

## **APPENDIX**

Table A1. Species to be sampled, and maximum lengths (cm) for sampling YOY for the major sampling regions (strata sets) during 1973-76.

Species	Mid-Atlantic Bight (Strata 61-76)	Southern New England Strata (1-12)	Georges Bank (Strata 13-23, 25)	Gulf of Maine (Strata 24, 26-30, 36-40)	Scotian Shelf (Strata 31-35, 41-49)
American plaice ( <i>Hippoglossoides platessoides</i> )				7	7
Butterfish ( <i>Peprilus triacanthus</i> )	13	13			
Cod, Atlantic ( <i>Gadus morhua</i> )			20	20	20
Flounder, Fourspot ( <i>Hippoglossina oblonga</i> )	7				
Flounder, Witch ( <i>Glyptocephalus cynoglossus</i> )				7	7
Flounder, Yellowtail ( <i>Limanda ferruginea</i> )		12	12		
Haddock ( <i>Melanogrammus aeglefinus</i> )			20	20	20
Hake, Red ( <i>Urophycis chuss</i> )		20			
Hake, Silver ( <i>Merluccius bilinearis</i> )	20	20	20		
Hake, Spotted ( <i>Urophycis regia</i> )	13				
Hake, White ( <i>Urophycis tenuis</i> )				20	
Ocean Pout ( <i>Zoarces americanus</i> )		13	13		
Pollock ( <i>Pollachius virens</i> )				20	20
Redfish, Acadian ( <i>Sebastes fasciatus</i> )				7	
Sculpin, Longhorn ( <i>Myoxocephalus octodecemspinosus</i> )			7		
Scup ( <i>Stenotomus chrysops</i> )	13	13			
Skate, Little ( <i>Leucoraja erinacea</i> )		20	20		

Table A2. Offshore species to be sampled, and maximum lengths for sampling juveniles for the major sampling regions (strata sets) during 1977-80.

Species	Mid-Atlantic Bight (Strata 61-76)	Southern New England Strata (1-12)	Georges Bank (Strata 13-23, 25)	Gulf of Maine (Strata 24, 26-30, 36-40)	Scotian Shelf (Strata 31-35, 41-49)
Atlantic herring ( <i>Clupea harengus</i> )				15	
Bass, Black Sea ( <i>Centropristis striata</i> )	15				
Cod, Atlantic ( <i>Gadus morhua</i> )		20			
Dogfish, Smooth ( <i>Mustelus canis</i> )	60	60			
Dogfish, Spiny ( <i>Squalus acanthias</i> )	60	60	60	60	60
Flounder, Windowpane ( <i>Scophthalmus aquosus</i> )	10				
Flounder, Winter ( <i>Pseudopleuronectes americanus</i> )		15	15		
Goosefish ( <i>Lophius americanus</i> )		40	40	40	40
Haddock ( <i>Melanogrammus aeglefinus</i> )				20	
Hake, Red ( <i>Urophycis chuss</i> )			20	20	20
Hake, Silver ( <i>Merluccius bilinearis</i> )				20	20
Mackerel, Atlantic ( <i>Scomber scombrus</i> )			25		
Redfish, Acadian ( <i>Sebastes fasciatus</i> )					7
Skate, Winter ( <i>Leucoraja ocellata</i> )			50		
Squid, Longfin Inshore ( <i>Loligo pealeii</i> )	15	15	15		
Squid, Northern Shortfin ( <i>Illex illecebrosus</i> )	15	15	15	15	15

Table A3. Species to be sampled for inshore strata north and south of Cape Cod during 1977-80.

South of Cape Cod		North of Cape Cod	
<u>Common Name</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
All sharks, skates, and rays	Elasmobranchii	All sharks, skates, and rays	Elasmobranchii
Smooth dogfish	<i>Mustelus canis</i>	Spiny dogfish	<i>Squalus acanthias</i>
Summer flounder	<i>Paralichthys dentatus</i>	Thorny skate	<i>Amblyraja radiata</i>
Winter flounder	<i>Pseudopleuronectes americanus</i>	Atlantic wolffish	<i>Anarhichas lupus</i>
Windowpane Flounder	<i>Scophthalmus aquosus</i>	Winter flounder	<i>Pseudopleuronectes americanus</i>
Butterfish	<i>Peprilus triacanthus</i>	Witch flounder	<i>Glyptocephalus cynoglossus</i>
Scup	<i>Stenotomus chrysops</i>	Atlantic halibut	<i>Hippoglossus hippoglossus</i>
Bluefish	<i>Pomatomus saltatrix</i>	American plaice	<i>Hippoglossoides platessoides</i>
Weakfish	<i>Cynoscion regalis</i>	Cunner	<i>Tautoglabrus adspersus</i>
Black sea bass	<i>Centropristis striata</i>	Alewife	<i>Alosa pseudoharengus</i>
Spot	<i>Leiostomus xanthurus</i>	Atlantic cod	<i>Gadus morhua</i>
Atlantic croaker	<i>Micropogonias undulatus</i>	Silver hake	<i>Merluccius bilinearis</i>
Striped bass	<i>Morone saxatilis</i>	Haddock	<i>Melanogrammus aeglefinus</i>
Northern kingfish	<i>Menticirrhus saxatilis</i>	Red hake	<i>Urophycis chuss</i>
Southern kingfish	<i>Menticirrhus americanus</i>	White hake	<i>Urophycis tenuis</i>
Longfin inshore squid	<i>Loligo pealeii</i>	Northern shortfin squid	<i>Illex illecebrosus</i>

