in.
M. Marquedant	196049	13.0	6/18/08	Rudee Inlet	6/27/08	HRBT	9	Rel w/o tag – T. Bucsok, 14 in.
C. Donnell	198033	17.0	5/17/08	Sand Shoal In.	7/14/08	Wach. Inlet off old Coast Guard Station	58	Rel w/o tag – D. Flohr, 17 in.
G. Wojcik	201562	15.25	6/13/08	Tue Marsh Light, York River	8/9/08	York River-Glou. Pt. Fishing Pier	57	Rel w/new tag – E. Shepherd, 16 in.
L. Berry	172111	12.0	5/6/08	Va. Beach Fishing Pier	5/29/08	James River (lower)	23	Rel W/TAG - 16 th St. Pier, NN – L. McLain, 12 in
L. Berry	172120	13.75	5/9/08	Va. Beach Fishing Pier	6/8/08	Hampton Bar	30	Rel W/TAG – L. Berry, 13.75 in.
L. Berry	172122	11.5	5/9/08	Va. Beach Fishing Pier	7/2/08	James River (lower)	54	Rel W/TAG - 16 th St. Pier, NN – V. Johnson, 12.5 in.
E. Lawrence	208385	15.0	7/4/08	Winter Harbor	7/17/08	Horn Harbor	13	Rel W/TAG – C. Smoot, 17 in.
S. Vinson	181955	16.0	5/16/08	Yorktown Beach Rocks	10/3/08	Goodwin Islands	140	Rel W/TAG – G. Wojcik, 17.5 in.

Table 8. Virginia Tagged Flounder: North–South Coastal Movement 2007-2008 (RI to SC).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Recap Date	Recapture Location	Days Out	Remarks & Recap Angler
M. Bull	124522	14.5	8/9/04	36A Buoy off Cape Charles Town	7/8/07	Lower NY Bay off Brooklyn, NY	1063/ 2.9 yrs.	Killed – L. Christiano, 20.5 in.
M. Bull	132153	15.0	4/6/05	Green Chan., Wachapreague Inlet	8/25/07	Off Pt. Judith, RI	871/ 2.4 yrs.	Killed – J. Graf, 20 in.
E. Shepherd	139216	12.5	6/17/05	York River, Gloucester Pt. Fishing Pier	6/24/07	Corsen’s Inlet, NJ	737/ 2.0 yrs.	Killed – J. Sigmans, 17.5
R. Collins	132514	12.0	7/24/05	CBBT, Big D Wreck	10/1/07	Off Ocean City, MD	799/ 2.2 yrs.	Killed – J. Perry, 18 in.
J. Robinson	131216	13.0	8/20/05	Cape Henry Wreck	2/7/07	Off Va. Beach, VA Shelf	536	Killed – D. Shelby, 17.5 in.
J. Robinson	131220	14.5	8/26/05	CBBT, 8 Mile Post	6/4/07	Off Rhode Island	647	Killed – I. Parente, 19 in.
D. Leviner	149257	14.0	5/4/06	Hampton Roads Bridge Tunnel (HRBT)	2/13/07	Off Va. Beach	285	Killed – M. Hamrick, 15.625 in.
E. Shepherd	155765	13.0	5/21/06	York River, Gloucester Pt. Fishing Pier	1/31/07	Off Va. Beach Shelf	255	Killed – Trawler – D. Shelby, 15 in.
K. Whitley	156714	15.0	5/22/06	HRBT	1/25/07	Off Va. Beach, VA shelf	248	Killed – Trawler, L. Pirilli, 16 in.
R. Boshier	133827	14.75	5/27/06	Bluefish Rock	8/3/07	Off Blook Island, RI	433	Rel w/o tag – E. Stecklein
M. Handforth	154443	16.25	6/6/06	Chincoteague Channel	8/28/07	Indian River, DE	448	Killed – V. Egger, 18.5 in.

Table 8. (cont.) Virginia Tagged Flounder (2007–2008): North–South Coastal Movement (RI to SC).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Recap Date	Recapture Location	Days Out	Remarks & Recap Angler
B. Arnold	155256	18.25	6/23/06	CBBT, 1 st Island	1/23/07	Off North Carolina Outer Banks Shelf	214	Killed – Trawler - S. Marsh, no length 26969/4089.8
A. Brigantic	156921	14.0	7/1/06	Bluefish Rock	2/12/07	Wimble Shoals, S Oregon Inlet, NC	226	Killed – D. O’Neal, 25 in.
L. Hughes	159940	11.0	7/10/06	Rudee Inlet	8/13/07	Great Edd Inlet, NJ	399	Rel W/TAG – B. Lowe, 15 in.
J. Seeloff	157115	14.0	7/15/06	Off Willoughby Spit	5/15/07	Avalon Pier, Kill Devil Hills, NC	304	Killed – S. Peace, 15 in.
M. Perron	154783	18.5	7/25/06	CBBT, 1 st Island	2/26/07	Hudson Canyon off Sandy Hook, NJ	216	Killed – Trawler - M. Hamrick, 19.5 in.
J. Leiffer	158259	13.0	9/7/06	York River (lower)	7/7/07	Delaware Bay, DE	303	Rel w/o tag – K. Brennan, 16.5 in.
E. Shepherd	165194	15.0	9/12/06	York River, Gloucester Pt. Fishing Per	6/14/07	Off Charleston Beach, RI	275	Killed – Com. Net - G. Corsetta, 17 in.
S. Spiers	132810	13.25	9/22/05	Concrete Ships, Kiptopeake	8/31/08	Off Rhode Island	1074/ 2.9 yrs.	Killed – Trawler – J. Glading, 21.5 in.
J. Duell	158692	13.25	7/17/06	HRBT	8/31/08	Offshore Va. Beach	561	Killed –In NCMF sample trawler – W. Jones, 16.5 in.
J. Duell	167184	18.25	4/22/07	CBBT, 3 rd Island	1/29/08	Offshore Va. Beach	282	Killed – In NCMF sample trawler – T. Carron, 19.25 in.
J. Seeloff	176208	14.0	5/20/07	Off Willoughby Spit	1/31/08	Offshore Va. Beach Shelf	256	Killed – In NCMF sample trawler – P. Coleman, 14.5 in.

Table 8. (cont.) Virginia Tagged Flounder (2007–2008): North–South Coastal Movement (RI to SC).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Recap Date	Recapture Location	Days Out	Remarks & Recap Angler
D. Elliott	174664	12.0	10/7/07	Concrete Ships Kiptopeake	6/10/08	Off New Jersey	247	Rel W/TAG – Headboat – R. Powers, 13 in.
D. Elliott	174670	13.0	11/18/07	CBBT, Small Boat Chan.	8/13/08	Lower NY Bay, Brooklyn	269	Rel W/TAG – J. Marino, 14. in.
D. Elliott	174669	16.0	11/18/07	CBBT, 1 st Small Boat Chan.	1/10/08	Off Rhode Island	53 ^a	Killed – Landed New Bedford, MA fish house - A. Bliss, 14 in.
M. Plevyak	196351	14.5	6/11/08	Elizabeth River, S. Branch	10/10/08	Albemarle Sound, NC	121	Killed – Comm. Catch – L. Belangia, 14.5 in.

^a **Note:** Moving offshore from the Chesapeake Bay Bridge Tunnel and out the Bay mouth, this flounder would appear to have moved an approximate straight line distance of roughly 300-320 n.mi. from the Bay entrance to waters “offshore Rhode Island.” Simply taking this distance and dividing it by the days at large (53 days) indicates the fish would have had to move a “minimum distance per day” of roughly 5.6-6.0 n.mi./day (about 6.4-6.9 statute mi. per day).

Table 9A. Sub-adult Red Drum Movement from Virginia to North Carolina Waters (2007 and 2008 recaptures by tag location).

2007 Recaptures										
Tagger	Tag No.	Tag Date	Tag Location	Tg Lth	Rcp Date	Recapture Location	RLth	Recap Angler	Result	Days Out
Lowry, Terry	187301	10/9/2007	Back River Artificial Reef	24.00	12/9/2007	Buxton, NC surf	25.0	Anthony Mirabella	Killed	61
Poulter, Brandon	184891	8/19/2007	Cape Henry Area	21.00	11/20/2007	Avon, NC (Surf)	22.5	Pam Rogers	Killed	93
Cline, Dennis	154700	10/11/2006	E. S. Barrier Island Surf	26.50	5/4/2007	Ocracoke Island, NC	27	Vickie Basnight	No Data	205
Guyot, Rick	168465	7/1/2007	Eliza.Rv,Norfk-Ports.waterfrt	23.00	1/29/2008	Pamlico Sd, NC N. area	27.25	Pat Krawchuk	Relw/oT	212
Lawrence, Ed	138137	2/26/2007	Elizabeth River (Hot Ditch) CE	16.00	11/7/2007	Duck, NC Research Pier	25.0	Linda Burns	Killed	254
Lucy, Jon	134675	2/26/2007	Elizabeth River (Hot Ditch) CE	16.00	11/7/2007	Duck, NC Research Pier	25.0	Linda Burns	Killed	254
Lawrence, Ed	170186	3/10/2007	Elizabeth River (Hot Ditch) CE	18.00	11/9/2007	Buxton, NC surf	26.5	J. C. Blanco	Killed	244
Lawrence, Ed	170199	3/13/2007	Elizabeth River (Hot Ditch) CE	14.25	10/12/2007	Oregon Inlet, NC	ND		Relw/T	213
Duell, Jay	158654	7/2/2006	Hampton Roads Brid. Tun.	21.00	1/26/2007	Diamond Shoals, NC area	26	Steven Green	Relw/oT	208
Rinck, Matthew	104410	7/14/2006	Inner Middle Ground Shoal	41.00	7/12/2007	Rodanthe, NC (surF)	ND	Kim Price	No Data	363
Whitley, Kevin	157964	7/25/2006	Little Creek Jetties	9.00	7/28/2007	Pamlico Sd, NC, Swan Quarter	21.5	Travis Stallings	Killed	368
Whitley, Kevin	165649	9/26/2006	Little Creek Jetties	14.00	11/14/2007	Hatteras Inlet, NC	23.0	John Johnston	Killed	414
Whitley, Kevin	167720	11/1/2006	Little Creek Jetties	14.00	4/6/2007	Currituck Sound, NC	16	Jason Koci	Relw/oT	156
Whitley, Kevin	182927	9/14/2007	Little Creek Jetties	15.00	11/20/2007	Hatteras Inlet, NC	18.5	Rose Aman	Killed	67
Knapp, Bill	164986	10/1/2006	Lynnhaven Inlet	17.00	5/28/2007	Surf City-Topsail Island, NC	19.5	Warren Spiller	Killed	239
Cohn, David	166424	10/11/2006	Lynnhaven Inlet	15.00	9/19/2007	Duck, NC Research Pier	19.5	William Wright	Killed	343
Cohn, David	167646	10/20/2006	Lynnhaven Inlet	14.00	7/14/2007	Oregon Inlet, NC	17.25	Cameron Moore	Relw/oT	267
Knapp, Bill	166526	10/27/2006	Lynnhaven Inlet	15.00	11/13/2007	Avon, NC (Surf)	27	William Harvey	Relw/T	382
Limroth, David	151287	8/9/2006	Lynnhaven Inlet, Crystal Lake	11.25	11/6/2007	Croatan Sound, NC	25.0	David Eckard	Killed	454
Duell, Jim	186464	9/23/2007	Monitor Merrimac Brid.Tun.	16.50	12/6/2007	Oregon Inlet, NC	18.0	Jesus Calderon	Killed	74
Watkins, Brian	104098	5/27/2007	Poquoson Flats	18.00	10/29/2007	Corolla-False Cape-Duck, NC	25.5	John Samko	Relw/oT	155
Watkins, Brian	170358	5/27/2007	Poquoson Flats	18.00	12/19/2007	Oregon Inlet, NC	26.5	Ronald Branner	Killed	206
Seymour, Wayne	135882	11/28/2005	Rudee Inlet	15.50	9/10/2007	Oregon Inlet, NC	28	Victor Diaz	Relw/oT	651
Seymour, Wayne	148628	4/4/2006	Rudee Inlet	15.50	3/10/2007	Ocracoke Island, NC	28	Charlie Griffin	Relw/oT	340
Seymour, Wayne	160811	10/11/2006	Rudee Inlet	17.00	4/9/2007	Pungo River	17.625	T. Payne NCDMF	Killed	180
Miller, Don	160620	10/31/2006	Rudee Inlet	15.50	10/31/2007	Avalon Fishing Pier, Kill Devi	23.0	George Starboard	Killed	365
Seymour, Wayne	163606	11/9/2006	Rudee Inlet	26.00	7/5/2007	Brant Is Shoal NC, off Neuse R.	27.25	Scott Harris	Relw/T	238
Miller, Don	163531	1/2/2007	Rudee Inlet	14.00	11/19/2007	Oregon Inlet, NC	24.25	David Joyner	Killed	321
Barnhart, David	168802	3/18/2007	Rudee Inlet	15.00	10/3/2007	Corolla-False Cape-Duck, NC	23	William Treciak	Killed	199
Barnhart, David	168835	3/27/2007	Rudee Inlet	14.75	12/19/2007	Buxton, NC surf	23.5	Taylor Latham	Killed	267
Miller, Don	173301	4/5/2007	Rudee Inlet	15.50	11/8/2007	Avalon Fishing Pier, Kill Devi	23.75	Wayne Given	Killed	217
Casady, Doug	168655	10/31/2006	Rudee Inlet Jetty	16.00	10/25/2007	Croatan Sound, NC	ND	Roberto Rodriguez	Killed	359
Poe, Dale	104570	9/24/2005	Sandbridge, Little Is. Fish Pier	45.50	11/30/2007	Rodanthe, NC (surF)	ND	Gary Fritter	No Data	797
Casady, Doug	104721	9/26/2005	Sandbridge, Little Is. Fish Pier	43.00	8/12/2007	Pamlico River, NC	50	Alton Parker	Relw/oT	685
Casady, Doug	104926	10/16/2005	Sandbridge, Little Is. Fish Pier	47.50	6/19/2007	Neuse River NC	39	Danny Mason	Relw/oT	611
Lawrence, Ed	147141	9/9/2006	Ware Point	11.00	7/14/2007	Pamlico Sd, NC N. area	21	R. Rodriguez, O'Neals Seaf.	Killed	308
Lucy, Jon	191538	9/11/2007	Winter Harbor	23.25	12/18/2007	Avon, NC (Surf)	26	Ben Edwards	Killed	98
Lucy, Jon	191535	9/11/2007	Winter Harbor	23.50	11/11/2007	Oregon Inlet, NC	26.5	Matt White	Killed	61

Table 9A. (cont.) Sub-adult Red Drum Movement from Virginia to North Carolina Waters (2007 and 2008 recaptures by tag location).

