



Mid-Atlantic Fishery Management Council
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Richard B. Robins, Jr., Chairman | Lee G. Anderson, Vice Chairman
Christopher M. Moore, Ph.D., Executive Director

MEMORANDUM

Date: November 30, 2015

To: Chris Moore

From: Julia Beaty

Subject: Unmanaged forage amendment - list of species and range of alternatives

The Unmanaged Forage Fishery Management Action Team (FMAT) met in Boston, MA on November 16, 2015 to discuss recommendations for which forage species to address in the Unmanaged Forage Omnibus Amendment and to develop an initial range of management alternatives for analysis.

List of Possible Forage Species

The FMAT developed a comprehensive (though still draft) list of forage taxa (i.e. species and broader classifications such as families) for consideration in the amendment. The list includes:

- Taxa identified as important prey for eleven Council-managed predators based on the Northeast Fisheries Science Center (NEFSC) Food Habits Database¹
- Taxa defined as potentially important prey for any sampled fish in the NEFSC bottom trawl survey from the Mid-Atlantic region²
- Taxa recommended during the public scoping process
- Taxa identified as forage species in the Mid-Atlantic during a literature review

The resulting list contains 264 taxa (Table 1). The FMAT provided the following information, which can be used to prioritize the list:

- Which of the four criteria above were met for each taxa

¹ The eleven Council-managed predators include summer flounder, scup, black sea bass, mackerel, longfin squid, shortfin squid, butterfish, bluefish, spiny dogfish, monkfish, and blueline tilefish. There were no stomach content data on golden tilefish, surfclams, or ocean quahogs in the NEFSC Food Habits Database. "Important" was defined as those prey which made up more than 0.1% of the relative mean stomach weight for each of the 11 predators

² The FMAT defined "potentially important" prey as those which were identified in at least two fish stomachs from offshore areas in the Mid-Atlantic. The areas defined as "offshore" in the Food Habits Database roughly correspond to federal waters.

- If adults in that taxa are commonly larger than 25 cm³
- If the taxa could possibly support a directed fishery⁴

The FMAT would also like to provide the following information, but was not able to do so prior to the briefing book deadline:

- If the taxa is common or rare in the Mid-Atlantic
- If the taxa is rare outside of state waters
- If the taxa has been recorded in the diet of marine mammals

The FMAT believes that all of the above information will be useful; however, the FMAT recommends that the Council use only the following information as key decision criteria:

- If the taxa was identified as a potentially important prey item for one or more predators in the Mid-Atlantic, with higher weight given to those identified as important prey for Council-managed predators
- If the taxa is common or rare in the Mid-Atlantic
- If the taxa is rare outside of state waters
- If the taxa could possibly support a directed fishery

Using the information summarized to date, the FMAT identified 28 of the 264 taxa as likely to be good candidates for inclusion in the amendment, 107 taxa as not likely to be good candidates, and 129 as possible good candidates (Table 1).

Alternatives for analysis

The FMAT developed the following statement of purpose for the unmanaged forage amendment, as required by the National Environmental Policy Act (NEPA): *“Use the Council’s discretionary authority to prohibit the expansion of existing or development of new directed fisheries on unmanaged forage species in the Mid-Atlantic.”*

The FMAT developed the following list of alternatives for NEPA analysis:

1. No action
2. Prohibit harvest of certain unmanaged forage species (i.e. those designated as ecosystem components)
 - a. Prohibit all possession
 - b. Prohibit directed fishing, but allow an incidental possession limit
 - c. Prohibit all possession once a catch limit (e.g. an annual catch or landings limit) is met
3. Limit capture of certain unmanaged forage species (i.e. those designated as ecosystem components)
 - a. Limit capture through spatial closures

³ The Council’s Science and Statistical Committee previously identified 25 cm as a reasonable distinction between species which can be considered forage throughout their life cycle and those which are forage only at juvenile stages.

⁴ The FMAT used their knowledge of the life history of each taxa to decide if it could support a directed fishery. This was largely a judgement call.