Table A4. Miscellaneous species to be sampled from specific regions and any region during 1977-1980  
(A “✓” indicates that samples were collected).

Species	Mid-Atlantic Bight	Southern New England	Georges Bank	Gulf of Maine	Western Nova Scotia	Any Region
Alewife ( <i>Alosa pseudoharengus</i> )						✓
All grenadiers (Macrouridae)						✓
Shad, American ( <i>Alosa sapidissima</i> )						✓
Argentines (Argentinidae)				✓		
Bluefish ( <i>Pomatomus saltatrix</i> )						✓
Butterfish ( <i>Peprilus triacanthus</i> )			✓			
Croaker, Atlantic ( <i>Micropogonias undulatus</i> )						✓
Cusk ( <i>Brosme brosme</i> )				✓	✓	
Cusk-eel, Fawn ( <i>Lepophidium profundorum</i> )						✓
Dory, Buckler ( <i>Zenopsis conchifera</i> )						✓
Eel, American ( <i>Anguilla rostrata</i> )						✓
Eel, Conger ( <i>Conger oceanicus</i> )						✓
Flounder, Fourspot ( <i>Hippoglossina oblonga</i> )		✓	✓			
Flounder, Gulf Stream ( <i>Citharichthys arcifrons</i> )		✓	✓			
Flounder, Summer ( <i>Paralichthys dentatus</i> )	✓	✓	✓			
Flounder, Windowpane ( <i>Scophthalmus aquosus</i> )		✓	✓			
Flounder, Winter ( <i>Pseudopleuronectes americanus</i> )				✓		
Flounder, Witch ( <i>Glyptocephalus cynoglossus</i> )			✓			
Hake, Longfin ( <i>Phycis chesterti</i> )						✓
Hake, Offshore ( <i>Merluccius albidus</i> )						✓
Hake, White ( <i>Urophycis tenuis</i> )			✓			
Halibut, Atlantic ( <i>Hippoglossus hippoglossus</i> )						✓
Herring, Round ( <i>Etrumeus teres</i> )						✓
Mackerel, Atlantic ( <i>Scomber scombrus</i> )		✓		✓		
Mackerel, Snake ( <i>Gempylus serpens</i> )						✓
Needlefish, Atlantic ( <i>Strongylura marina</i> )						✓
Pollock ( <i>Pollachius virens</i> )			✓			
Rays (Myliobatiformes)	✓	✓	✓	✓	✓	
Sand Lance, American ( <i>Ammodytes americanus</i> )						✓
Sand Lance, Northern ( <i>Ammodytes dubius</i> )			✓			
Sea raven ( <i>Hemitripteris americanus</i> )			✓	✓		
Sea Robin, Armored ( <i>Peristedion miniatum</i> )						✓
Sea Robin, Northern ( <i>Prionotus carolinus</i> )						✓
Sea Robin, Striped ( <i>Prionotus evolans</i> )						✓
Sharks (Elasmobranchii)	✓	✓	✓	✓	✓	
Skate, Thorny ( <i>Amblyraja radiata</i> )			✓			
Skates (Rajiformes)	✓	✓	✓	✓	✓	
Spot ( <i>Leiostomus xanthurus</i> )	✓					
Tilefish ( <i>Lopholatilus chamaeleonticeps</i> )						✓
Weakfish ( <i>Cynoscion regalis</i> )	✓					
Wolffish, Atlantic ( <i>Anarhichas lupus</i> )			✓			
Wrymouth ( <i>Cryptacanthodes maculatus</i> )						✓
Any other unusual fish obtained						✓

Table A5. Order of sampling priority, length categories, target numbers of stomachs to sample per watch, and sampling methods for species from which stomach contents were collected during 1981-1984.