2007 Recaptures										
Tagger	Tag No.	Tag Date	Tag Location	Tg Lth	Rcp Date	Recapture Location	RLth	Recap Angler	Result	Days Out
Lawrence, Ed	173940	9/21/2007	Winter Harbor; off Winter Harb	21.25	12/31/2007	Hatteras Inlet, NC	22.25	Richard Austin	Relw/T	101
Lawrence, Ed	159454	9/17/2006	York River (lower)	15.00	3/31/2007	Core Sound, NC	18	Jerry Hocutt	Relw/oT	195
Shepherd, Ed	166891	10/25/2006	York River Hot Ditch	13.00	11/9/2007	Avon, NC (Surf)	23.5	Kevin Newcombe	Killed	380
Shepherd, Ed	166893	10/25/2006	York River Hot Ditch	15.50	11/9/2007	Avon, NC (Surf)	23.5	Kevin Newcombe	Killed	380
Shepherd, Ed	166999	10/27/2006	York River Hot Ditch	13.00	11/8/2007	Duck, NC Research Pier	24	Gray Honaker	Relw/oT	377
Shepherd, Ed	168163	11/6/2006	York River Hot Ditch	12.50	1/4/2008	Cape Point, North Carolina (The Pt.)	22.0	Mike Donaldson	Killed	424
Shepherd, Ed	168195	11/6/2006	York River Hot Ditch	13.50	11/30/2007	Rodanthe, NC (surF)	23.0	Watson Thomas	Killed	389
Shepherd, Ed	146251	11/15/2006	York River Hot Ditch	15.50	11/23/2007	Oregon Inlet, NC	25.0	Lee Walker	Killed	373
Shepherd, Ed	146295	11/17/2006	York River Hot Ditch	14.00	11/10/2007	Avalon Fish Pier, Kill Devil Hills NC	25.0	Clarence Woody	Killed	358
Shepherd, Ed	170986	3/1/2007	York River Hot Ditch	14.50	11/18/2007	Avon, NC (Surf)	23.5	Kevin Beck	Killed	262
Shepherd, Ed	170938	3/26/2007	York River Hot Ditch	16.00	11/5/2007	Ocracoke Island, NC	25.5	Richard Hartman	Killed	224
Shepherd, Ed	171010	3/30/2007	York River Hot Ditch	14.00	12/3/2007	Avon, NC (Surf)	25.0	Bruce Payne	Relw/oT	248
Shepherd, Ed	173446	5/7/2007	York River Hot Ditch	15.50	11/15/2007	Buxton, NC surf	24	Steve Nagliano	Killed	192
Shepherd, Ed	173381	5/10/2007	York River Hot Ditch	13.00	11/6/2007	Hatteras Lighthouse Jetty surf	22	James Smitherman	Killed	180
Shepherd, Ed	173474	5/14/2007	York River Hot Ditch	15.50	12/11/2007	Buxton, NC surf	24.0	Jacob Mullen	Killed	211
Shepherd, Ed	173626	5/15/2007	York River Hot Ditch	17.00	12/13/2007	Buxton, NC surf	25.5	Cameron Johnson	Killed	212
Bartlett, Brandon	173052	5/19/2007	York River Hot Ditch	15.25	11/11/2007	Buxton, NC surf	22	Thomas Lauter	Killed	176
Shepherd, Ed	176891	5/22/2007	York River Hot Ditch	15.50	10/30/2007	Buxton, NC surf	26.5	Bill Mostertz	Killed	161
Shepherd, Ed	176954	5/23/2007	York River Hot Ditch	14.50	12/10/2007	Corolla-False Cape-Duck, NC	24.0	Joe Panaras	Killed	201
Shepherd, Ed	161214	9/2/2006	York River, Glouc. Pt. Fish Pier	14.00	2/21/2007	Pamlico River, NC	17.5	Chris Braddy	Relw/T	172
2008 Recaptures										
HAMPTON , BRIAN	196343	2008-08-30	Back River	13.50	2008-09-12	Avon, NC Fishing Pier	13.00	VIOLET KRAWCHUK	Relw/oT	13
Diggs, Elmer	193418	2008-10-02	Back River Artificial Reef	16.00	2008-11-03	Pamlico Sd., NC N. area	17.00	MANSON MEEKINS	KILLED	32
Lawrence, Ed	134224	2007-03-13	Eliz. River (Hot Ditch) CE	15.75	2008-03-15	Croatan Sound, NC	NULL	RON SAULMAN	KILLED	368
Guyot, Rick	166073	2006-10-22	Eliza.Rv,Norfk-Ports.waterfrt	14.75	2008-05-10	Pamlico River, NC	23.50	JAMES DENTY	KILLED	566
Guyot, Rick	168465	2007-07-01	Eliza.Rv,Norfk-Ports.waterfrt	23.00	2008-01-29	Pamlico Sd., NC N. area	27.25	Pat Krawchuk	Relw/oT	212
FREEMAN, CRAIG	211461	2008-11-01	Eliza.Rv,Norfk-Ports.waterfrt	14.00	2008-12-06	Currituck Sound, NC	17.50	BENJAMIN RIPPONS	Relw/oT	35
WOJCIK, GEORGE	201628	2008-08-01	Goodwin Islands	11.00	2008-12-19	Ocracoke Island, NC	14.75	BRANT MASSEY	Relw/T	140
WOJCIK, GEORGE	205513	2008-08-16	Goodwin Islands	11.00	2008-09-30	Oregon Inlet, North Carolina	13.00	TONY LAPERNA	Relw/oT	45
WOJCIK, GEORGE	210101	2008-08-22	Goodwin Islands	12.25	2008-11-02	Corolla-False Cape-Duck, NC	15.00	DOUG WILCOX	Relw/T	72
WOJCIK, GEORGE	210130	2008-08-30	Goodwin Islands	12.50	2008-09-18	Roanoke Sound, NC	13.50	LISA EVERETTE	Relw/T	19
WOJCIK, GEORGE	210144	2008-09-01	Goodwin Islands	16.00	2008-10-21	Corolla-False Cape-Duck, NC	17.00	PEGGY ASHLY	Relw/oT	50
Duell, Jay	203185	2008-08-16	Hampton Roads Tunnel	14.00	2008-08-31	Corolla-False Cape-Duck, NC	16.50	JEFF STEADMAN	Relw/T	15
Duell, Jim	209290	2008-08-30	Hampton Roads Tunnel	16.00	2008-09-10	Duck, NC Research Pier	16.50	T. J. MULLEN	Relw/oT	11
Osborne, Kendall	193127	2008-09-29	Lafayette River	14.00	2008-10-15	Corolla-False Cape-Duck, NC	14.00	JERRY WILLIS	Relw/T	16
Whitley, Kevin	207847	2008-09-08	Little Creek Jetties	14.00	2008-12-13	Ocracoke Island	16.50	BRANT MASSEY	Relw/oT	96
Whitley, Kevin	207871	2008-09-09	Little Creek Jetties	13.00	2008-10-30	Beaufort Inlet, NC	14.00	JAY BLOUNT	Relw/oT	51
Whitley, Kevin	208656	2008-09-11	Little Creek Jetties	14.00	2008-12-14	Oregon Inlet, North Carolina	16.00	WOODY DUNCAN	Relw/oT	94
Whitley, Kevin	208734	2008-09-22	Little Creek Jetties	12.00	2008-09-30	KittyHawk, NC	12.00	KEVIN FRANCE	Relw/T	8

Table 9A. (cont.) Sub-adult Red Drum Movement from Virginia to North Carolina Waters (2007 and 2008 recaptures by tag location).

2008 Recaptures										
Tagger	Tag No.	Tag Date	Tag Location	Tg Lth	Rcp Date	Recapture Location	RLth	Recap Angler	Result	Days Out
Whitley, Kevin	208734	2008-09-22	Little Creek Jetties	12.00	2008-11-04	Hatteras Inlet, NC	13.00	PHILLIP GARRETT	Relw/oT	43
Whitley, Kevin	208738	2008-09-22	Little Creek Jetties	15.00	2008-11-28	Pamlico Sd, NC Swan Qtr. Area	15.50	KENT KING	Relw/oT	67
Bunnell, Al	202274	2008-08-16	Lynnhaven River	21.00	2008-10-23	Avon, NC (Surf)	22.00	ROBERT CAPPS	KILLED	68
Robinson, Jim	200391	2008-10-08	Lynnhaven River	17.00	2008-10-19	Portsmouth Island.NC	17.25	AL KWARZIANY	Relw/oT	11
WALKER, STEVE	209026	2008-08-25	Naval Base Fishing Pier	15.50	2008-09-18	Drum Inlet. NC	15.00	CHARLES TERRY	Relw/T	24
WALKER, STEVE	209072	2008-08-30	Naval Base Fishing Pier	14.00	2008-09-04	Corolla-False Cape-Duck, NC	14.00	TED KRONENWETTER	Relw/oT	5
WALKER, STEVE	209082	2008-08-30	Naval Base Fishing Pier	14.00	2008-09-07	Oregon Inlet, North Carolina	15.00	KEVIN BROWN	Relw/oT	8
KUMJIAN, ANDREW	204199	2008-10-15	Naval Base Fishing Pier	16.25	2008-11-08	Hatteras , NC (Surf) Rmp55	15.50	WILLIAM KINDERVATER	Relw/NT	24
WALKER, STEVE	210859	2008-09-07	Off Dam Neck Oceanfront	13.00	2008-09-09	Corolla-False Cape-Duck, NC	12.00	SHARON PACIOREK	Relw/T	2
WALKER, STEVE	210883	2008-09-26	Off Dam Neck Oceanfront	13.00	2008-10-03	Oregon Inlet, North Carolina	17.00	JEFFREY CLIFTON	Relw/oT	7
Whitley, Kevin	209155	2008-08-22	Off Fisherman's Island	26.00	2008-09-30	Corolla-False Cape-Duck, NC	26.00	WARD WELLS	KILLED	39
KUMJIAN, ANDREW	204156	2008-08-31	Off Sandbridge Oceanfront	14.50	2008-11-15	Pungo River	14.00	LEE RADCLIFF	Relw/oT	76
FREEMAN , CRAIG	199388	2008-06-22	Plumtree Flats; Plumtree Bar	20.50	2008-11-01	KittyHawk, NC	25.00	JERRY MCGHEE	KILLED	132
Lawrence, Ed	208926	2008-10-12	Rappahannock River-Middle	17.75	2008-11-04	Corolla-False Cape-Duck, NC	18.75	STEVE AULT	KILLED	23
Guyot, Rick	166101	2006-10-24	Rudee Inlet	15.50	2008-03-01	Pamlico Sd., NC N. area	0.00	JESUS CALDERON	KILLED	494
Braendle, Brad	172837	2007-03-24	Rudee Inlet	16.00	2008-03-24	Pamlico Sd, NC S. off Cedar Is	26.50	LEROY GOODWIN	KILLED	366
Lucy, Jon	134195	2007-04-03	Rudee Inlet	16.25	2008-03-23	Croatian Sound, NC	NULL	RON SAULMAN	KILLED	355
Lucy , Jon	192735	2008-04-16	Rudee Inlet	18.75	2008-10-24	Corolla-False Cape-Duck, NC	24.00	PETE SANNER	Relw/oT	191
Marquedant, Matt	200419	2008-08-12	Rudee Inlet	18.00	2008-09-10	Kittyhawk, Southrn Shores	20.00	RON HOWARD	KILLED	29
Miller, Don	193260	2008-09-13	Rudee Inlet	14.75	2008-09-18	Corolla-False Cape-Duck, NC	14.50	PAUL ERNST	Relw/T	5
Miller, Don	193260	2008-09-13	Rudee Inlet	14.75	2008-10-03	Pamlico River, NC	16.50	DAVE WELLER	Relw/T	20
Barnhart, David	199764	2008-09-27	Rudee Inlet	16.00	2008-12-16	Pamlico Sd, NC behind Avon	17.00	LORAN O'NEAL	Relw/oT	80
Barnhart, David	199765	2008-09-27	Rudee Inlet	16.75	2008-09-30	Corolla-False Cape-Duck, NC	16.00	BOBBY JARVIS	Relw/oT	3
KUMJIAN, ANDREW	204160	2008-09-12	Virginia Beach Surf	13.00	2008-09-16	Hatteras Inlet, NC	12.00	ROBERT WOODARD	Relw/T	4
Lawrence, Ed	207556	2008-09-02	Ware River	13.00	2008-09-29	Duck, NC Research Pier	17.00	MARGARET SUPPLER	Relw/oT	27
Lucy, Jon	214933	2008-09-22	Ware River	15.00	2008-11-03	Corolla-False Cape-Duck, NC	14.50	JOE PANARAS	Relw/T	42
Lawrence, Ed	208872	2008-09-30	Ware River	15.25	2008-10-31	Pamlico Sd., NC N. area	16.25	JEFF MERRILL	KILLED	31
Purcell, Doug	195594	2008-10-06	Ware River	10.50	2008-11-24	Cape Point, N.C - The Point	15.75	ROBERT KEIPER	Relw/T	49
Lucy, Jon	134433	2007-09-11	Winter Harbor	22.00	2008-11-29	Buxton, NC surf	28.50	JOE SIMMONS	Relw/oT	445
Lucy, Jon	191529	2007-09-11	Winter Harbor	24.00	2008-01-15	Cape Point, N.C - The Point	26.25	Lee Haller	KILLED	126
Shepherd, Ed	217051	2008-10-05	York R. Glouc. Pt. Fish Pier	14.00	2008-11-05	Cape Point, N.C - The Point	14.00	RICK ROGERS	Relw/oT	31
Shepherd, Ed	166991	2006-10-27	York River Hot Ditch	14.00	2008-09-16	Ocracoke Island	27.00	RONALD MOZINGO	KILLED	690
Shepherd, Ed	168163	2006-11-06	York River Hot Ditch	12.50	2008-01-04	Cape Point, N.C - The Point	22.00	Mike Donaldson	KILLED	424
Shepherd, Ed	168188	2006-11-06	York River Hot Ditch	13.00	2008-02-20	Charleston, SC (in comm.l catch)	24.00	David Guerin	KILLED	471
Shepherd, Ed	163152	2006-11-08	York River Hot Ditch	12.50	2008-09-19	Hatteras Inlet, NC	26.75 ?	ANGLER	KILLED	681
Shepherd, Ed	146896	2006-11-14	York River Hot Ditch	15.00	2008-03-01	Pamlico River, NC	NULL	JESUS CALDERON	KILLED	473
Lawrence, Ed	153109	2007-01-14	York River Hot Ditch	15.75	2008-03-30	Hatteras Inlet, NC	25.00	DON ODEN	KILLED	441
Bartlett, Brandon	172550	2007-05-19	York River Hot Ditch	14.00	2008-04-14	Pamlico Sd, NC S. off Cedar Is.	24.00	RALPH DANIELS	Relw/oT	331
Shepherd, Ed	188370	2007-10-15	York River Hot Ditch	17.50	2008-02-26	Pamlico Sd. NC Swan Qtr. Area	18.00	DAVID BRINN	KILLED	134