- b. Limit capture through seasonal closures
- c. Limit capture through gear regulations
- 4. Administrative alternatives
 - a. Update the list of approved fisheries and gear types for Mid-Atlantic federal waters (50 CF 600.725)
 - b. Frameworkable items
 - i. List of ecosystem component species
 - ii. Spatial and seasonal closures
 - iii. Gear regulations
 - iv. Possession limits for ecosystem component species

Table 1: Forage taxa identified by the FMAT for consideration for inclusion in the unmanaged forage amendment. “Good candidate” indicates whether or not the FMAT believes the taxa could be a good candidate for inclusion in the amendment, based on information collected by the FMAT to date.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
AMMODYTES DUBIUS	NORTHERN SAND LANCE	AMMODYTIDAE	Y	N	Y	N	N	Y	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
AMMODYTES SP	SAND LANCES	AMMODYTIDAE	Y	N	Y	Y	N	Y	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
ANCHOA HEPSETUS	STRIPED ANCHOVY	ENGRAULIDAE	Y	N	Y	Y	N	Y	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
BROSME BROSME	CUSK	LOTIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
CANCER IRRORATUS	ROCK CRAB	CANCRIDAE	Y	N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
CITHARICHTHYS ARCTIFRONS	GULF STREAM FLOUNDER	PARALICHTHYIDAE	Y	N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
ENCHELYOPUS CIMBRIUS	FOURBEARD ROCKLING	LOTIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
ETROPUS MICROSTOMUS	SMALLMOUTH FLOUNDER	LOTIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
ETRUMEUS TERES	ROUND HERRING	CLUPEDIAE	Y	N	Y	Y	N	Y	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
LEPOPHIDIUM PROFUNDORUM	FAWN CUSK-EEL	OPHIDIIDAE	Y	N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
DORYTEUTHIS SP ⁶	LONGFIN SQUID	LOLIGINIDAE	Y	N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
MYOXOCEPHALUS OCTODECEMSPINOSUS	LONGHORN SCULPIN	COTTIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
OPHICHTHUS CRUENTIFER	MARGINED SNAKE EEL	OPHICHTHIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
PARALICHTHYS OBLONGUS	FOURSPOT FLOUNDER	PARALICHTHYIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
POLYMIXIA LOWEI	BEARDFISH	POLYMIXIIDAE	Y	N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
PRIONOTUS CAROLINUS	NORTHERN SEAROBIN	TRIGLIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
SCOMBER COLIAS	CHUB MACKEREL	SCOMBRIDAE	Y	N	N	N	N	Y	LIKELY	FISHERY OCCURING
SCOMBERESOX SAURUS	ATLANTIC SAURY	SCOMBERESOCIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
SYMPHURUS SP	TONGUEFISHES	CYNOGLOSSIDAE	Y	N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
UROPHYCIS REGIA	SPOTTED HAKE	PHYCIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
	LANTERNFISH	MYCTOPHIDAE	Y	N	Y	Y	N	Y	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
	SNAKE EELS	OPHICHTHIDAE	Y	N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
	CUSK-EELS	OPHIDIIDAE	Y	N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC PREDATORS, FUTURE FISHERY POSSIBLE
	KRILL	MANY (ORDER EUPHAUSIACEA)	Y	N	Y	Y	N	Y	LIKELY	IMPORTANT TO MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
	SEA MOUSE	APHRODITIDAE		N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC AND OTHER PREDATORS
	CRANGONID SHRIMP	CRANGONIDAE		N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC AND OTHER PREDATORS
	HERMIT CRABS	MANY (SUPERFAMILY PAGUROIDEA)		N	Y	Y	N	N	LIKELY	IMPORTANT TO MAFMC AND OTHER PREDATORS
	SEA ROBINS	TRIGLIDAE	Y	Y	Y	Y	N	N	LIKELY	POTENTIALLY IMPORTANT FOR MAFMC AND OTHER PREDATORS, FISHERY POSSIBLE
ABRALIA VERANYI	RUPPEL'S ABRALIA	ENOPLOTEUTHIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
AMMODYTES AMERICANUS	AMERICAN SAND LANCE	AMMODYTIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
ANCHOA MITCHILLI	BAY ANCHOVY	ENGRAULIDAE	Y	N	N	Y	N	Y	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
ANCHOA SP	ANCHOVIES	ENGRAULIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
ARGENTINA SILUS	ATLANTIC ARGENTINE	ARGENTINIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
ARGENTINA STRIATA	STRIATED ARGENTINE	ARGENTINIDAE	Y	N	N	Y	N	Y	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
ARIOMMA BONDI	SILVER RAG	ARIOMMATIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
ASPIDOPHOROIDES MONOPTERYGIUS	ALLIGATORFISH	AGONIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
BAIRDIELLA CHRYSOURA	SILVER PERCH	SCIAENIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
BATHYPOLYPUS ARCTICUS	SPOONARM OCTOPUS	OCTOPODIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
BREGMACEROS ATLANTICUS	ANTENNA CODLET	BREGMACEROTIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS

Table 1, continued.

