

Appendix Table 9-1. Catch Per Tow for the Spring and Fall sampling efforts, 1995-1999.

	Spring Catch Per Tow (SE)					Fall Catch Per Tow (SE)				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
<i>Anguilla rostrata</i>										0.12 (0.07)
<i>Alectis ciliaris</i>						0.10 (0.10)	0.14 (0.07)			
<i>Alosa pseudoharengus</i>					20.58 (8.49)					
<i>Ammodytes hexapterus</i>	6.94 (4.05)	21.36 (11.98)	0.11 (0.7)	2.91 (1.61)	0.03 (0.03)		0.64 (0.54)	0.70 (0.26)		0.03 (0.03)
<i>Alosa sapidissima</i>										0.12 (0.09)
<i>Anchoa</i> spp.	0.06 (0.06)	0.54 (0.22)		85.45 (74.42)	38.38 (18.26)	21.50 (48.73)		0.13 (0.09)	0.08 (0.08)	777.58 (248.65)
<i>Gadus morhua</i>	0.06 (0.06)	1.96 (0.80)		7.27 (2.34)						
<i>Microponias undulatus</i>						0.45 (0.40)				11.76 (2.55)
<i>Clupea harengus</i>					2.63 (1.55)			0.02 (0.02)		
<i>Scomber scombrus</i>	0.06 (0.06)	0.43 (0.43)					0.05 (0.05)	0.06 (0.04)		
<i>Brevoortia tyrannus</i>					0.05 (0.03)					
<i>Selene setapinnis</i>							0.14 (0.07)			
<i>Dasvatis sabina</i>										0.09 (0.05)
<i>Acipenser oxyrhynchus</i>	0.06 (0.06)				0.05 (0.03)					
<i>Pholis fasciata</i>					0.10 (0.10)					
<i>Seriola zonata</i>						0.05 (0.05)	0.14 (0.14)			0.52 (0.17)
<i>Selar crumenophthalmus</i>						0.05 (0.05)				0.48 (0.19)
<i>Centropristis striata</i>	1.33 (0.24)	0.11 (0.06)	0.31 (0.29)	0.32 (0.12)	1.13 (0.39)	2.60 (0.68)	4.05 (1.53)	2.87 (0.98)	5.16 (2.02)	9.70 (4.76)
<i>Alosa aestivalis</i>	67.61 (63.51)	65.57 (17.60)		146.64 (75.17)	4.13 (3.38)					
<i>Pomatomus saltatrix</i>			0.07 (0.04)		0.63 (0.15)	5.85 (2.36)	0.14 (0.07)	1.45 (0.48)		1.33 (0.43)
<i>Fistularia tabacaria</i>							0.05 (0.05)		0.64 (0.24)	
<i>Peprilus triacanthus</i>	22.89 (8.35)	0.04 (0.04)	0.11 (0.05)	54.23 (36.55)	42.15 (8.87)	86.50 (32.68)	23.82 (102.75)	691.94 (751.66)	67.64 (120.90)	38.52 (6.57)
<i>Conger oceanicus</i>								0.02 (0.02)	0.04 (0.04)	
<i>Rhinoptera bonasus</i>						0.05 (0.05)				0.03 (0.03)
<i>Caranx hippos</i>						1.65 (1.12)				0.27 (0.21)
<i>Tautoglabrus adspersus</i>					0.15 (0.11)	0.05 (0.05)			0.04 (0.04)	
Ophidiidae									0.08 (0.06)	
<i>Upeneus parvus</i>						0.10 (0.07)		0.13 (0.06)		
Zoarcidae	2.50 (1.02)									
<i>Molva molva</i>					0.15 (0.15)					0.03 (0.03)
<i>Monocanthus</i> spp.						0.05 (0.05)	0.05 (0.05)			
<i>Enchelyopus cimbrius</i>								0.02 (0.02)		
<i>Paralichthys oblongus</i>	0.06 (0.06)		0.51 (0.12)	4.77 (0.96)	0.63 (0.15)		0.27 (0.27)	2.57 (0.54)	0.12 (0.12)	0.06 (0.04)
<i>Priacanthus cruentatus</i>							0.41 (0.17)			
<i>Lophius americanus</i>	0.39 (0.12)	0.25 (0.10)	0.91 (0.15)	0.05 (0.05)	0.13 (0.05)					
<i>Balistes capriscus</i>							0.05 (0.05)	0.02 (0.02)		0.03 (0.03)
<i>Seriola dumerili</i>						0.15 (0.08)				0.18 (0.13)
<i>Citharichthys arctifons</i>	0.61 (0.20)					0.20 (0.09)				
<i>Urophycis</i> spp.	213.56 (60.27)	1.96 (0.59)	2.16 (0.36)	2.05 (0.93)	5.80 (2.59)	0.55 (0.39)	3.00 (0.93)	1.81 (0.38)	1.04 (0.30)	0.48 (0.29)
<i>Alosa mediocris</i>					5.75 (2.26)					
<i>Trinectes maculatus</i>						0.10 (0.10)				

Appendix Table 9-1. Catch Per Tow for the Spring and Fall sampling efforts, 1995-1999.