Species	Length Category (cm) <sup>a</sup>	No. to Sample/ Watch	Sampling Method to Use	Species	Length Category (cm) <sup>a</sup>	No. to Sample/ Watch	Sampling Method to Use
Hake, Silver ( <i>Merluccius bilinearis</i> )	0-10	10	Preserve samples	Hake, White ( <i>Urophycis tenuis</i> )	0-20	5	Examine at sea
	11-20	10			21-40	5	
	21-30	20			>40	5	
	31-35	20		Hake, Red ( <i>Urophycis chuss</i> )	0-10	5	Examine at sea
	>35	20			11-20	5	
Cod, Atlantic ( <i>Gadus morhua</i> )	0-10	5	Preserve samples	Goosefish ( <i>Lophius americanus</i> )	21-30	5	Examine at sea
	11-30	20			31-35	5	
	31-50	20			>35	5	
	51-70	20			All	5	
	71-90	30		Flounder, Winter ( <i>Pseudopleuronectes americanus</i> )	0-15	5	Preserve samples
>90	All	16-30	5				
Dogfish, Spiny ( <i>Squalus acanthias</i> )	0-65	20	Examine at sea	31-50	5	Examine at sea	
	66-85	20		>50	5		
	>85	20					
Flounder, Yellowtail ( <i>Limanda ferruginea</i> )	0-10	5	Preserve samples	Mackerel, Atlantic ( <i>Scomber scombrus</i> )	0-20	5	Preserve samples
	11-20	5			21-25	5	
	21-30	5			26-30	5	
	31-40	5			>30	5	
	>40	5					
Haddock ( <i>Melanogrammus aeglefinus</i> )	0-25	5	Preserve samples	Herring, Atlantic ( <i>Clupea harengus</i> )	0-15	5	Preserve samples
	26-50	5			16-25	5	
	>50	5			26-30	5	
Pollock ( <i>Pollachius virens</i> )			Examine at sea		>30	5	
	0-15	5					
	16-25	5					
	26-50	5					
	51-80	5					
	>80	5					

<sup>a</sup>Length categories are to be consistent with those of the Age and Growth Project.

Table A6. Priority species to have stomach contents collected at sea during 1985-91, and the minimum numbers of stomachs to sample per length category per watch.

Species	Length Category (cm)	Minimum No. to Sample	Species	Length Category (cm)	Minimum No. to Sample
Hake, Silver ( <i>Merluccius bilinearis</i> ) <sup>a</sup>	1-20	5	Pollock ( <i>Pollachius virens</i> )	1-25	5
	21-25	5		26-50	5
	26-30	10		51-80	5
	31-35	10		>80	5
	>35	10			
Cod, Atlantic ( <i>Gadus morhua</i> ) <sup>a</sup>	1-30	5	Hake, Red ( <i>Urophycis chuss</i> )	1-20	5
	31-50	10		21-25	5
	51-70	15		26-30	5
	71-90	15		31-35	5
	>90	All		>35	5
Dogfish, Spiny ( <i>Squalus acanthias</i> ) <sup>a</sup>	1-65	20	Mackerel, Atlantic ( <i>Scomber scombrus</i> )	1-25	5
	66-85	25		26-30	5
	>85	25		>30	10
Hake, White ( <i>Urophycis tenuis</i> )	1-20	5	Herring, Atlantic ( <i>Clupea harengus</i> )	1-25	5
	21-40	5		26-30	5
	>40	5		>30	10

<sup>a</sup>Highest priority species.

Table A7. Secondary species to have stomach contents collected at sea during 1985-91.  
of each species should be taken for each watch.).

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Common Name	Scientific Name
Acadian redfish	<i>Sebastes fasciatus</i>
Little skate	<i>Leucoraja erinacea</i>
Striped bass	<i>Morone saxatilis</i>
Alewife	<i>Alosa pseudoharengus</i>
Longhorn sculpin	<i>Myoxocephalus octodecemspinosus</i>
Summer flounder	<i>Paralichthys dentatus</i>
Atlantic halibut	<i>Hippoglossus hippoglossus</i>
Scup	<i>Stenotomus chrysops</i>
Thorny skate	<i>Amblyraja radiata</i>
Bluefish	<i>Pomatomus saltatrix</i>
Sea raven	<i>Hemitripterus americanus</i>
Weakfish	<i>Cynoscion regalis</i>
Fourspot flounder	<i>Hippoglossina oblonga</i>
Smooth dogfish	<i>Mustelus canis</i>
Windowpane	<i>Scophthalmus aquosus</i>
Goosefish	<i>Lophius americanus</i>
Spotted hake	<i>Urophycis regia</i>
Winter skate	<i>Leucoraja ocellata</i>

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Table A8. Species to be sampled, sampling ranges, and maximum numbers of stomachs to sample per station for 1992-93 bottom trawl surveys.