Table 9A. (cont.) Sub-adult Red Drum Movement from Virginia to North Carolina Waters (2007 and 2008 recaptures by tag location).

2008 Recaptures										
Tagger	Tag No.	Tag Date	Tag Location	Tg Lth	Rcp Date	Recapture Location	RLth	Recap Angler	Result	Days Out
Shepherd , Ed	194074	2007-12-29	York River Hot Ditch	15.00	2008-10-23	Oregon Inlet, North Carolina	26.00	JACK HESSINGS	KILLED	299
Shepherd , Ed	194113	2008-03-20	York River Hot Ditch	15.00	2008-11-21	Oregon Inlet, North Carolina	24.00	MIKE KNOELLER	KILLED	246
TAYLOR, JOHN	204963	2008-08-28	York River Hot Ditch	14.00	2008-09-04	Corolla-False Cape-Duck, NC	17.50	SHIRLEY TURRELL	KILLED	7
Vinson, Scott	209578	2008-09-19	York River Hot Ditch	13.00	2008-10-15	Pamlico River	15.50	RAY TEMPLE	Relw/oT	26

Table 9B. Select Sub-Adult Red Drum Movement Records from Virginia to North Carolina Waters (2007-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Approximate Movement Period	Virginia Tag Location	Rep Date	North Carolina Recapture Location	Days Out	Approx. Straight Line Dist. (mi.)	Miles Per Day
2007 Recapture Year										
B. Poulter	184891	21.0	8/19/07	Oct. 07	Cape Henry Area	11/20/07	Avon, NC Surf	93	116	1.3
J. Lucy	191535*	23.5	9/11/07	Oct. 07	Winter Harbor (N. of New Point)	11/11/07	Oregon Inlet, NC	61	117	1.9
J. Lucy	191538*	23.25	9/11/07	Fall 07	Winter Harbor	12/18/07	Avon, NC Surf	98	148	1.5
K. Whitley	182927	15.0	9/14/07	Fall 07	Little Creek Jetties	11/20/07	Hatteras Inlet, NC	67	148	2.2
E. Lawrence	173940	21.25	9/21/07	Fall 07	Winter Harbor	12/31/07	Hatteras Inlet, NC	101	171	1.7
J. Duell	186464	16.5	9/23/07	Fall 07	Monitor Merrimac Bridge Tunnel	12/6/07	Oregon Inlet, NC	74	107	1.4
T. Lowry	187301	24.0	10/9/07	Fall 07	Back River Reef	12/9/07	Buxton, NC Surf	61	141	2.3
2008 Recapture Year										
E. Shepherd	188370	16.5	10/15/07	Fall 07	York River Hot Ditch	2/26/08	Pamlico Sound, Swan Quarter, NC	134	182	1.4
G. Wocjik	205513	11.0	8/16/08	Sept. 08	Goodwin Is. Mouth Y.R.	9/30/08	Oregon Inlet, NC	45	103	2.3

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Approximate Movement Period	Virginia Tag Location	Rep Date	North Carolina Recapture Location	Days Out	Approx. Straight Line Dist. (mi.)	Miles Per Day
S. Walker	209026	15.5	8/25/08	Sept. 08	Norfolk Naval Base Pier	9/18/08	Drum Inlet, NC	24	104	8.1
S. Walker	209082	14.0	8/30/08	Sept. 08	Norfolk Naval Base Pier	9/7/08	Oregon Inlet, NC	8	101	12.6
B. Hampton	196343	13.5	8/30/08	Sept. 08	Back River	9/12/08	Avon Pier, NC	13	138	10.6
D. Purcell	195594	10.5	9/1/08	Oct. 08	Ware River, Mobjack Bay	11/24/08	Cape Point, Hatteras, NC	49	162	3.3
A. Kumjian	204160	13.0	9/12/08	Sept. 08	Virginia Beach Surf	9/16/08	Hatteras Inlet, NC	4	133	32.8
D. Miller	193260	14.75	9/13/08	Sept. 08	Rudee Inlet	10/3/08	Pamlico Sound, NC	20	105	5.2
K. Whitley	208734	12.0	9/22/08	Sept. 08	Little Creek Jetties	9/30/08	Kitty Hawk, NC	8	75	9.4
S. Walker	210883	13.0	9/26/08	Sept. 08	Off Dam Neck Oceanfront	10/3/08	Oregon Inlet, NC	7	71	10.1
E. Shepherd	217051	14.0	10/5/08	Oct. 08	York River, Gloucester Pt. Fish Pier	11/5/08	Cape Point, Hatteras, NC	31	188	6.1
A. Kumjian	204199	16.25	10/15/08	Oct. 08	Norfolk Naval Base Pier	11/8/08	Hatteras Ramp 55, NC	24	142	5.9

* Double tagged for tag retention trials; fish # 191535 had both tags when captured after 61 DAL as did Fish # 191538 after 98 DAL.

Table 10. Adult Red Drum (30-54 in TL): Tagging Effort, Recaptures and Overall Recapture Rates by Tagging Year (1997-2008).

Tag Year*	No. Drum Tagged	Recapture Year					Total by 2008	Recap Rate
		Tag Year	Tag Year +1	Tag Year +2	Tag Year +3	Tag Year +4		
1997	93	0 (97)	0 (98)	0 (99)	1 (00)	0 (01)	1	1.1%
1998	79	0 (98)	0 (99)	1 (00)	0 (01)	0 (02)	1	1.3%
1999	99	1 (99)	0 (00)	0 (01)	0 (02)	0 (03)	1	1.0%
2000	49	0 (00)	0 (01)	0 (02)	0 (03)	0 (04)	0	0%
2001	131	1 (01)	0 (02)	0 (03)	0 (04)	0 (05)	1	0.8%
2002	276	5 (02)	1 (03)	1 (04)	0 (05)	0 (06)	7	2.5%
2003	210	2 (03)	4 (04)	1 (05)	0 (06)	0 (07)	7	3.3%
2004	259	0 (04)	2 (05)	0 (06)	0 (07)	--	2	0.8%
2005	269	3 (05)	1 (06)	4 (07)	--	--	8	3.0%
2006	305	1 (06)	2 (07)	--	--	--	3	1.0%
2007	250	1 (07)	0 (08)	--	--	--	1	0.1%
2008	205	0 (08)	--	--	--	--	0	0%

* From 1995-2000 adult drum were primarily tagged with small and large plastic tip dart tags plus some T-Bar tags. In 2001, 57% of adult red drum were tagged with larger, more robust Hallprint Stainless Steel Dart Tags (SSDT); SSDT use in adult red drum was: 77% (2002), 80% (2003), 93% (2004), 85% (2005), and 90%+ (2006-2008).

Table 11A. Adult Red Drum Movement Within Year and Year-to-Year in Virginia Waters (1996-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Recap Date	Recapture Location	Days Out	Remarks & Recap Angler
Tagged Virginia – Recaptured Virginia								
C. Paige	11345	44	6/13/96	Inner Middle Ground Shoal	6/16/96	Inner Middle Ground Shoal ('96)	3	Killed – C. Lloyd, 42 in TL
L. Savage	11256	47	6/5/98	Cobb Island, Surf	5/23/00	Cobb Island Surf ('98 to '00)	718	Rel w/o tag – B. Herlihy, 47 in. TL
S. Wray	35534	44.5	5/26/99	Inner Middle Ground Shoal	6/1/99	Inner Middle Ground Shoal ('99)	6	Rel W/TAG – A. Thompson, 46.5 in TL
M. Firestone	57092	27	8/15/99	Rudee Inlet	8/22/99	Rudee Inlet ('99)	7	Rel W/TAG – M. Firestone, 27 in TL
M. Firestone	57092	27	8/15/99	Rudee Inlet	9/10/99	Rudee Inlet ('99)	26	Killed – J. Lawson, Double Recapture, 33.5 in TL ?
W. Seymour	69412	28	5/16/00	Rudee Inlet	5/17/00	Rudee Inlet ('00)	1	Killed – K. Eliason, 28.5 in TL
D. Cline	31198	35.5	6/20/01	Myrtle Island Surf	7/13/01	Wreck Island Surf ('01)	23	Rel w/o tag – H. Parker, gut hook when tagged, 35 in TL
R. Holtz	31398	28	8/29/01	Lynnhaven River	9/22/01	Lynnhaven Inlet ('01)	34	Killed – S. Lauter, 27 in TL
D. Cline	31232	33	5/5/02	Wreck Island Surf	8/10/02	Wreck Island Surf ('02)	97	Killed – S. Froehlich, 33 in TL

Table 11A. (cont.) Adult Red Drum Movement Within Year and Year-to-Year in Virginia Waters (1996-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Remarks & Recap Angler
D. Cline	38844	34.5	5/5/02	Wreck Island Surf	6/7/04	Inner Middle Ground Shoal ('02 to '04)	764	Rel w/o tag – D. Poe, 40 in TL, Lg Plast DL Tag
D. Cline	31238	34	5/6/02	Wreck Island Surf	6/1/02	ES Barrier Island Surf ('02)	26	Rel W/NEW TAG – D. Cline, 34 in TL, 36 in TL, SSdT
R. Guyot	87235	42	6/16/02	Middle Ground	6/12/03	Inner Middle Ground Shoal ('02 to '03)	361	Rel W/TAG – C. Brown, 42 in TL, SSdT
D. Cline	87969	36	8/31/02	Wreck Island Surf	9/18/02	Wreck Island Surf ('02)	18	Rel W/TAG – D. Cline
D. Cline	103002	49	9/14/02	Wreck Island Surf	9/14/02	Wreck Island Surf ('02)	0	Rel W/NEW TAG – D. Cline, 49 in TL, SSdT
D. Cline	103012	48	9/17/02	Wreck Island Surf	9/30/02	Wreck Island Surf ('02)	13	Rel W/TAG – D. Cline, 48 in TL, SSdT (SSdT)
D. Cline	103081	48	10/7/03	Smith Island Surf	10/20/03	Smith Island Surf ('03)	13	Rel W/TAG – D. Cline, 48 in TL, SSdT
D. Cline	103038	44	5/26/03	Ship Shoal Surf	6/17/03	Inner Middle Ground Shoal ('03)	22	Rel w/o tag – J. Collier, 49 in TL, SSdT
D. Cline	38844	34.5	5/5/02	Wreck Island Surf	6/7/04	Inner Middle Ground Shoal ('02 to '04)	764	Rel w/o tag – D. Poe, 40 in TL, Lg Plast DL Tag

Table 11A. (cont.) Adult Red Drum Movement Within Year and Year-to-Year in Virginia Waters (1996-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Remarks & Recap Angler
D. Cline	103050	41	5/31/03	Ship Shoal Island Surf	6/15/04	Inner Middle Ground Shoal ('03 to '04)	381	Rel w/o tag – J. Sparrow, 48 in TL, SSDT
R. Guyot	103636	43	6/12/03	Inner Middle Ground Shoal	6/18/04	Inner Middle Ground Shoal ('03 to '04)	372	Rel W/TAG – K. Ringer, 45 in TL, SSDT
J. Johnson	103733	45	6/16/03	Ship Shoal Channel Surf	6/7/04	Wreck Island Surf ('03 to '04)	357	Rel W/TAG – J. Johnson, 45 in TL, SSDT
D. Cline	103088	43	10/16/03	Cobb Island Surf	10/6/04	Hog Island Surf ('03 to '04)	356	Rel w/o tag – M. Gillett, 43.5 in TL, SSDT
D. Cline	103560	48.5	5/13/04	Smith Island Surf, N. End	6/14/05	Cobb Island Surf, S. End ('04 to '05)	397	Rel W/TAG – B. Vaughan, 48.5 in TL, SSDT
D. Cline	103816	32	10/8/04	Smith Island Surf N. End	6/30/05	Wreck Island Surf ('04 to '05)	265	Rel w/o tag – A. Smith, 36.5 in TL, SSDT
D. Miller	104638	48	6/8/05	Inner Middle Ground 9 ft. Shoal	10/13/05	Sandbridge, Little Island Pier ('05)	127	Rel w/o tag – R. Hall, 51 in TL, SSDT
J. Johnson	140939	38	5/11/06	Ship Shoal Island Surf	6/22/06	Cobb Island Surf ('06)	42	Rel w/o tag – G. Kohler, 40 in TL, TB Tag
D. Harris	103705	36	7/16/05	Inner Middle Ground Shoal	6/8/06	Smith Island Inlet ('05 to '06)	327	Rel W/TAG – W. Gooch, 37 in TL, SSDT

Table 11A. (cont.) Adult Red Drum Movement Within Year and Year-to-Year in Virginia Waters (1996-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Remarks & Recap Angler
J. Young	130946	44	8/7/05	Inner Middle Ground Shoal	8/22/07	Smith Island Inlet ('05 to '07)	745	Killed – J. Seaman, 53 in TL, TB Tag

Table 11B. Adult Red Drum Movement between Virginia and North Carolina Waters (2003-2008).