	Spring Catch Per Tow (SE)					Fall Catch Per Tow (SE)				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
<i>Synodus foetens</i>										3.64 (0.58)
<i>Menticirrhus sp.</i>				0.09 (0.06)						11.12 (1.60)
<i>Hippocampus erectus</i>							0.05 (0.05)			
<i>Synodus spp.</i>						0.05 (0.05)				
<i>Selene vomer</i>									0.04 (0.04)	0.06 (0.04)
<i>Scomberomorus cavalla</i>										0.15 (0.08)
<i>Scomberomorus sp.</i>				0.05 (0.05)	0.05 (0.03)					
<i>Decapterus macarellus</i>							21.86 (4.85)	0.02 (0.02)		
Gerridae									0.16 (0.16)	
<i>Fundulus heteroclitus</i>								0.02 (0.02)		
<i>Menticirrhus saxatilis</i>	0.06 (0.06)				0.30 (0.10)	1.30 (0.60)				
<i>Syngnathus fuscus</i>		0.04 (0.04)						0.19 (0.07)		0.03 (0.03)
<i>Sphoeroides maculatus</i>				0.09 (0.09)	0.03 (0.03)	1.05 (0.30)	0.14 (0.07)	0.11 (0.05)		15.97 (2.86)
<i>Hippocampus erectus</i>	0.17 (0.09)	0.07 (0.05)								
<i>Sphyræna borealis</i>						0.05 (0.05)				0.45 (0.19)
<i>Astroscopus guttatus</i>								0.04 (0.03)	0.04 (0.04)	0.09 (0.05)
<i>Macrozoarces americanus</i>	4.06 (2.55)	1.75 (0.41)	0.02 (0.02)		0.10 (0.05)					
<i>Naucrates ductor</i>								0.04 (0.03)		
<i>Serraniculus pumilio</i>								2.11 (1.29)		
<i>Macrozoarces americanus</i>								0.04 (0.03)		0.03 (0.03)
<i>Mullus auratus</i>							0.05 (0.05)			
<i>Trachurus lathami</i>						4.20 (1.33)		0.04 (0.03)	0.44 (0.14)	
<i>Etrumeus teres</i>						0.30 (0.30)	0.18 (0.11)			
<i>Decapterus punctatus</i>								3.70 (0.61)		
<i>Stenotomus chrysops</i>	23.50 (9.90)	0.04 (0.04)	0.13 (0.06)	42.82 (10.17)	118.68 (23.50)	18.10 (5.87)	1.59 (1.13)	2.45 (0.75)	1.24 (0.45)	43.45 (13.46)
<i>Petromyzon marinus</i>	0.11 (0.08)									
<i>Hemitripterus americanus</i>			0.29 (0.13)							
<i>Prionotus spp.</i>	0.89 (0.21)	0.26 (0.11)	0.40 (0.09)	3.64 (0.77)	3.55 (0.73)	104.40 (29.76)	33.05 (5.45)	19.06 (2.20)	32.00 (7.44)	42.88 (4.99)
<i>Pristigenys alta</i>						0.05 (0.05)				
<i>Merluccius bilinearis</i>		0.36 (0.12)		12.64 (2.32)	5.18 (1.45)					0.24 (0.12)
<i>Raja spp.</i>	17.78 (1.37)	7.50 (1.33)	77.76 (7.07)	23.14 (4.78)	18.23 (3.86)	29.00 (14.10)	121.73 (38.61)	12.57 (1.92)	3.44 (0.69)	24.61 (3.13)
<i>Etropus microstomus</i>		0.36 (0.12)	0.04 (0.03)	8.27 (2.44)	1.08 (0.42)		12.91 (3.97)	9.45 (1.30)	1.92 (0.60)	0.12 (0.07)
<i>Mustelus canis</i>		0.04 (0.04)	0.36 (0.09)	1.41 (0.19)	2.25 (0.30)	9.30 (1.58)	1.23 (0.60)	0.47 (0.11)	0.48 (0.24)	6.64 (1.40)
<i>Liopsetta putnami</i>		0.04 (0.04)								
<i>Scomberomorus maculatus</i>								0.02 (0.02)		
<i>Squalus acanthias</i>		4.50 (1.33)								
<i>Leiostomus xanthurus</i>						0.05 (0.05)				
<i>Morone saxatilis</i>	1.67 (0.40)	7.61 (2.09)	0.29 (0.11)	0.95 (0.27)	1.68 (0.28)					
<i>Ophidion marginatum</i>						0.10 (0.10)				0.39 (0.16)
<i>Paralichthys dentatus</i>	0.67 (0.18)	0.82 (0.19)	4.93 (0.39)	7.91 (0.87)	2.96 (0.39)	32.80 (7.66)	34.77 (4.83)	7.13 (0.74)	5.88 (0.96)	8.63 (0.91)
<i>Tautoga onitis</i>	0.22 (0.13)	0.11 (0.06)	0.07 (0.05)	0.05 (0.05)	0.03 (<0.03)				0.04 (0.04)	0.12 (0.06)