Species	Sampling Range (cm)	Bottom Trawl Survey			
		1992		1993	
		Spring	Fall	Spring	Fall
Bass, Striped ( <i>Morone saxatilis</i> )	1 per 1	All	All	All	All
Bluefish ( <i>Pomatomus saltatrix</i> )	1 per 1	10	10	10	10
Cod, Atlantic ( <i>Gadus morhua</i> )	3 per 3	25	25	25	25
Dogfish, Smooth ( <i>Mustelus canis</i> )	1 per 3	10	10	10	10
Dogfish, Spiny ( <i>Squalus acanthias</i> )	1 per 3	30	30	30	30
Flounder, Fourspot ( <i>Hippoglossina oblonga</i> )	1 per 1	10	10	10	10
Flounder, Summer ( <i>Paralichthys dentatus</i> )	1 per 1	10	10	10	10
Flounder, Windowpane ( <i>Scophthalmus aquosus</i> )	1 per 1	10	10	10	10
Goosefish ( <i>Lophius americanus</i> )	1 per 1	All	All	All	All
Hake, Red ( <i>Urophycis chuss</i> )	1 per 1	10	10	10	10
Hake, Silver ( <i>Merluccius bilinearis</i> )	1 per 1	10	10	10	10
Hake, Spotted ( <i>Urophycis regia</i> )	1 per 1	10	10	10	10
Hake, White ( <i>Urophycis tenuis</i> )	3 per 3	10	10	10	10
Halibut, Atlantic ( <i>Hippoglossus hippoglossus</i> )	1 per 1	All	All	All	All
Herring, Atlantic ( <i>Clupea harengus</i> )	1 per 1	10	10	10	10
Mackerel, Atlantic ( <i>Scomber scombrus</i> )	1 per 1	10	10	10	10
Pollock ( <i>Pollachius virens</i> )	1 per 1	20	20	20	20
Sculpin, Longhorn ( <i>Myoxocephalus octodecemspinosus</i> )	1 per 1	10	10	10	10
Sea raven ( <i>Hemitripterus americanus</i> )	1 per 1	10	10	10	10
Skate, Little ( <i>Leucoraja erinacea</i> )	1 per 2	10	10	10	10
Skate, Thorny ( <i>Amblyraja radiata</i> )	1 per 2	10	10	10	10
Skate, Winter ( <i>Leucoraja ocellata</i> )	1 per 2	10	10	10	10
Weakfish ( <i>Cynoscion regalis</i> )	1 per 1	10	10	10	10



Table A10. Species to be sampled, sampling ranges, and priority designations for 1999 bottom trawl surveys