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CALANUS FINMARCHICUS	COPEPOD	CALANIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
CHAULIODUS SLOANI	VIPERFISH	STOMIIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
CHLOROPHTHALMUS AGASSIZI	SHORTNOSE GREENEYE	CHLOROPHTHALMIDAE	Y	N	N	Y	N	Y	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
CONGER OCEANICUS	CONGER EEL	CONGRIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
CRYPTACANTHODES MACULATUS	WRYMOUTH	CRYPTACANTHODIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
CYPRINODON VARIEGATUS	SHEEPSHEAD MINNOW	CYPRINODONTIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
DECAPTERUS PUNCTATUS	ROUND SCAD	CARANGIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
DIPLECTRUM FORMOSUM	SANDPERCH	SERRANIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
EMERITA SPP	SAND CRABS	HIPPIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
ENGRAULIS EURYSTOLE	SILVER ANCHOVY	ENGRAULIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS

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EXOCOETUS VOLITANS	FLYING FISH	EXOCOETIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
FISTULARIA SP	CORNETFISHES	FISTULARIIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
FUNDULIDAE	KILLIFISH	FUNDULIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
FUNDULUS DIAPHANUS	BANDED KILLIFISH	FUNDULIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
FUNDULUS HETEROCLITUS	MUMMICHOG	FUNDULIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
FUNDULUS LUCIAE	SPOTFIN KILLIFISH	FUNDULIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
GASTEROSTEUS ACULEATUS	THREESPIKE STICKLEBACK	GASTEROSTEIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
GASTEROSTEUS WHEATLANDI	BLACKSPOTTED STICKLEBACK	GASTEROSTEIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
GOBIOSOMA BOSC	NAKED GOBY	GOBIIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS

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HARENGULA JAGUANA	SCALED HERRING	CLUPEIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
HELICOLENUS DACTYLOPTERUS	BLACKBELLY ROSEFISH	SEBASTIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
HEMIRAMPHUS BALAO	HALFBEAK	HEMIRAMPHIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
HEMIRAMPHUS BRASILIENSIS	HALFBEAK	HEMIRAMPHIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
HEMITRIPTERUS AMERICANUS	SEA RAVEN	HEMITRIPTERIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
HIPPOCAMPUS ERECTUS	LINED SEAHORSE	SYNGNATHIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
HIPPOCAMPUS SP	SEAHORSES	SYNGNATHIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
HYPORHAMPHUS MEEKI	MEEK'S HALFBEAK	HEMIRAMPHIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
LAGODON RHOMBOIDES	PINFISH	SPARIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
LIPARIS ATLANTICUS	ATLANTIC SEASNAIL	LIPARIDAE		N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
LIPARIS INQUILINUS	INQUILINE SNAILFISH	LIPARIDAE		N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
LIPARIS SP	SNAILFISH	LIPARIDAE		N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
LOLLIGUNCULA BREVIS	ATLANTIC BRIEF SQUID	LOLIGINIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
LUCANIA PARVA	RAINWATER KILLIFISH	FUNDULIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
LUMPENUS LUMPRETAEFORMIS	SNAKEBLenny	STICHAEIDAE		Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
LUMPENUS MACULATUS	DAUBED SHANNY	STICHAEIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
LYCENCHELYS VERRILLI	WOLF EELPOUT	ZOARCIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MACRORHAMPHOSUS SCOLOPAX	LONGSPINE SNIPEFISH	CENTRISCIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MALLOTUS VILLOSUS	CAPELIN	OSMERIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MAUROLICUS MUELLERI	MULLER'S PEARLSIDES	STERNOPTYCHIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
MAUROLICUS WEITZMANI	WEITZMANS PEARLSIDES	STERNOPTYCHIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
MELANOSTIGMA ATLANTICUM	ATLANTIC SOFT POUT	ZOARCIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MEMBRAS MARTINICA	ROUGH SILVERSIDE	ATHERINOPSIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MENIDIA BERYLLINA	INLAND SILVERSIDE	ATHERINOPSIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MENIDIA MENIDIA	ATLANTIC SILVERSIDE	ATHERINOPSIDAE	Y	N	N	Y	N	Y	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
MICROGADUS TOMCOD	TOMCOD	GADIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MORONE AMERICANA	WHITE PERCH	MORONIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MULLUS AURATUS	RED MULLET/ GOAT FISH	MULLIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
MYOXOCEPHALUS AENAEUS	GRUBBY	COTTIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
NEMICHTHYS SCOLOPACEUS	SLENDER SNIPE EEL	NEMICHTHYIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
NEREIS SPP	CINDER WORMS	NEREIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
OPHIDION GRAYI	BLOTCHED CUSK-EEL	OPHIDIIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
OPHIDION MARGINATUM	STRIPED CUSK-EEL	OPHIDIIDAE		Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
OPISTHONEMA OGLINUM	ATLANTIC THREAD HERRING	CLUPEDIAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
OSMERUS MORDAX	RAINBOW SMELT	OSMERIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
OTOPHIDIUM OMOSTIGMUM	POLKA-DOT CUSK-EEL	OPHIDIIDAE		Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
OVALIPES OCELLATUS	LADY CRABS	PORTUNIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
PALAEEMONETES SPP	GRASS SHRIMP	PALAEEMONIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
PARASUDIS TRUCULENTA	LONGNOSE GREENEYE	CHLOROPHTHALMIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
PERICLIMENES AMERICANUS	AMERICAN GRASS SHRIMP	PALAEEMONIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
PERISTEDION MINIATUM	ARMORED SEAROBIN	PERISTEDIIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
PHOLIS GUNNELLUS	ROCK GUNNEL	PHOLIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
PLEURONECTES PUTNAMI	SMOOTH FLOUNDER	PLEURONECTIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
ROSSIA MEGAPTERA	BIG FIN BOBTAIL SQUID	SEPIOLIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
ROSSIA PALPEBROSA	WARTY BOBTAIL SQUID	SEPIOLIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
SARDINELLA AURITA	SPANISH SARDINE	CLUPEDIAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
SELENE SETAPINNIS	ATLANTIC MOONFISH	CARANGIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
SEMIROSSIA TENERA	LESSER SHINING BOBTAIL	SEPIOLIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
STOLOTEUTHIS LEUCOPTERA	BUTTERFLY BOBTAIL SQUID	SEPIOLIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
SYMPHRUS PLAGIUSA	BLACKCHEEK TONGUEFISH	CYNOGLOSSIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
SYNGNATHUS FUSCUS	NORTHERN PIPEFISH	SYNGNATHIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
SYNGNATHUS SP	PIPEFISH	SYNGNATHIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
TAUTOGOLABRUS ADSPERSUS	CUNNER	LABRIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
TRACHINOCEPHALUS MYOPS	SNAKEFISH	SYNODONTIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
TRIGLOPS MURRAYI	MOUSTACHE SCULPIN	COTTIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
TRINECTES MACULATUS	HOGCHOKER	ACHIRIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
UCA PUGNAX	FIDDLER CRABS	OCYPODIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
ULVARIA SUBBIFURCATA	RADIATED SHANNY	STICHAEIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
UROPHYCIS CHESTERI	LONGFIN HAKE	PHYCIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
ZENOPSIS CONCHIFERA	BUCKLER DORY	ZEIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