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Tag Location	Rcap Date	Recapture Location	Days Out	Remarks & Recap Angler
Tagged Virginia – Recaptured North Carolina								
D. Cline	103041	45	5/26/03	Off Ship Shoal Island Sandbar	6/13/05	Off Frisco, NC 2.5 mi. ('03 to '05)	749	Rel w/o tag – S. Jones, Charter-Chaser, not meas. SSdT
D. Poe	104570	45.5	9/24/05	Sandbridge, Little Island Pier	11/30/07	Rodanthe, NC Surf ('05 to '07)	797	Tag on Beach – G. Fritter, SSdT
D. Casady	104721	43	9/26/05	Sandbridge, Little Island Pier	8/12/07	Pamlico River, NC ('05 to '07)	685	Rel w/o tag – A. Parker, 50 in TL, SSdT
D. Casady	104917	48	10/12/05	Sandbridge, Little Island Pier	11/6/05	Avon Pier, Avon, NC ('05)	25	Rel W/TAG – L. Scarborough, not meas. SSdT
D. Casady	104926	47.5	10/16/05	Sandbridge, Little Island Pier	6/19/07	Neuse River, NC ('05 to '07)	611	Rel w/o tag – D. Mason, 39 in TL, SSdT
M. Rinck	104410	41	7/14/06	Inner Middle Ground Shoal	7/12/07	Rodanthe, NC Surf ('06 to '07)	363	Tag on Beach, no fish - K. Price, SSdT
W. Seymour	160753	50	10/1/06	Off Sandbridge Oceanfront	5/26/07	Off Smith Island ('06 to '07)	237	Rel W/NEW TAG – B. Griffith, 52 in TL, TB Tag Removed SSdT
J. Johnson	179201	32	9/1/07	Ship Shoal Island Surf	10/3/07	Ship Shoal Island Surf ('07)	32	Rel W/TAG – B. Vaughan, 31.25 in TL, TB Tag

Table 11B. (cont.) Game Fish Program Tagged Adult Red Drum Movement between Virginia and North Carolina Waters (2003-2008).

Tagged VA Tagger in North Carolina – Recaptured Virginia								
J. Miller	37203	32.5	9/26/97	Cape Point, NC	9/28/00	Sandbridge Little Island Pier ('97 to '00)	1098	Rel w/o tag – A. Villalpundo, 37.5 in TL

Table 12. Late Summer-Fall Movement of Speckled Trout from Virginia Bay and Rudee Inlet Waters to North Carolina Waters 2004-2008.

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Virginia Tagging Location	Recap Date	North Carolina Recapture Location	Days to Recapture	Approx. Straight Line Distance (miles)	Estimated Movement Rate (mi./day)
2004 – Tagging Year									
J. Young	115275	15.5	9/17/04	Poquoson Flats	2/22/05	Frisco, NC Surf	158	150	0.9
R. Fortier	62105	13.0	9/22/04	Lynnhaven (Broad Bay)	11/30/04	Bear Inlet, NC Surf (below Atlantic Beach)	69	233	3.4
J. Young	130912	15.0	9/22/04	Poquoson Flats	1/23/04	Atlantic Beach, NC (Iron Steamer Pier)	62	235	3.8
C. Newsome	126564	16.0	10/01/04	Piankatank River	11/21/04	Rodanthe, NC Surf	51	150	2.9
R. Fortier	62147	13.0	10/13/04	Lynnhaven River	10/31/04	Pamlico Sound, NC (Swanquarter)	18	152	8.4
R. Guyot	128905	13.0	10/17/04	Rudee Inlet	10/26/04	Oregon Inlet, NC	9	75	8.3
D. Wehner	130201	12.0	10/22/04	Sandbridge Surf	10/27/04	Pamlico Sound, NC (Juniper Bay, Swanquarter)	5	128	25.6
M. Hardisty	114112	17.0	11/06/04	Piankatank River	1/20/05	Cape Point, NC	75	175	2.3
2005 – Tagging Year									
D. Miller	143128	11.5	10/16/05	Rudee Inlet	11/21/05	Bogue Sound, Beaufort Causeway, NC	36	185	5.1

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Virginia Tagging Location	Recap Date	North Carolina Recapture Location	Days to Recapture	Approx. Straight Line Distance (miles)	Estimated Movement Rate (mi./day)
D. Barnhart	143970	11.3	10/16/05	Rudee Inlet	12/3/05	Deer Creek, Bogue Sound, NC	48	185	3.9
J. Lucy	126411	18.5	10/20/05	Lynnhaven Inlet	12/15/05	Newport River (Core Creek), Beaufort, NC	56	185	3.3
B. Knapp	143402	13.3	10/29/05	Lynnhaven Inlet	11/5/05	Kill Devil Hills, NC Surf	7	73	10.4
J. Lucy	135805	13.3	11/02/05	Lynnhaven Inlet	11/8/05	Corolla, NC Surf	6	30	5.0
J. Lucy	126891	17.0	11/21/05	Lynnhaven Inlet	2/21/06	Pamlico Sound (Stumpy Pt. Bay - N. portion)	92	103	1.1
2006 – Tagging Year									
H. Green	156175	19	9/16/06	Hampton Roads Bridge Tunnel (HRBT)	12/12/06	Kitty Hawk, NC Surf	87	81	0.9
B. Knapp	164944	14.5	9/17/06	Lynnhaven Inlet	2/2/07	Cape Point, NC	138	130	0.9
C. Johnson	132985	14.75	9/21/06	Magothy Bay Eastern Shore	1/7/07	Cape Lookout, NC	108	213	2.0
H. Green	156191	19.0	9/30/06	HRBT	10/20/06	Hatteras, NC Surf S. Ramp	26	137	5.3
D. Miller	160567	15	10/21/06	Rudee Inlet	10/21/006	Corolla, NC Surf	17	33	1.9
K. Whitley	165879	14.0	10/01/06	Little Creek Jetties	11/27/06	Wrightsville Beach, NC Jetty	57	245	4.3
K. Whitley	165930	17.0	10/18/06	Little Creek Jetties	10/31/06	Nags Head Surf (Coquina Beach)	13	84	6.5

Tagger	Tag No.	Fish Lth (in.)	Tag Date	Virginia Tagging Location	Recap Date	North Carolina Recapture Location	Days to Recapture	Approx. Straight Line Distance (miles)	Estimated Movement Rate (mi./day)
D. Casady	150236	12.0	10/29/06	Rudee Inlet	12/15/06	Cape Lookout, NC Rock Jetty	47	190	4.0
J. Lucy	109024	19	10/31/06	Lynnhaven Inlet	11/20/06	Kitty Hawk, NC Surf	20	69	3.4
S. Vinson	164610	12.0	11/1/06	York River Hot Ditch	4/21/07	Vandemere Creek, Bay River, NC	171	191	1.1
K. Whitley	16770	21	12/06/06	Little Creek Jetties	12/06/06	Behind Hatteras Island, NC	25	131	5.2
2007 – Tagging Year									
D. Purcell	134499	19.0	10/10/07	Piankatank River	1/8/08	Pamlico Sound off Hatteras Village, NC	90	187	2.1
E. Lawrence	173987	11.5	10/16/07	Ware River Mobjack Bay	11/24/07	Harker's Island, NC	39	231	5.9
G. Green	181298	12.0	10/17/07	Hampton Roads Bridge Tunnel	5/10/08	Neuse River, NC	206	165	0.8
G. Green	187871	16.5	11/9/07	Hampton Roads Bridge Tunnel	12/11/07	Kitty Hawk - Southern Shores, NC	32	81	2.5
G. Green	180618	16.75	12/14/07	Hampton Roads Bridge Tunnel	4/14/08	Albemarle Sound, NC	122	122	1.0
2008 – Tagging Year									
E. Shepherd	207791	9.0	9/11/08	York River Hot Ditch	11/24/08	Beaufort Inlet, NC	74	242	3.3

FIGURES

Figure 1. Number of Tagged Fish 2000-2008

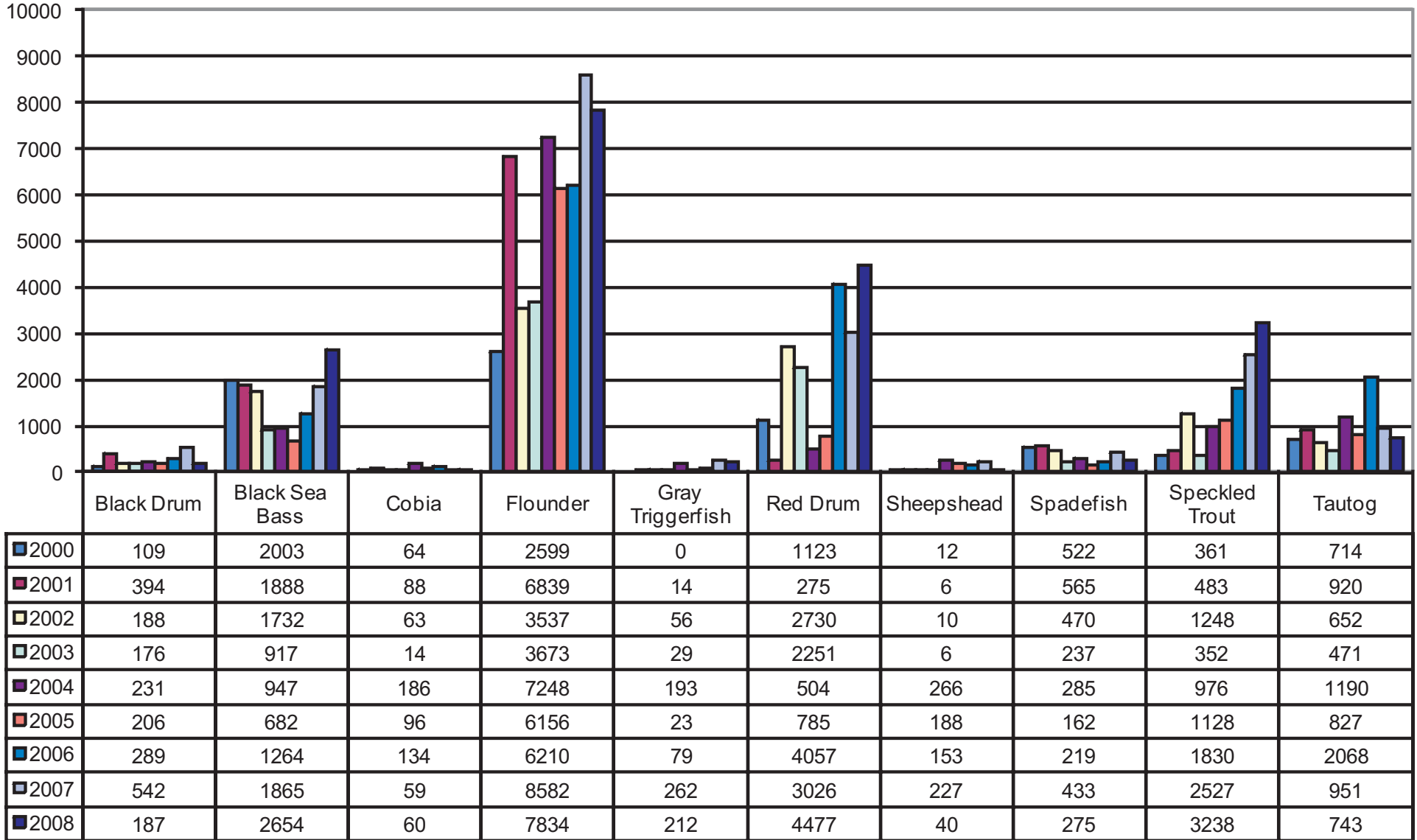
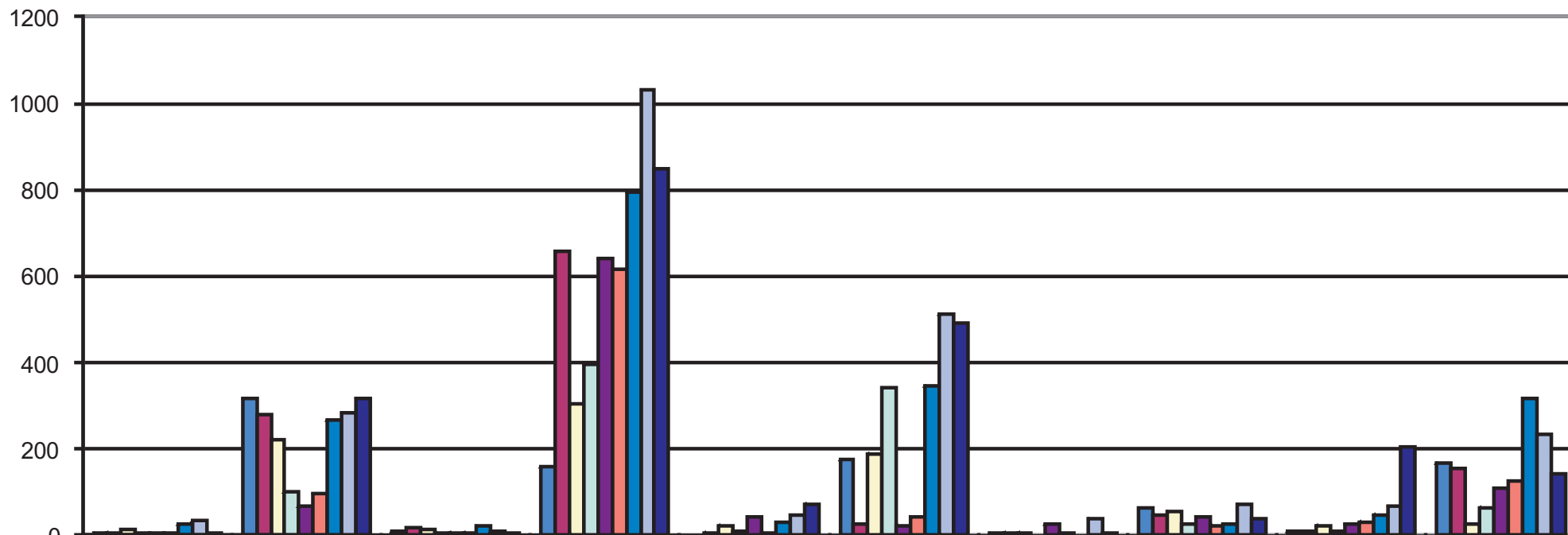
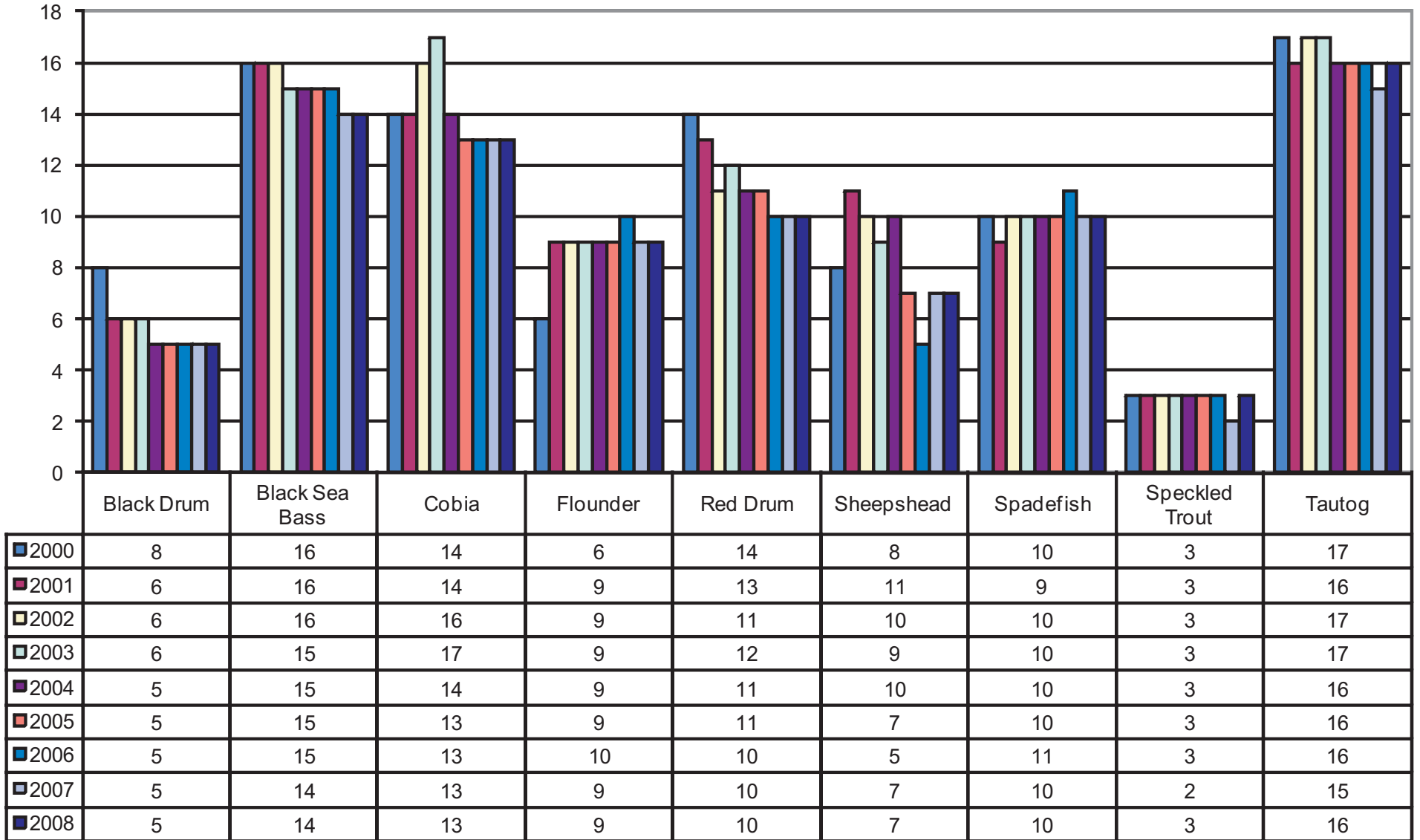