Species	Sampling Range (cm)	Priority	Species	Sampling Range (cm)	Priority
Bass, Black Sea ( <i>Centropristis striata</i> )	1 per 5	-	Halibut, Atlantic ( <i>Hippoglossus hippoglossus</i> )	1 per 5	-
Bass, Striped ( <i>Morone saxatilis</i> )	1 per 5	-	Herring, Atlantic ( <i>Clupea harengus</i> )	1 per 5	7
Bluefish ( <i>Pomatomus saltatrix</i> )	1 per 5	-	Herring, blueback ( <i>Alosa aestivalis</i> )	1 per 5	-
Butterfish ( <i>Peprilus triacanthus</i> )	1 per 5	-	Mackerel, Atlantic ( <i>Scomber scombrus</i> )	1 per 5	8
Cod, Atlantic ( <i>Gadus morhua</i> )	1 per 5	-	Ocean pout ( <i>Zoarces americanus</i> )	1 per 5	5
Cunner ( <i>Tautoglabrus adspersus</i> )	1 per 5	-	Pollock ( <i>Pollachius virens</i> )	1 per 5	-
Cusk ( <i>Brosme brosme</i> )	1 per 5	-	Redfish, Acadian ( <i>Sebastes fasciatus</i> )	1 per 5	-
Cusk-eel, Fawn ( <i>Lepophidium profundorum</i> )	1 per 5	-	Rosefish, blackbelly ( <i>Helicolenus dactylopterus</i> )	1 per 5	-
Dogfish, Smooth ( <i>Mustelus canis</i> )	1 per 10 (per sex)	-	Salmon, Atlantic ( <i>Salmo salar</i> )	1 per 5	-
Dogfish, Spiny ( <i>Squalus acanthias</i> )	1 per 10 (per sex)	-	Sculpin, Longhorn ( <i>Myoxocephalus octodecemspinosus</i> )	1 per 5	4
American plaice ( <i>Hippoglossoides platessoides</i> )	1 per 5	-	Scup ( <i>Stenotomus chrysops</i> )	1 per 5	-
Flounder, Fourspot ( <i>Hippoglossina oblonga</i> )	1 per 5	-	Sea raven ( <i>Hemirhamphus americanus</i> )	1 per 5	-
Flounder, Summer ( <i>Paralichthys dentatus</i> )	1 per 5	3	Shad, American ( <i>Alosa sapidissima</i> )	1 per 5	-
Flounder, Windowpane ( <i>Scophthalmus aquosus</i> )	1 per 5	-	Shad, hickory ( <i>Alosa mediocris</i> )	1 per 5	-
Flounder, Winter ( <i>Pseudopleuronectes americanus</i> )	1 per 5	-	Skate, Little ( <i>Leucoraja erinacea</i> )	1 per 10	-
Flounder, Witch ( <i>Glyptocephalus cynoglossus</i> )	1 per 5	-	Skate, rosette ( <i>Leucoraja garmani</i> )	1 per 10	-
Flounder, Yellowtail ( <i>Limanda ferruginea</i> ) <sup>a</sup>	1 per 5	2	Skate, smooth ( <i>Malacoraja senta</i> )	1 per 10	-
Goosefish ( <i>Lophius americanus</i> )	1 per 5	-	Skate, Thorny ( <i>Amblyraja radiata</i> )	1 per 10	-
Haddock ( <i>Melanogrammus aeglefinus</i> )	1 per 5	1	Skate, Winter ( <i>Leucoraja ocellata</i> )	1 per 10	-
Hake, Offshore ( <i>Merluccius albidus</i> )	1 per 5	-	Spot ( <i>Leiostomus xanthurus</i> )	1 per 5	-
Hake, Red ( <i>Urophycis chuss</i> )	1 per 5	-	Tautog ( <i>Tautoga onitis</i> )	1 per 5	-
Hake, Silver ( <i>Merluccius bilinearis</i> )	1 per 5	-	Weakfish ( <i>Cynoscion regalis</i> )	1 per 5	-
Hake, Spotted ( <i>Urophycis regia</i> )	1 per 5	-	Wolffish, Atlantic ( <i>Anarhichas lupus</i> )	1 per 5	6
Hake, White ( <i>Urophycis tenuis</i> )	1 per 5	-			

<sup>a</sup>Sample ALL yellowtail flounder from Strata 5, 6, 9, and 10. Continue to sample one fish per 5-cm length interval in all other strata

Table A11. Species to be sampled, sampling ranges, and priority designations for 2000-02 bottom trawl surveys