Appendix Table 9-2. Total catch and catch per tow for BBA-3 during the Spring sampling efforts, 1995-1999. Standard error is recorded in parentheses ().

Taxa	Total Abundance					Catch Per Tow (SE)				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
Alewife (<i>Alosa pseudoharengus</i>)					205					17.08 (9.86)
American Sand Lance (<i>Ammodytes hexaptes</i>)	14	3				2.33 (2.14)	0.30 (0.30)			
Anchovy (<i>Anchoa spp.</i>)		7		1684	1475		0.70 (0.40)		280.67 (271.51)	22.92 (54.66)
Atlantic Cod (<i>Gadus morhua</i>)		2		10			0.20 (0.20)		1.67 (1.17)	
Atlantic Herring (<i>Clupea harengus</i>)					18					1.50 (1.16)
Atlantic Mackerel (<i>Scomber scombrus</i>)		12					1.20 (1.20)			
Atlantic Menhaden (<i>Brevoortia tyrannus</i>)					1					0.08 (0.08)
Atlantic Sturgeon (<i>Acipenser oxyrinchus</i>)					1					0.08 (0.08)
Black Sea Bass (<i>Centropristis striata</i>)	8	3		2	12	1.33 (0.56)	0.30 (0.15)		0.33 (0.21)	1.00 (0.58)
Blueback Herring (<i>Alosa aestivialis</i>)	3628	1092		3178	165	04.67 (160.36)	09.20 (32.96)		529.67 (215.98)	13.75 (11.10)
Bluefish (<i>Pomatomus saltatrix</i>)					12					1.00 (0.39)
Butterfish (<i>Peprilus triacanthus</i>)	150		1	273	632	25.00 (14.38)		0.25 (0.25)	45.50 (36.49)	52.67 (16.53)
Cunner (<i>Tautoglabrus adspersus</i>)					2					0.17 (0.17)
Eel Pout (Zoarcidae)	5					0.83 (0.54)				
Four Spot Flounder (<i>Paralichthys oblongus</i>)				6	3				1.00 (0.52)	0.25 (0.13)
Goosefish (<i>Lophius americanus</i>)	3	5	1			0.50 (0.22)	0.50 (0.22)	0.25 (0.25)		
Gulf Stream Flounder (<i>Citharichthys arctif</i>)	4					0.67 (0.33)				
Hake (<i>Urophycis spp.</i>)	1140	35	6	38	106	190.00 (68.24)	3.50 (1.34)	1.50 (0.87)	6.33 (2.72)	8.83 (1.85)
Hickory Shad (<i>Alosa mediocris</i>)					146					12.17 (7.09)
Mackerel (<i>Scomberomorus spp.</i>)				1	1				0.17 (0.17)	0.08 (0.08)
Northern Kingfish (<i>Menticirrhus saxatilis</i>)	1				5	0.17 (0.17)				0.42 (0.23)
Northern Puffer (<i>Sphoeroides maculatus</i>)					1					0.08 (0.08)
Northern Seahorse (<i>Hippocampus errectus</i>)	3	1				0.50 (0.22)	0.10 (0.10)			
Ocean Pout (<i>Macrozoarces americanus</i>)	14	18				2.33 (0.84)	1.80 (0.77)			
Scup (<i>Stenotomus chrysops</i>)	261	1		323	1421	43.50 (27.83)	0.10 (0.10)		53.83 (19.27)	18.42 (34.19)
Searobin (<i>Prionotus spp.</i>)	6	4	4	26	79	1.00 (0.37)	0.40 (0.22)	1.00 (0.41)	4.33 (0.80)	6.58 (1.14)
Silver Hake (<i>Merluccius bilinearis</i>)		2		51	91		0.20 (0.20)		8.50 (1.23)	7.58 (2.25)
Skate (<i>Raja spp.</i>)	115	73	602	340	428	19.17 (1.78)	8.50 (2.83)	50.50 (14.18)	56.67 (4.80)	35.67 (11.04)
Smallmouth Flounder (<i>Etropus microstomus</i>)		3	1	18	5		0.30 (0.15)	0.25 (0.25)	3.00 (0.58)	0.42 (0.23)
Smooth Dogfish (<i>Mustelus canis</i>)		1	1	9	36		0.10 (0.10)	0.25 (0.25)	1.50 (0.43)	3.00 (0.69)
Smooth Flounder (<i>Liopsetta putnami</i>)		1					0.10 (0.10)			
Spiny Dogfish (<i>Squalus acanthius</i>)		14					1.40 (1.29)			
Striped Bass (<i>Morone saxatilis</i>)	12	167	1	8	33	2.00 (0.73)	16.70 (3.82)	0.25 (0.25)	1.33 (0.21)	2.75 (0.41)
Summer Flounder (<i>Paralichthys dentatus</i>)	4	7	11	51	58	0.67 (0.33)	0.70 (0.26)	2.75 (0.48)	8.50 (1.59)	4.83 (0.76)
Tautog (<i>Tautoga onitis</i>)		1					0.10 (0.10)			
Weakfish (<i>Cynoscion regalis</i>)		90			202		9.00 (5.76)			16.83 (16.11)
Windowpane (<i>Scopthalmus aquosus</i>)	307	237	88	76	107	51.17 (7.81)	23.70 (4.13)	22.00 (2.27)	12.67 (2.80)	8.92 (1.67)
Winter Flounder (<i>Pleuronectes americanus</i>)	417	253		17	9	69.50 (4.03)	25.30 (4.16)		2.83 (1.08)	0.75 (0.22)
Total Number of Fish Collected:	6092	2032	716	6111	5254	015.33 (102.1)	03.20 (41.44)	79.00 (15.63)	018.50 (271.0)	137.83 (55.18)
Total Number of Taxa Collected:	18	24	10	18	27					