Figure 2. Number of Recaptured Fish 2000-2008



	Black Drum	Black Sea Bass	Cobia	Flounder	Gray Triggerfish	Red Drum	Sheepshead	Spadefish	Speckled Trout	Tautog
2000	5	316	11	161	0	177	1	66	12	167
2001	4	279	18	659	2	25	1	49	10	157
2002	15	224	15	304	23	187	1	54	21	29
2003	2	100	6	396	12	343	0	27	9	66
2004	5	68	6	643	42	22	27	43	26	110
2005	4	98	4	618	4	42	3	24	30	128
2006	29	267	22	797	32	348	0	28	47	318
2007	37	286	12	1030	47	513	41	71	68	233
2008	6	318	7	850	74	493	2	41	206	142

Figure 3. Cumulative Recapture Rates (%) 2000-2008



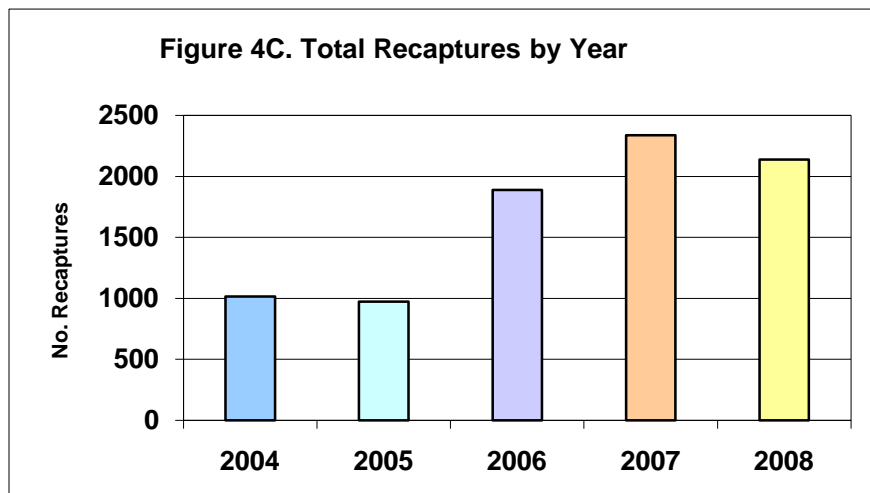
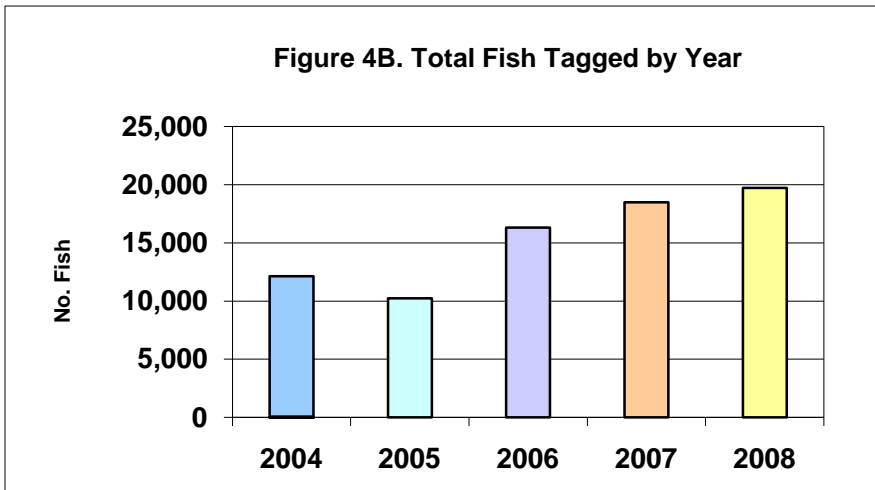
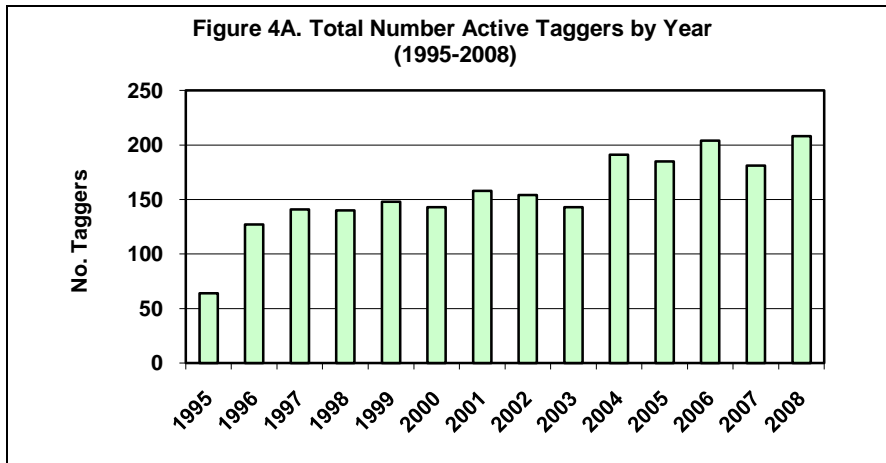


Figure 5. Annual Variation in Anglers' Total Tagging Effort 2004-2008

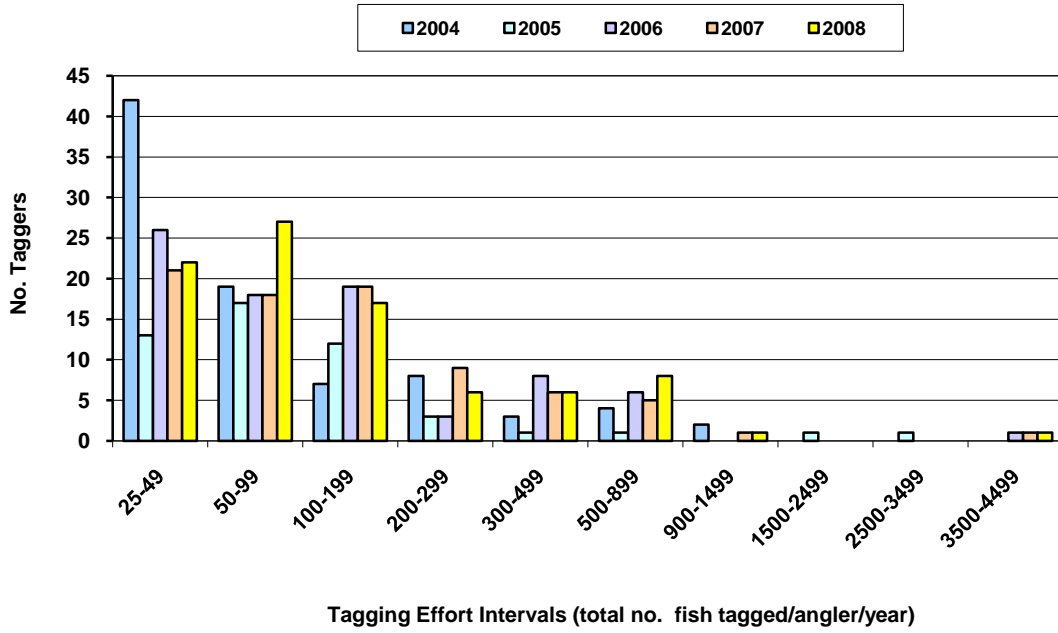


Figure 6. Juvenile Black Drum (7-13 in.): Within-Year and Year to Year Movement from VA to NC Waters (1995-2008)