Species	Sampling Range (cm)	Priority	Species	Sampling Range (cm)	Priority
Bass, Black Sea ( <i>Centropristis striata</i> )	1 per 5	-	Halibut, Atlantic ( <i>Hippoglossus hippoglossus</i> )	1 per 1	-
Bass, Striped ( <i>Morone saxatilis</i> )	1 per 1	-	Herring, Atlantic ( <i>Clupea harengus</i> )	1 per 5	7
Bluefish ( <i>Pomatomus saltatrix</i> )	1 per 5	-	Herring, blueback ( <i>Alosa aestivalis</i> )	1 per 5	-
Butterfish ( <i>Peprilus triacanthus</i> )	1 per 5	-	Mackerel, Atlantic ( <i>Scomber scombrus</i> )	1 per 5	8
Cod, Atlantic ( <i>Gadus morhua</i> )	1 per 10	-	Ocean pout ( <i>Zoarces americanus</i> )	1 per 5	5
Cunner ( <i>Tautoglabrus adspersus</i> )	1 per 5	-	Pollock ( <i>Pollachius virens</i> )	1 per 5	-
Cusk ( <i>Brosme brosme</i> )	1 per 1	-	Redfish, Acadian ( <i>Sebastes fasciatus</i> )	1 per 5	-
Cusk-eel, Fawn ( <i>Lepophidium profundorum</i> )	1 per 5	-	Rosefish, blackbelly ( <i>Helicolenus dactylopterus</i> )	1 per 5	-
Dogfish, Smooth ( <i>Mustelus canis</i> )	1 per 10	-	Salmon, Atlantic ( <i>Salmo salar</i> )	1 per 1	-
Dogfish, Spiny ( <i>Squalus acanthias</i> )	1 per 20	-	Sculpin, Longhorn ( <i>Myoxocephalus octodecemspinosus</i> )	1 per 5	4
American plaice ( <i>Hippoglossoides platessoides</i> )	1 per 2	-	Scup ( <i>Stenotomus chrysops</i> )	1 per 5	-
Flounder, Fourspot ( <i>Hippoglossina oblonga</i> )	1 per 5	-	Sea raven ( <i>Hemitripterus americanus</i> )	1 per 5	-
Flounder, Summer ( <i>Paralichthys dentatus</i> )	1 per 5	-	Shad, American ( <i>Alosa sapidissima</i> )	1 per 5	-
Flounder, Windowpane ( <i>Scophthalmus aquosus</i> )	1 per 2	-	Shad, hickory ( <i>Alosa mediocris</i> )	1 per 5	-
Flounder, Winter ( <i>Pseudopleuronectes americanus</i> )	1 per 2	2	Skate, Little ( <i>Leucoraja erinacea</i> )	1 per 10	-
Flounder, Witch ( <i>Glyptocephalus cynoglossus</i> )	1 per 2	-	Skate, rosette ( <i>Leucoraja garmani</i> )	1 per 5	-
Flounder, Yellowtail ( <i>Limanda ferruginea</i> ) <sup>a</sup>	1 per 2	1	Skate, smooth ( <i>Malacoraja senta</i> )	1 per 5	-
Goosefish ( <i>Lophius americanus</i> )	1 per 10	-	Skate, Thorny ( <i>Amblyraja radiata</i> )	1 per 10	-
Haddock ( <i>Melanogrammus aeglefinus</i> )	1 per 5	3	Skate, Winter ( <i>Leucoraja ocellata</i> )	1 per 20	-
Hake, Offshore ( <i>Merluccius albidus</i> )	1 per 1	-	Spot ( <i>Leiostomus xanthurus</i> )	1 per 5	-
Hake, Red ( <i>Urophycis chuss</i> )	1 per 5	-	Tautog ( <i>Tautoga onitis</i> )	1 per 5	-
Hake, Silver ( <i>Merluccius bilinearis</i> )	1 per 5	-	Weakfish ( <i>Cynoscion regalis</i> )	1 per 5	-
Hake, Spotted ( <i>Urophycis regia</i> )	1 per 5	-	Wolffish, Atlantic ( <i>Anarhichas lupus</i> )	1 per 1	6
Hake, White ( <i>Urophycis tenuis</i> )	1 per 10	-			

Table A12. Species to be sampled, sampling ranges, and priority designations for 2003-05 bottom trawl surveys