	LANCETFISH	ALEPISAUURIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	ATHERINIDS (NEW WORLD SILVERSIDES)	ATHERINOPSIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	TOADFISHES	BATRACHOIDIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	BELONIDS (NEEDLEFISH)	BELONIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	DRAGONET FISH	CALLIONYMIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	PUPFISHES	CYPRINODONTIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	FLYING FISH	EXOCOETIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	HALF BEAKS	HEMIRAMPHIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	WORMFISHES	MICRODESMIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	MULLETS	MUGILIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	HAGFISHES	MYXINIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	BUTTERFISHES ⁶	STROMATEIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	STARGAZERS	URANOSCOPIDAE	Y	N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	COPEPODS	CALANIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	HIPPOLYTID SHRIMPS	HIPPOLYTIDAE	Y	N	N	N	N	Y	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	BARRACUDINAS	PARALEPIDAE		N	N	N	N	N	POSSIBLY	FUTURE FISHERY POSSIBLE, BUT NOT IMPORTANT TO MAFMC OR OTHER PREDATORS
	ARGENTINES	ARGENTINIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	BLENNY	BLENNIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	JACKS ⁶	CARANGIDAE	Y	N	N	Y	N	Y	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	GREENEYES	CHLOROPHTHALMIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	CONGER EELS	CONGRIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	SCULPINS	COTTIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	ANCHOVIES	ENGRAULIDAE	Y	N	N	Y	N	Y	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	STICKLEBACKS	GASTEROSTEIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	GOBY	GOBIIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	GRENADIERS	MACROURIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	PIPEFISHES AND SEAHORSES	SYNGNATHIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	LIZARDFISHES	SYNODONTIDAE	Y	N	N	Y	N	Y	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	PUFFERS	TETRAODONTIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	EELPOUTS	ZOARCIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	CANCER CRABS	CANCRIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	CUTTLEFISH	SEPIOLIDAE	Y	N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	SKELETON SHRIMPS	CAPRELLIDAE		N	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS
	TRIGGERFISH	BALISTIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	GOOSEFISHES	LOPHIIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
	LAMPREYS	PETROMYZONTIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
	SLIPPER LOBSTERS	SCYLLARIDAE	Y	Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
	LUMPFISHES	CYCLOPTERIDAE		Y	N	Y	N	N	POSSIBLY	POTENTIALLY IMPORTANT FOR NON-MAFMC PREDATORS, FISHERY POSSIBLE
	HYPERIID AMPHIPODS	HYPERIIDAE	N	N	Y	Y	N	N	POSSIBLY	IMPORTANT TO MAFMC AND OTHER PREDATORS, BUT FISHERY NOT LIKELY
ALOSA SP ⁶	RIVER HERRING AND SHAD	CLUPEIDAE	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
CAELORINCHUS CAELORHINCUS	SADDLED GRENADIER	MACROURIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
CARANX CRYOS	BLUE RUNNER	CARANGIDAE		Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
CARANX HIPPOS	CREVALLE JACK	CARANGIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
CENTROPRISTES SP ⁶	SEA BASSES	SERRANIDAE	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
CEPHALOPODA ⁶	SQUIDS, CUTTLEFISH AND OCTOPODS		Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
CITHARICHTHYS SP	MANY	PARALICHTHYIDAE	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
DECAPTERUS MACARELLUS	MACKEREL SCAD	CARANGIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
DOROSOMA CEPEDIANUM	GIZZARD SHAD	CLUPEDIAE	Y	Y	N	N	N	Y	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
ETROPUS SP	ETROPUS FLOUNDERS	PARALICHTHYIDAE	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
MENTICIRRHUS SAXATILIS	NORTHERN KINGFISH	SCIAENIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
MENTICIRRHUS SP	KINGFISHES	SCIAENIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
MUGIL CEPHALUS	STRIPED MULLET	MUGILIDAE	Y	Y	N	N	N	Y	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
MUGIL CUREMA	WHITE MULLET	MUGILIDAE	Y	Y	N	N	N	Y	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
MYOXOCEPHALUS SCORPIUS	SHORTHORN SCULPIN	COTTIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
MYXINE GLUTINOSA	ATLANTIC HAGFISH	MYXINIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
NAUCRATES DUCTOR	PILOTFISH	CARANGIDAE		Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
OPHIDION HOLBROOKI	BANK CUSK-EEL	OPHIDIIDAE		Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
ORTHOPRISTIS CHRYSOPTERA	PIGFISH	HAEMULIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
PARALICHTHYS SP ⁶	PARALICHTHID FLOUNDERS	PARALICHTHYIDAE	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
PEPRILUS ALEPIDOTUS	HARVESTFISH	STROMATEIDAE		Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
PRIONOTUS EVOLANS	STRIPED SEAROBIN	TRIGLIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
PRIONOTUS SP	SEA ROBINS	TRIGLIDAE	Y	Y	N	Y	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
RAJA SP ⁶	SKATES	RAJIDAE	Y	Y	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
SELAR CRUMENOPHTHALMUS	BIGEYE SCAD	CARANGIDAE	Y	Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
SPHOEROIDES MACULATUS	NORTHERN PUFFER	TETRAODONTIDAE		Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
SPHYRAENA BOREALIS	NORTHERN SENNET	SPHYRAENIDAE		Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
STOMIAS BOA	BOA DRAGONFISH	STOMIIDAE		Y	N	N	N	N	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
TRACHURUS LATHAMI	ROUGH SCAD	CARANGIDAE	Y	Y	N	N	N	Y	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
UROPHYCIS SP ⁶	HAKES	PHYCIDAE	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	RIBBONFISH	TRACHIPTERIDAE	Y	Y	N	N	N	Y	NOT LIKELY	NOT IDENTIFIED AS IMPORTANT TO MAFMC OR OTHER PREDATORS
	WRASSES	LABRIDAE	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	ALL MID WATER FISHES ⁶	MANY	Y	N	N	N	Y	Y	NOT LIKELY	GROUP TOO BROAD
	TEMPERATE BASSES ⁶	PERCICHTHYIDAE	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	GUNNELS	PHOLIDAE	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	PARROTFISHES	SCARIDAE	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	PEARLSIDES AND HATCHETFISH	STERNOPTYCHIDAE	Y	N	N	N	Y	Y	NOT LIKELY	GROUP TOO BROAD