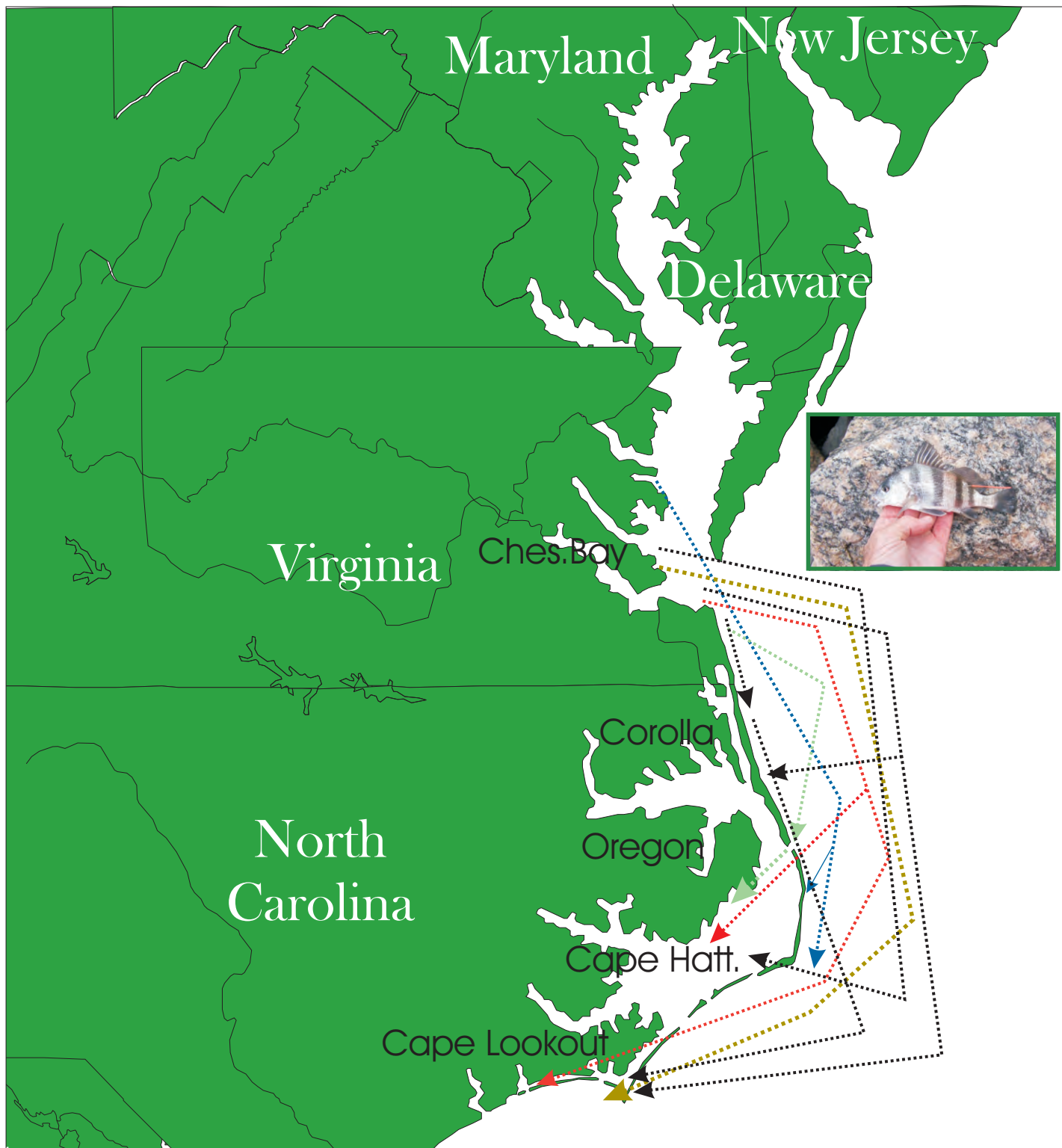


Figure 7. Adult Black Drum Site Fidelity Within Year and Year-to-Year in VA Waters and NC (1997-2008).

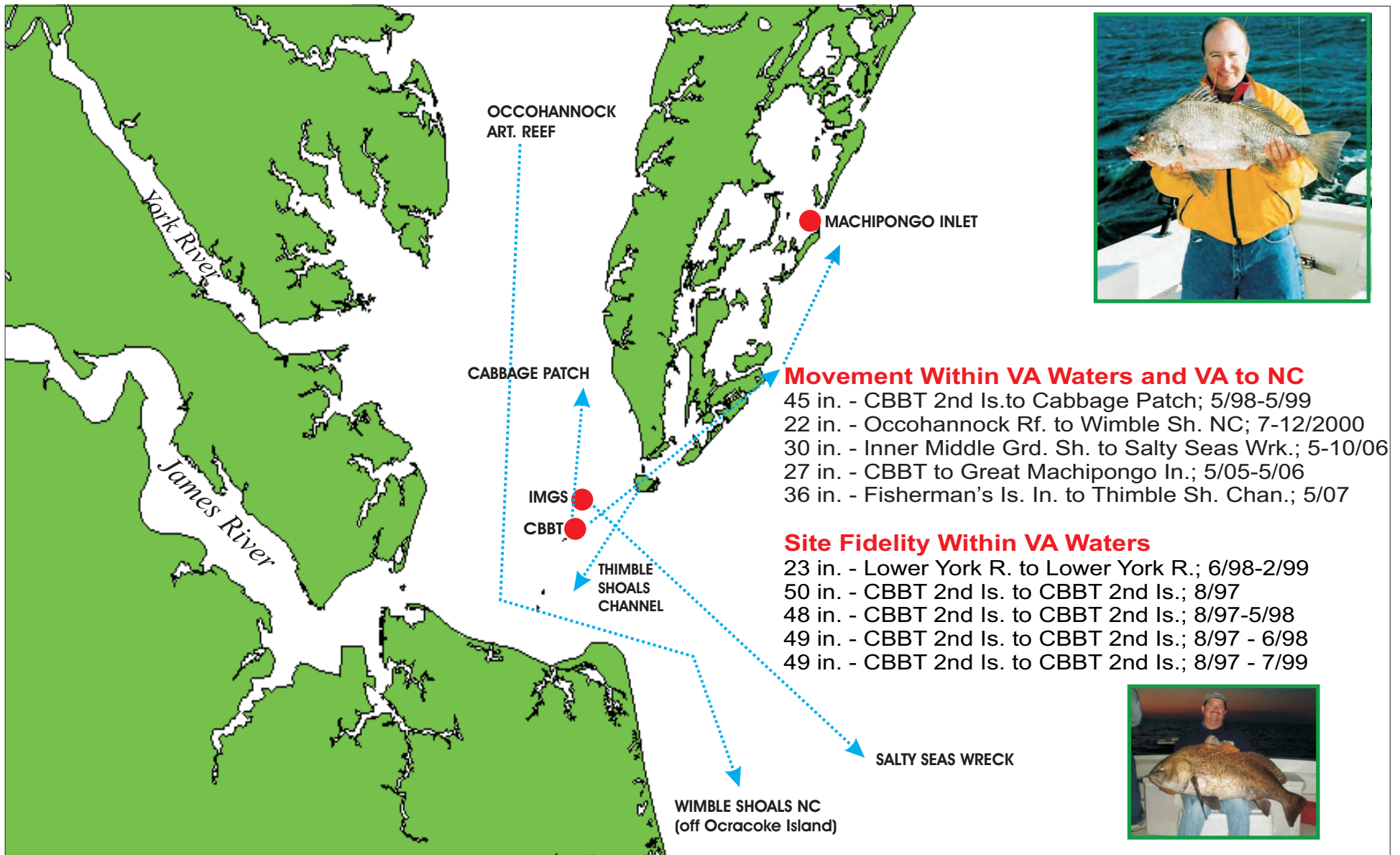
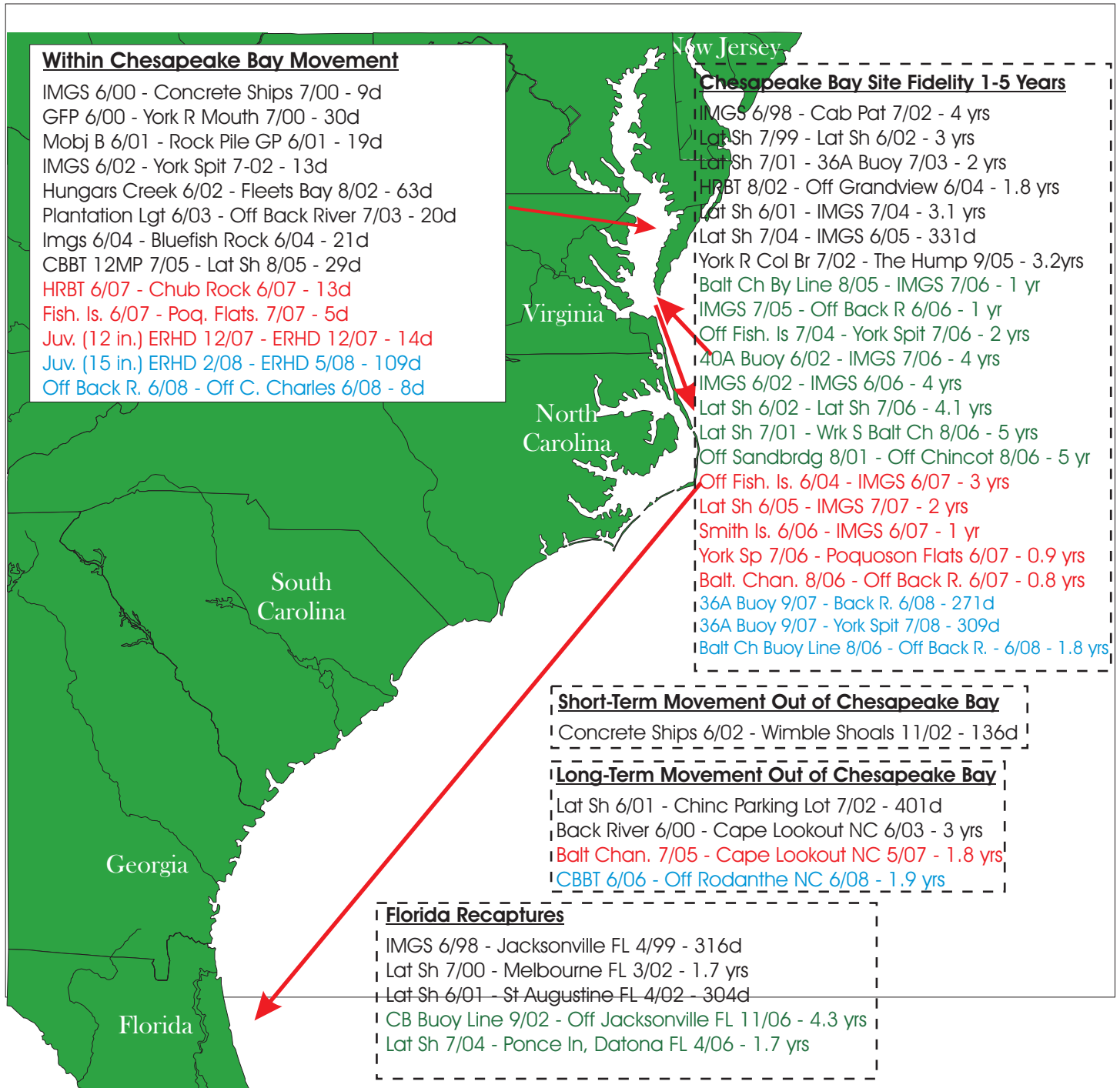


Figure 8. Adult Cobia Recaptures: Chesapeake Bay Site Fidelity and Coastal Movement (primarily 2000-2008); Records Listed in Order of Recapture Year.



Note: 2006 recapture records
 2007 recapture records
 2008 recapture records

Figure 9. Summer Flounder Site Fidelity Within Years (2004-2008)

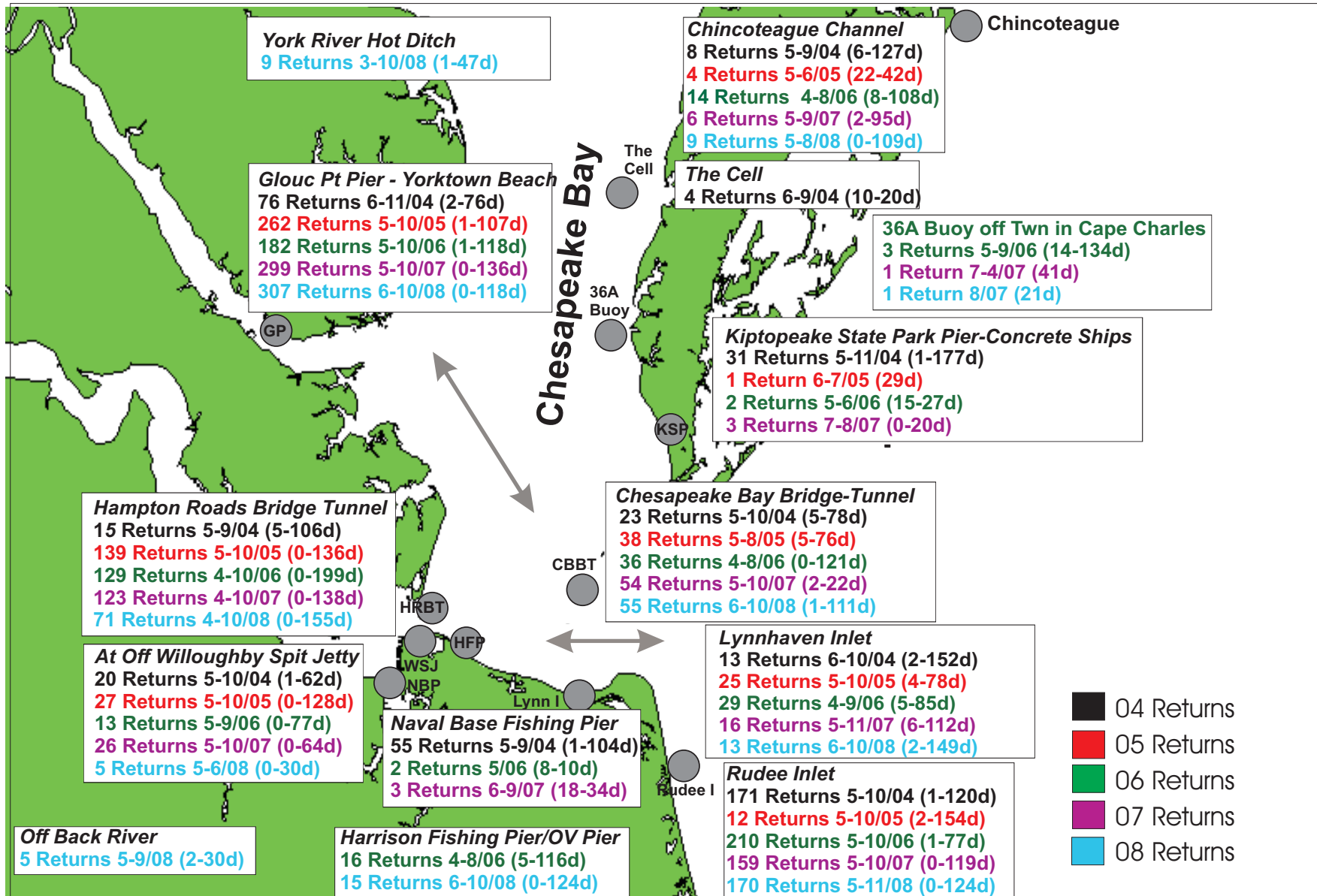


Figure 10. Flounder Long-Term Fidelity (Yr. to Yr.) to Virginia Fishing Areas (2001-2008).