Species	Sampling Range (cm)	Priority	Species	Sampling Range (cm)	Priority
Bass, Black Sea ( <i>Centropristis striata</i> )	1 per 5	-	Halibut, Atlantic ( <i>Hippoglossus hippoglossus</i> )	1 per 1	-
Bass, Striped ( <i>Morone saxatilis</i> )	1 per 1	-	Herring, Atlantic ( <i>Clupea harengus</i> )	1 per 5	7
Bluefish ( <i>Pomatomus saltatrix</i> )	1 per 5	-	Herring, blueback ( <i>Alosa aestivalis</i> )	1 per 5	-
Butterfish ( <i>Peprilus triacanthus</i> )	1 per 5	-	Lanternfish (Myctophidae) <sup>b</sup>	1 per 1	-
Cod, Atlantic ( <i>Gadus morhua</i> )	1 per 10	3	Mackerel, Atlantic ( <i>Scomber scombrus</i> )	1 per 5	7
Croaker, Atlantic ( <i>Micropogonias undulatus</i> )	1 per 5	-	Ocean pout ( <i>Zoarces americanus</i> )	1 per 5	-
Cunner ( <i>Tautoglabrus adspersus</i> ) <sup>a</sup>	1 per 5	-	Pollock ( <i>Pollachius virens</i> )	1 per 5	2
Cusk ( <i>Brosme brosme</i> )	1 per 1	-	Redfish, Acadian ( <i>Sebastes fasciatus</i> )	1 per 5	-
Cusk-eel, Fawn ( <i>Lepophidium profundorum</i> ) <sup>a</sup>	1 per 5	-	Rosefish, blackbelly ( <i>Helicolenus dactylopterus</i> )	1 per 5	-
Dogfish, Smooth ( <i>Mustelus canis</i> )	1 per 10 (per sex)	-	Salmon, Atlantic ( <i>Salmo salar</i> )	1 per 1	-
Dogfish, Spiny ( <i>Squalus acanthias</i> )	1 per 20 (per sex)	-	Sculpin, Longhorn ( <i>Myoxocephalus octodecemspinosus</i> )	1 per 5	5
Dory, Buckler ( <i>Zenopsis conchifera</i> )	1 per 5	-	Scup ( <i>Stenotomus chrysops</i> )	1 per 5	-
Eel, Conger ( <i>Conger oceanicus</i> )	1 per 5	-	Sea raven ( <i>Hemitripterus americanus</i> )	1 per 5	1
American plaice ( <i>Hippoglossoides platessoides</i> )	1 per 2	-	Sea Robin, Armored ( <i>Peristedion miniatum</i> )	1 per 5	-
Flounder, Fourspot ( <i>Hippoglossina oblonga</i> )	1 per 5	3	Sea Robin, Northern ( <i>Prionotus carolinus</i> )	1 per 5	-
Flounder, Gulf Stream ( <i>Citharichthys arctifrons</i> )	1 per 5	-	Sea Robin, Striped ( <i>Prionotus evolans</i> )	1 per 5	-
Flounder, Summer ( <i>Paralichthys dentatus</i> )	1 per 5	3	Shad, American ( <i>Alosa sapidissima</i> )	1 per 5	-
Flounder, Windowpane ( <i>Scophthalmus aquosus</i> )	1 per 2	-	Shad, hickory ( <i>Alosa mediocris</i> )	1 per 5	-
Flounder, Winter ( <i>Pseudopleuronectes americanus</i> )	1 per 2	6	Skate, Little ( <i>Leucoraja erinacea</i> )	1 per 10	-
Flounder, Witch ( <i>Glyptocephalus cynoglossus</i> )	1 per 2	-	Skate, rosette ( <i>Leucoraja garmani</i> )	1 per 5	-
Flounder, Yellowtail ( <i>Limanda ferruginea</i> ) <sup>a</sup>	1 per 2	6	Skate, smooth ( <i>Malacoraja senta</i> )	1 per 5	-
Goosefish ( <i>Lophius americanus</i> )	1 per 10	1	Skate, Thorny ( <i>Amblyraja radiata</i> )	1 per 10	-
Haddock ( <i>Melanogrammus aeglefinus</i> )	1 per 5	4	Skate, Winter ( <i>Leucoraja ocellata</i> )	1 per 20	-
Hake, Offshore ( <i>Merluccius albidus</i> )	1 per 1	3	Spot ( <i>Leiostomus xanthurus</i> )	1 per 5	-
Hake, Red ( <i>Urophycis chuss</i> )	1 per 5	-	Tautog ( <i>Tautoga onitis</i> )	1 per 5	-
Hake, Silver ( <i>Merluccius bilinearis</i> )	1 per 5	2	Tilefish ( <i>Lopholatilus chamaeleonticeps</i> )	1 per 5	-
Hake, Spotted ( <i>Urophycis regia</i> )	1 per 5	-	Weakfish ( <i>Cynoscion regalis</i> )	1 per 5	-
Hake, White ( <i>Urophycis tenuis</i> )	1 per 10	-	Wolfish, Atlantic ( <i>Anarhichas lupus</i> )	1 per 1	-

<sup>a</sup>Preserve stomach.<sup>b</sup>Preserve entire animal.

Table A13. Species to be sampled, sampling ranges, and priority designations for 2006-08 bottom trawl surveys