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	SHANNIES AND PRICKLEBACKS	STICHAEIDAE	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	SHRIMP ⁶	MANY	Y	N	N	N	Y	Y	NOT LIKELY	GROUP TOO BROAD
	CHITONS	MANY (CLASS POLYPLACOPHORA)	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	ANOMURID CRABS	MANY (INFRAORDER ANOMURA)	Y	N	N	N	Y	Y	NOT LIKELY	GROUP TOO BROAD
	BOBTAIL SQUID	MANY (ORDER SEPIOLIDA)	Y	N	N	N	Y	Y	NOT LIKELY	GROUP TOO BROAD
	BRACHIOPODS	MANY (PHYLUM BRACHIOPODA)	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	ACORN WORMS	MANY (PHYLUM HEMICHORDATA)	Y	N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	PALAEOMONID SHRIMP	PALAEOMONIDAE	Y	N	N	N	Y	Y	NOT LIKELY	GROUP TOO BROAD
	LEECHES	MANY (SUBCLASS HIRUDINEA)		N	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	SNAPPERS	LUTJANIDAE	Y	Y	N	N	Y	N	NOT LIKELY	GROUP TOO BROAD
	SHAD ⁶	CLUPEDIAE	Y	N	N	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD
	GADIFORMS ⁶	MANY (ORDER GADIFORMES)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	RAYS AND SKATES ⁶	MANY (ORDER RAJIFORMES)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	RIGHT-EYE FLOUNDERS ⁶	PLEURONECTIDAE	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	DRUMS ⁶	SCIAENIDAE	Y	N	N	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD
	ROCKFISHES, SCORPIONFISHES	SCORPAENIDAE	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	SEA BASSES ⁶	SERRANIDAE	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	SOLES AND TONGUEFISHES	SOLEIDAE	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	CLAMS, MUSSELS ⁶	MANY (CLASS BIVALVIA)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	HYDROZOANS	MANY (CLASS HYDROZOA)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	SEA SPIDERS	MANY (CLASS PYCNOGONIDA)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	BARNACLES	MANY (INFRACLASS CIRRIPIEDIA)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	DECAPODS ⁶	MANY (ORDER DECAPODA)	Y	N	N	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD
	MYSID SHRIMP	MANY (ORDER MYSIDA)	Y	N	N	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD
	ECHINODERMS	MANY (PHYLUM ECHINODERMATA)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	CNIDARIANS	MANY (PHYLUM CNIDARIA)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	TUNICATES	MANY (SUBPHYLUM UROCHORDATA)	Y	N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	STARFISH	MANY (CLASS ASTEROIDEA)		N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	OSTRACODS	MANY (CLASS OSTRACODA)		N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	TUSK SHELLS	MANY (CLASS SCAPHOPODA)		N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	WORMS	MANY (EXTREMELY BROAD, MANY PHYLA)		N	N	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD
	LANCELETES	MANY (ORDER BRANCHIOSTOMIFORMES)		N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	CUMACEAN SHRIMP	MANY (ORDER CUMACEA)		N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	ISOPODS	MANY (ORDER ISOPODA)		N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	BRYOZOANS	MANY (PHYLUM BRYOZOA)		N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	NEMATODES	MANY (PHYLUM NEMATODA)		N	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	DOGFISH SHARKS ⁶	SQUALIDAE	Y	Y	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	SPONGES	MANY (PHYLUM PORIFERA)	Y	Y	N	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	LEFT-EYE FLOUNDERS ⁶	BOTHIDAE	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	HERRINGS ⁶	CLUPEIDAE	Y	N	Y	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD
	CODFISHES ⁶	GADIDAE	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	EELS ⁶	MANY (ORDER ANGUILLIFORMES)	Y	N	Y	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	FLATFISHES ⁶	MANY (ORDER PLEURONECTIFORMES)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	MACKERELS ⁶	SCOMBRIDAE	Y	N	Y	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD
	CORALS, ANENOMES	MANY (CLASS ANTHOZOA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	SEA SQUIRTS	MANY (CLASS ASCIDIACEA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	URCHINS, SAND DOLLARS	MANY (CLASS ECHINOIDEA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	SNAILS	MANY (CLASS GASTROPODA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	SEA CUCUMBERS	MANY (CLASS HOLOTHUROIDEA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	POLYCHAETES	MANY (CLASS POLYCHAETA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	JELLYFISH	MANY (CLASS SCYPHOZOA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	DECAPOD CRABS ⁶	MANY (ORDER DECAPODA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	DECAPOD SHRIMPS ⁶	MANY (ORDER DECAPODA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	OCTOPODS	MANY (ORDER OCTOPODA)	Y	N	Y	Y	Y	Y	NOT LIKELY	GROUP TOO BROAD
	MANTIS SHRIMPS	MANY (ORDER STOMATOPODA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	ARTHROPODS ⁶	MANY (PHYLUM ARTHROPODA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD

Table 1, continued.

SPECIES NAME	COMMON NAME	FAMILY ¹	FISHERY POSSIBLE ²	>25 CM ³	IMPORTANT TO MAFMC PREDATORS ⁴	POTENTIALLY IMPORTANT FOR ALL PREDATORS ⁵	GROUP TOO BROAD	MENTIONED IN SCOPING	GOOD CANDIDATE	CANDIDATE JUSTIFICATION
	MOLLUSCS ⁶	MANY (PHYLUM MOLLUSCA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	COPEPODS	MANY (SUBCLASS COPEPODA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	CRUSTACEANS ⁶	MANY (SUBPHYLUM CRUSTACEA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	CRUSTACEAN SHRIMP ⁶	MANY (SUBPHYLUM CRUSTACEA)	Y	N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	LARVACEANS	MANY (CLASS APPENDICULARIA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	BRITTLE STARS	MANY (CLASS OPHIUROIDEA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	AMPHIPODS	MANY (ORDER AMPHIPODA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	TUNICATES	MANY (ORDER ASCIDIACEA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	MYSIDACEA	MANY (ORDERS MYSIDA AND LOPHOGASTRIDA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	ARROW WORMS	MANY (PHYLUM CHAETOGNATHA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	COMB JELLIES	MANY (PHYLUM CTENOPHORA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	FLATWORMS	MANY (PHYLUM PLATYHELMINTHES)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	GAMMARIDEA	MANY (SUBORDER GAMMARIDEA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD
	PTEROPODS	MANY (SUPERORDER PTEROPODA)		N	Y	Y	Y	N	NOT LIKELY	GROUP TOO BROAD

¹ If the taxa represents a higher classification level than a family, then the lowest possible classification level is shown.

² The FMAT used their knowledge of the life history of each taxa to determine whether or not a directed fishery is possible for that taxa. This was largely a judgement call.

³ This column indicates whether adults in that taxa commonly exceed 25 cm in length. This was considered a reasonable distinction between species that can be considered forage throughout their life cycle and those which are forage only as juveniles.

⁴ Indicates whether the taxa was identified as an important prey item for eleven Council-managed predators, including summer flounder, scup, black sea bass, mackerel, longfin squid, shortfin squid, butterfish, bluefish, spiny dogfish, monkfish, and blueline tilefish. "Important" was defined as those prey which made up more than 0.1% of the relative mean stomach weight for each of the 11 predators, as shown in the NEFSC Food Habits Database.

⁵ Indicates whether the taxa was identified as a potentially important prey item for fish species caught in bottom trawl surveys in the Mid-Atlantic. "Potentially important" prey are those which were identified in at least two fish stomachs from offshore areas in the Mid-Atlantic. The areas defined as "offshore" in the Food Habits Database roughly correspond to federal waters.

⁶ This taxa contains managed and unmanaged taxa. (A taxa is considered managed if it is managed by the New England, Mid-Atlantic, or South Atlantic Fishery Management Council or by the Atlantic States Marine Fisheries Commission.)