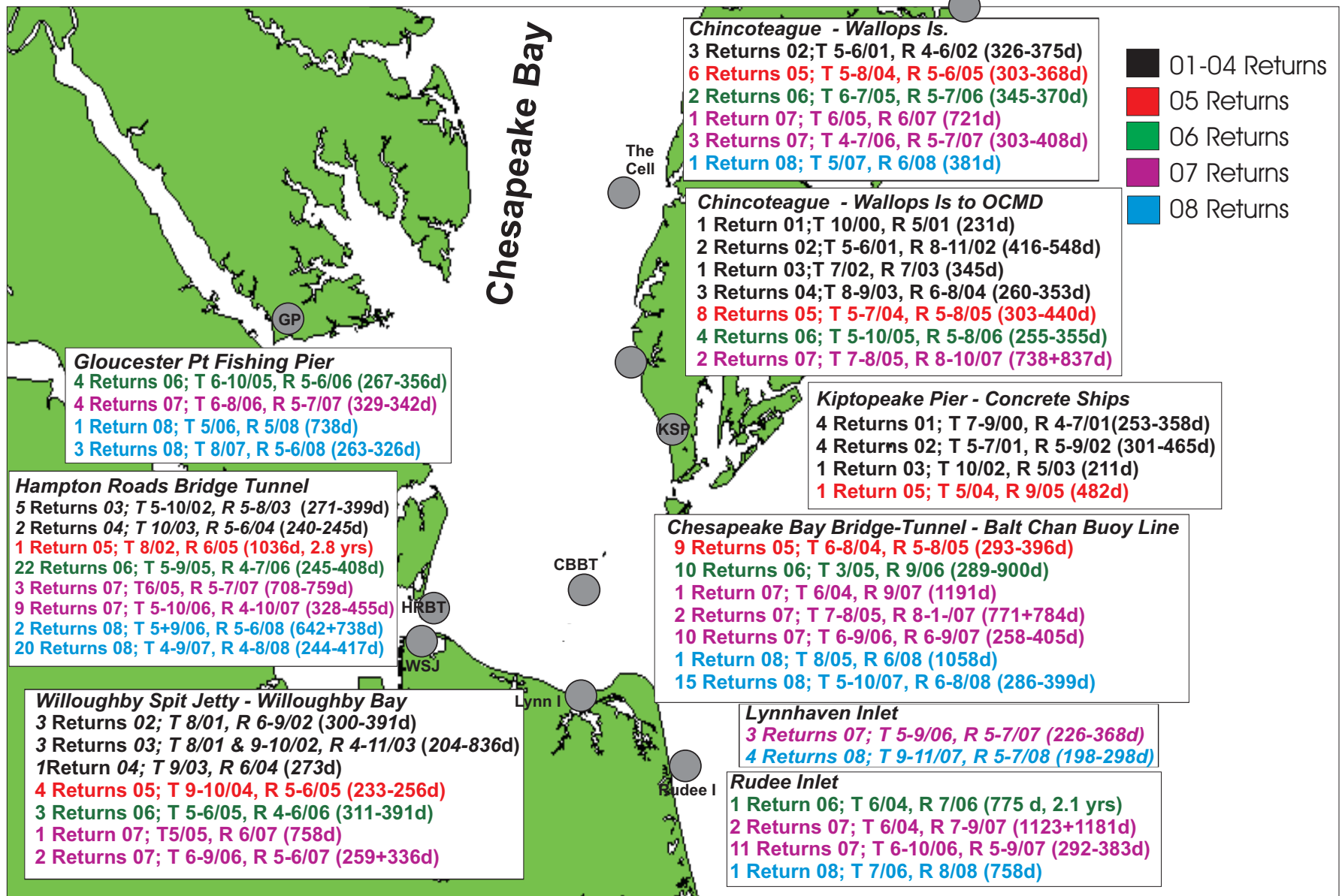


Figure 11. Coastal Movement of Flounder Tagged in Virginia 2002-2008.

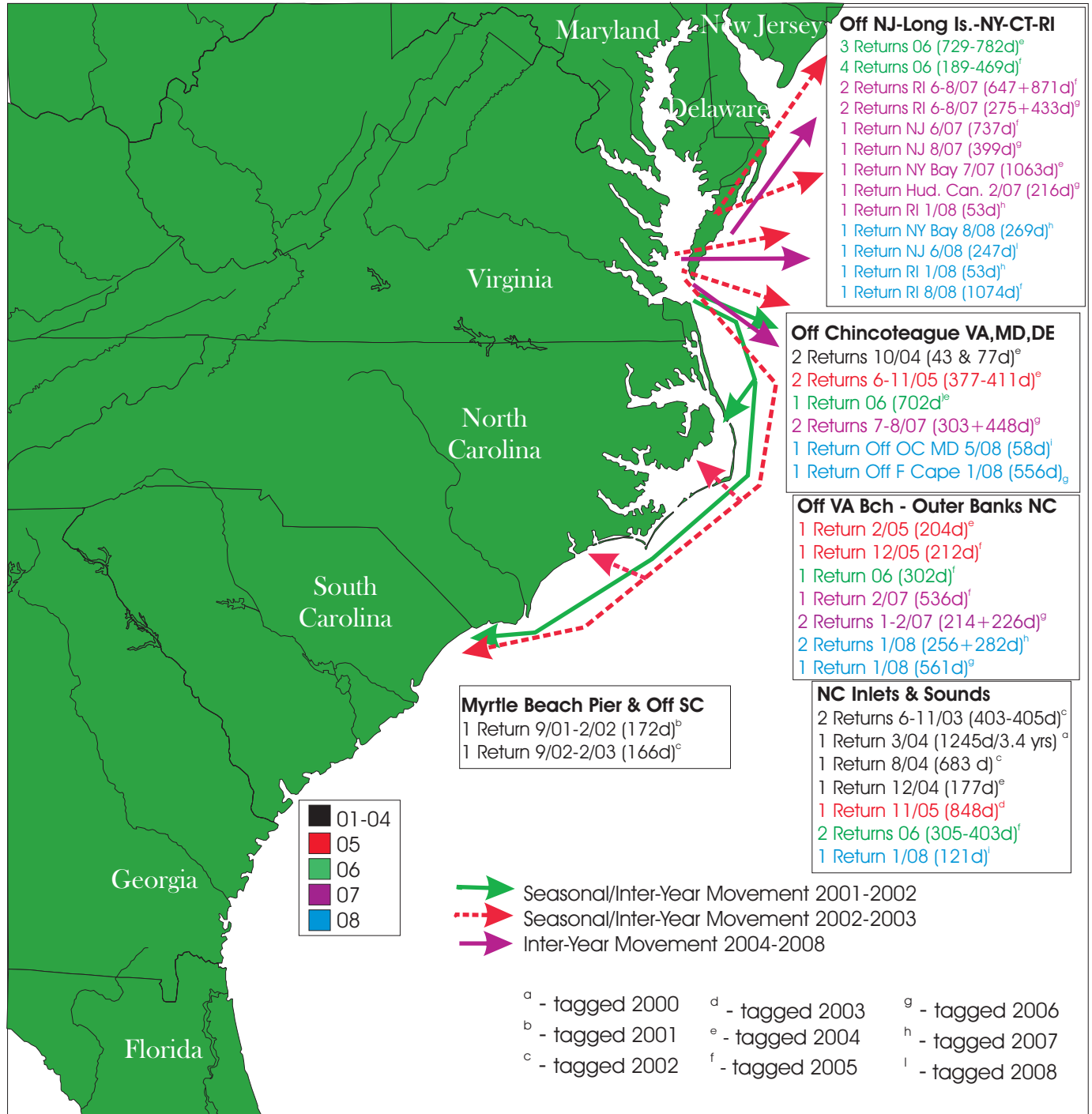


Figure 12. Flounder Single and Double Recaptures at Gloucester Point Fishing Pier York River (2006-2008).

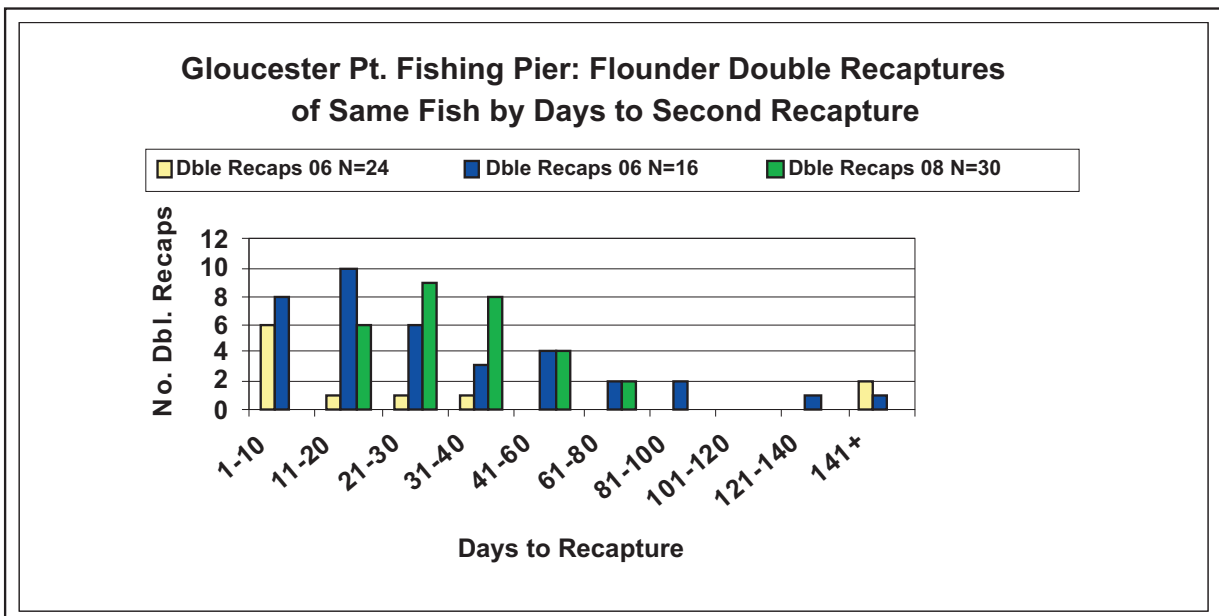
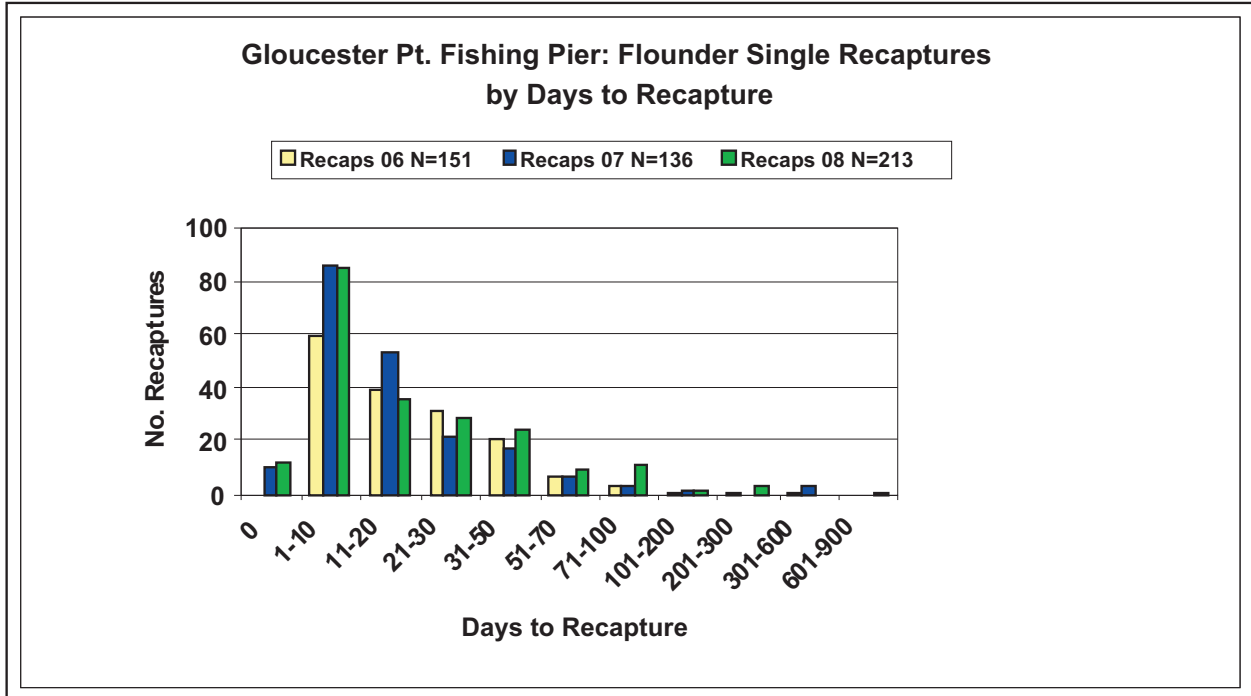


Figure 13. Tagged Red Drum Size Distribution 2006-2008.