Common Name	Sampling Range (cm)	Priority	Common Name	Sampling Range (cm)	Priority
Bass, Black Sea ( <i>Centropristis striata</i> )	1 per 5	-	Herring, blueback ( <i>Alosa aestivalis</i> )	1 per 5	-
Bass, Striped ( <i>Morone saxatilis</i> )	1 per 1	-	Kingfish, northern ( <i>Menticirrhus saxatilis</i> )	1 per 5	-
Bluefish ( <i>Pomatomus saltatrix</i> )	1 per 5	-	Lanternfish (Myctophidae) <sup>b</sup>	1 per 1	-
Butterfish ( <i>Peprilus triacanthus</i> )	1 per 5	-	Mackerel, Atlantic ( <i>Scomber scombrus</i> )	1 per 5	7
Cod, Atlantic ( <i>Gadus morhua</i> )	1 per 10	5	Menhaden ( <i>Brevoortia tyrannus</i> )	1 per 5	-
Croaker, Atlantic ( <i>Micropogonias undulatus</i> )	1 per 5	-	Ocean pout ( <i>Zoarces americanus</i> )	1 per 5	-
Cunner ( <i>Tautoglabrus adspersus</i> ) <sup>a</sup>	1 per 2	-	Pollock ( <i>Pollachius virens</i> )	1 per 10	2
Cusk ( <i>Brosme brosme</i> )	1 per 1	3	Redfish, Acadian ( <i>Sebastes fasciatus</i> )	1 per 5	-
Cusk-eel, Fawn ( <i>Lepophidium profundorum</i> ) <sup>a</sup>	1 per 2	-	Rosefish, blackbelly ( <i>Helicolenus dactylopterus</i> )	1 per 5	-
Dogfish, Smooth ( <i>Mustelus canis</i> )	1 per 20 (per sex)	-	Salmon, Atlantic ( <i>Salmo salar</i> )	1 per 1	-
Dogfish, Spiny ( <i>Squalus acanthias</i> )	1 per 30 (per sex)	-	Sculpin, Longhorn ( <i>Myoxocephalus octodecemspinosus</i> )	1 per 5	-
Dory, Buckler ( <i>Zenopsis conchifera</i> )	1 per 5	-	Scup ( <i>Stenotomus chrysops</i> )	1 per 5	-
Eel, Conger ( <i>Conger oceanicus</i> )	1 per 10	-	Sea raven ( <i>Hemitripterus americanus</i> )	1 per 5	-
American plaice ( <i>Hippoglossoides platessoides</i> )	1 per 5	-	Sea Robin, Armored ( <i>Peristedion miniatum</i> )	1 per 5	-
Flounder, Fourspot ( <i>Hippoglossina oblonga</i> )	1 per 10	6	Sea Robin, Northern ( <i>Prionotus carolinus</i> )	1 per 5	-
Flounder, Gulf Stream ( <i>Citharichthys arctifrons</i> )	1 per 2	-	Sea Robin, Striped ( <i>Prionotus evolans</i> )	1 per 5	-
Flounder, Summer ( <i>Paralichthys dentatus</i> )	1 per 10	6	Shad, American ( <i>Alosa sapidissima</i> )	1 per 5	-
Flounder, Windowpane ( <i>Scophthalmus aquosus</i> )	1 per 2	-	Shad, hickory ( <i>Alosa mediocris</i> )	1 per 5	-
Flounder, Winter ( <i>Pseudopleuronectes americanus</i> )	1 per 5	4	Skate, barndoor ( <i>Dipturus laevis</i> )	1 per 10	3
Flounder, Witch ( <i>Glyptocephalus cynoglossus</i> )	1 per 2	-	Skate, clearnose ( <i>Raja eglanteria</i> )	1 per 5	-
Flounder, Yellowtail ( <i>Limanda ferruginea</i> ) <sup>a</sup>	1 per 5	4	Skate, Little ( <i>Leucoraja erinacea</i> )	1 per 10	-
Rockling, Fourbeard ( <i>Enchelyopus cimbrius</i> ) <sup>a</sup>	1 per 2	-	Skate, rosette ( <i>Leucoraja garmani</i> )	1 per 5	-
Goosefish ( <i>Lophius americanus</i> )	1 per 20	-	Skate, smooth ( <i>Malacoraja senta</i> )	1 per 5	-
Haddock ( <i>Melanogrammus aeglefinus</i> )	1 per 5	1	Skate, Thorny ( <i>Amblyraja radiata</i> )	1 per 10	-
Hake, Offshore ( <i>Merluccius albidus</i> )	1 per 1	2	Skate, Winter ( <i>Leucoraja ocellata</i> )	1 per 30	-
Hake, Red ( <i>Urophycis chuss</i> )	1 per 5	-	Spot ( <i>Leiostomus xanthurus</i> )	1 per 5	-
Hake, Silver ( <i>Merluccius bilinearis</i> )	1 per 5	5	Tautog ( <i>Tautoga onitis</i> ) <sup>a</sup>	1 per 2	-
Hake, Spotted ( <i>Urophycis regia</i> )	1 per 5	-	Tilefish ( <i>Lopholatilus chamaeleonticeps</i> )	1 per 2	-
Hake, White ( <i>Urophycis tenuis</i> )	1 per 10	-	Weakfish ( <i>Cynoscion regalis</i> )	1 per 5	-
Halibut, Atlantic ( <i>Hippoglossus hippoglossus</i> )	1 per 1	-	Wolffish, Atlantic ( <i>Anarhichas lupus</i> )	1 per 1	-
Herring, Atlantic ( <i>Clupea harengus</i> )	1 per 5	7			

<sup>a</sup>Preserve stomach.<sup>b</sup>Preserve entire animal.