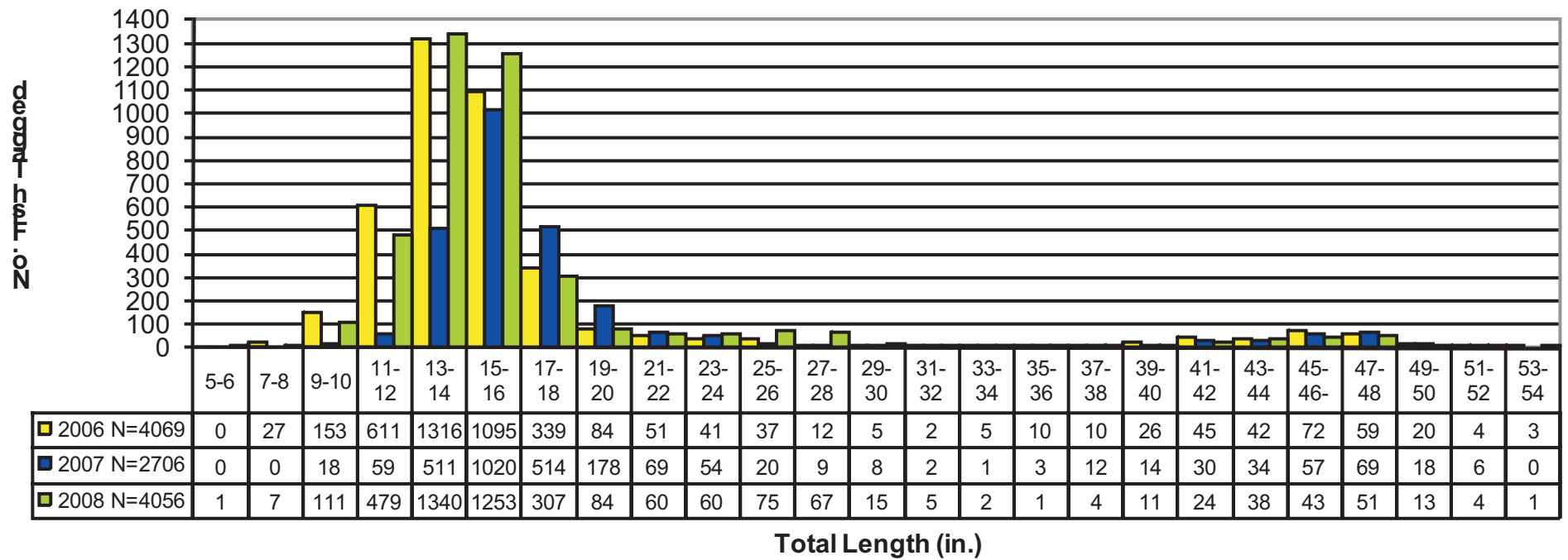


Figure 14. Typical Late Summer-Fall Movement of Sub-adult Red Drum from the Bay and Rudee Inlet (2005-2008).

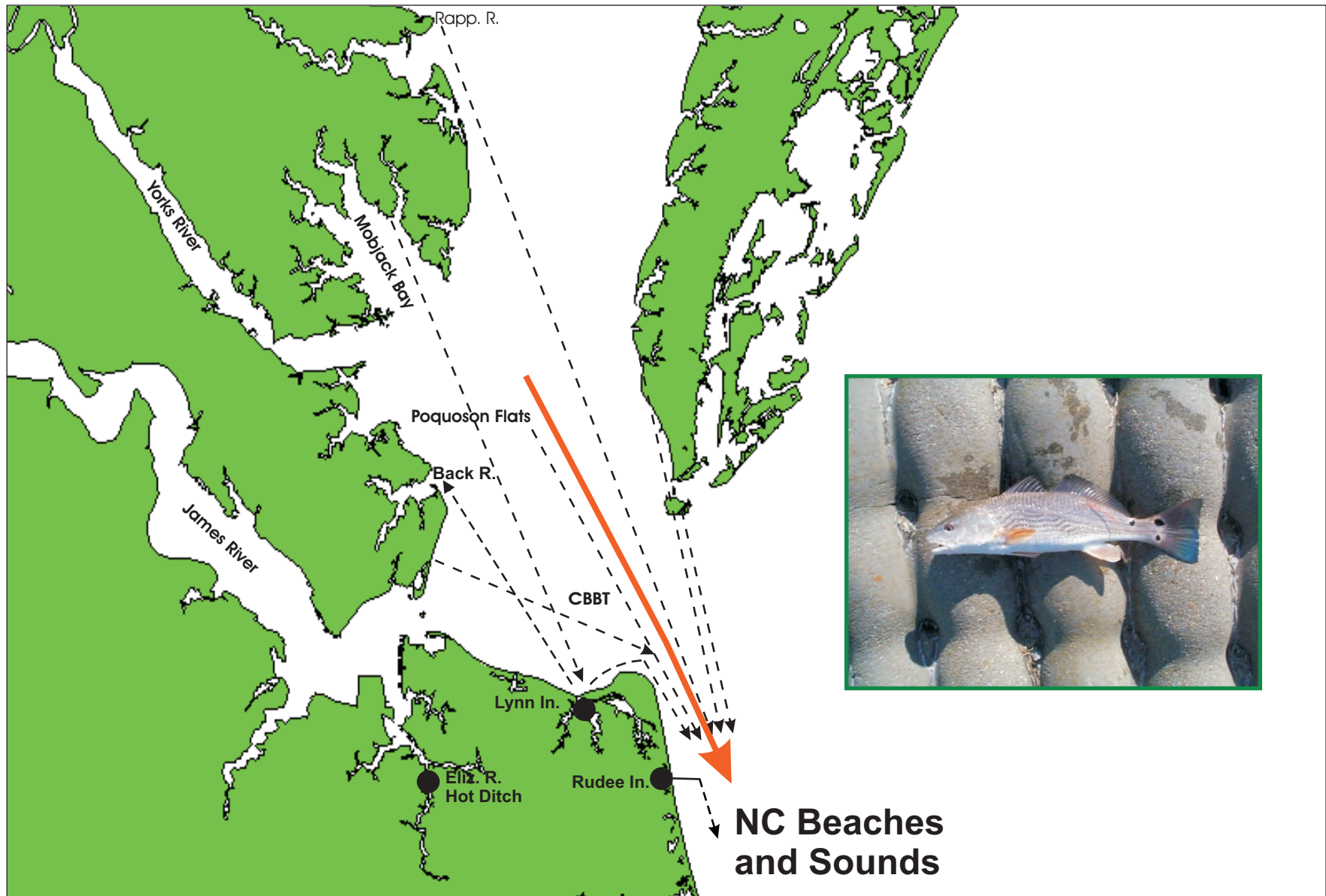


Figure 15. Sub-Adult Red Drum Movement from VA Power Plant Areas (Recaptures 2004-2008).

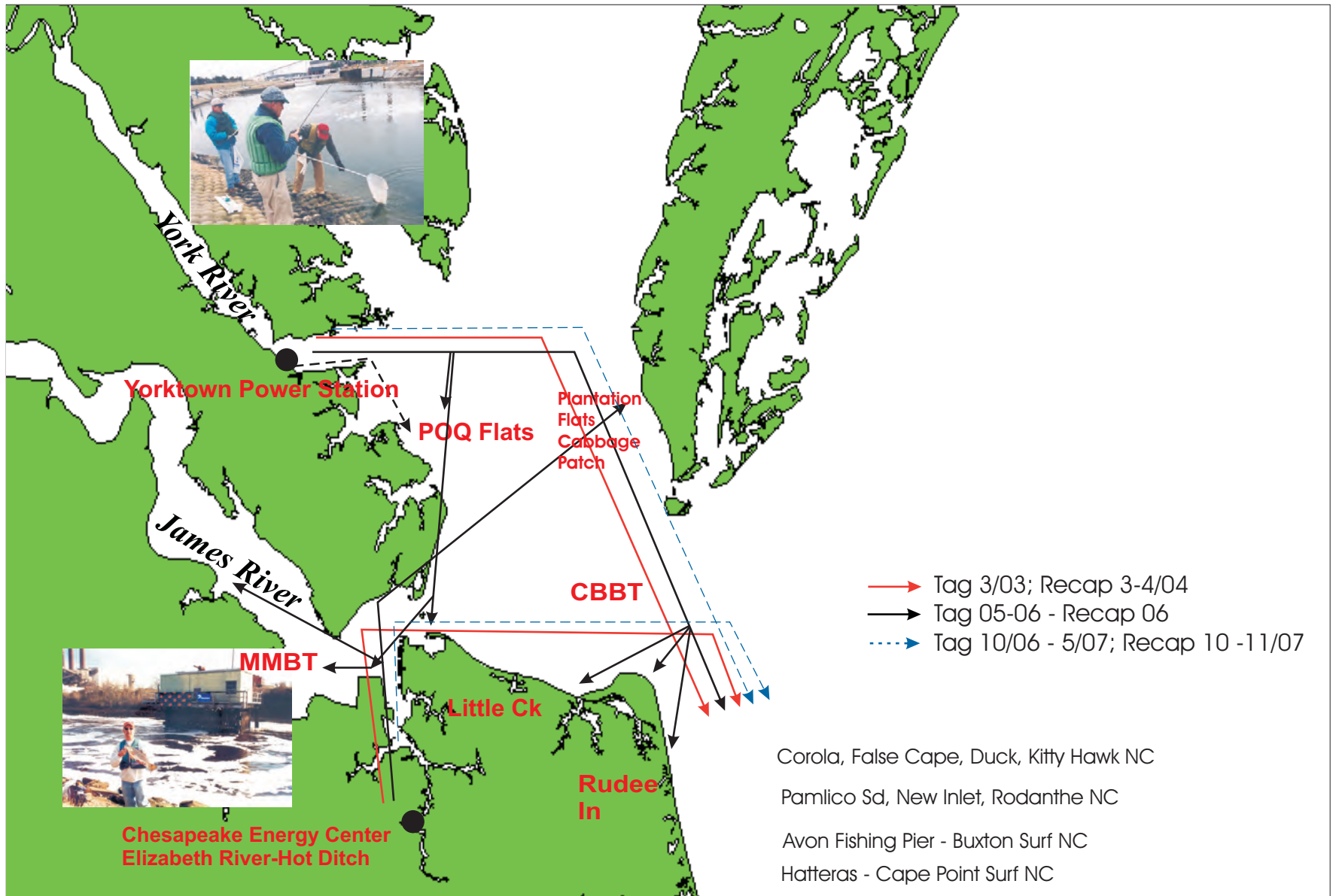


Figure 16. Adult Red Drum Movement NC to VA Waters and VA to NC Waters (1986-2008)

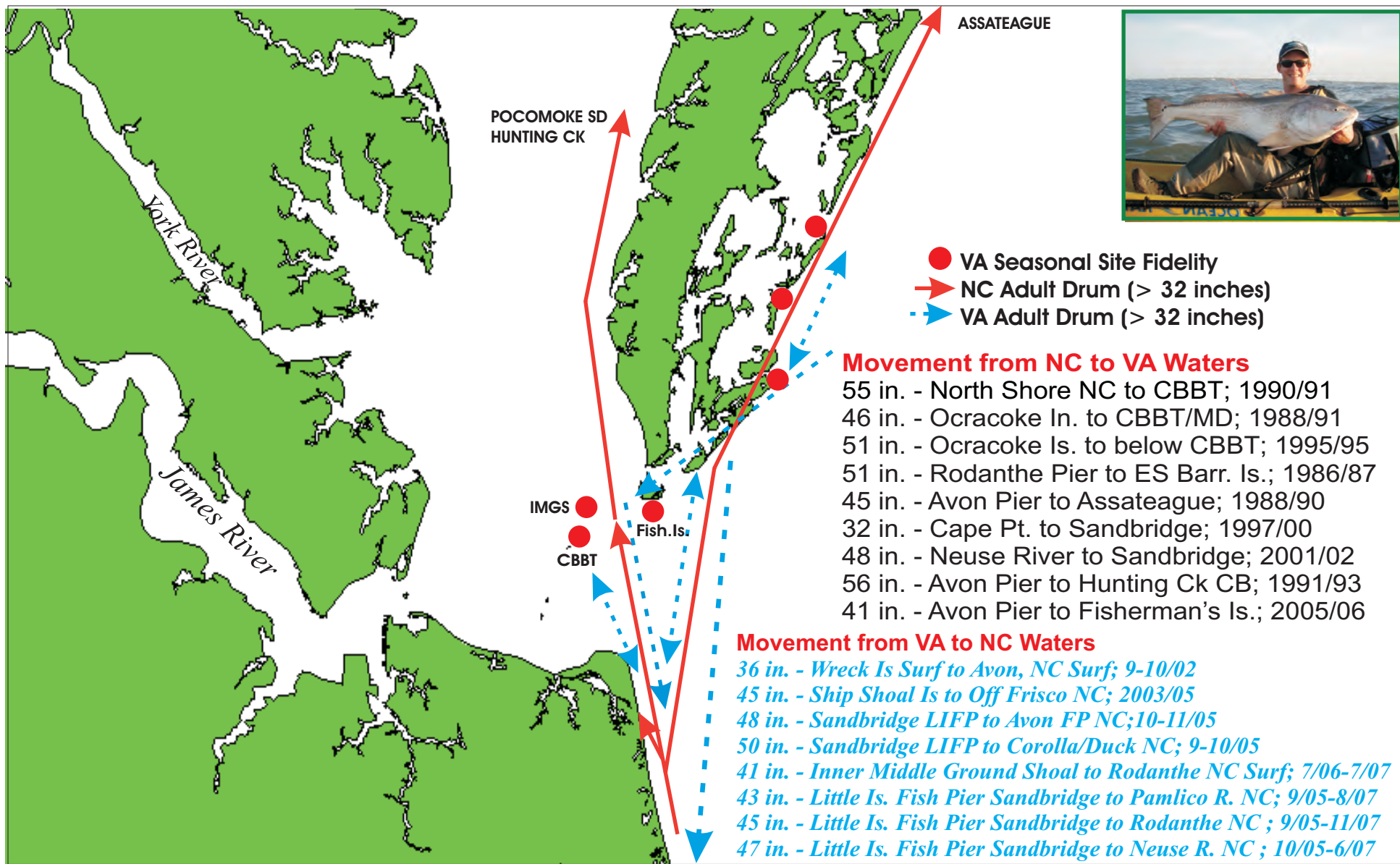


Figure 17. Long Distance Speckled Trout Movement VA to NC (2004-2008).