Appendix Table 9-3. Total catch and catch per tow for BBA-5 during the Spring sampling efforts, 1995-1999. Standard error is recorded in parentheses ().

Taxa	Total Abundance					Catch Per Tow (SE)				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
Alewife (<i>Alosa pseudoharengus</i>)					479					34.21 (22.50)
American Sand Lance (<i>Ammodytes hexa</i>)	17	10		51	1	2.13 (1.09)	1.11 (0.77)		5.67 (3.84)	0.07 (0.07)
Anchovy (<i>Anchoa sp.</i>)	1	8		196	59		0.89 (0.51)		21.78 (20.79)	4.21 (4.21)
Atlantic Cod (<i>Gadus morhua</i>)	1	6		142		0.13 (0.13)	0.67 (0.46)		15.78 (4.37)	
Atlantic Menhaden (<i>Brevoortia tyrannus</i>)					1					0.07 (0.07)
Atlantic Sturgeon (<i>Acipenser oxyrinchus</i>)	1					0.13 (0.13)				
Black Sea Bass (<i>Centropristis striata</i>)	9			1		1.13 (0.30)			0.11 (0.11)	
Blueback Herring (<i>Alosa aestivalis</i>)	3952	431		47		494.00 (69.64)	7.89 (19.31)		5.22 (2.32)	
Bluefish (<i>Pomatomus saltatrix</i>)			1		8			0.10 (0.10)		0.57 (0.23)
Butterfish (<i>Peprilus triacanthus</i>)	234			812	920	29.25 (15.61)			90.22 (87.73)	65.71 (18.31)
Eel Pout (Zoarcidae)	10					1.25 (0.77)				
Fourspot Flounder (<i>Paralichthys oblongus</i>)			8	38	8			0.80 (0.36)	4.22 (1.48)	0.57 (0.31)
Goosefish (<i>Lophius americanus</i>)	2	1	8		3	0.25 (0.16)	0.11 (0.11)	0.80 (0.33)		0.21 (0.11)
Gulf Stream Flounder (<i>Citharichthys arc</i>)	6					0.75 (0.37)				
Hake (<i>Urophycis spp.</i>)	872	18	6	5	119	09.00 (34.79)	2.00 (0.82)	0.60 (0.31)	0.56 (0.56)	8.50 (5.43)
Hickory Shad (<i>Alosa mediocris</i>)					77					5.50 (1.59)
Northern Kingfish (<i>Menticirrhus saxatilis</i>)				2	6				0.22 (0.15)	0.43 (0.17)
Northern Pipefish (<i>Syngnathus fuscus</i>)		1					0.11 (0.11)			
Northern Puffer (<i>Sphoeroides maculatus</i>)				2					0.22 (0.15)	
Ocean Pout (<i>Macrozoarces americanus</i>)	12	4				1.50 (0.46)	0.44 (0.18)			
Scup (<i>Stenotomus chrysops</i>)	138		2	546	2479	17.25 (6.89)		0.20 (0.13)	50.67 (18.79)	77.07 (55.22)
Sea Lamprey (<i>Petromyzon marinus</i>)	2					0.25 (0.16)				
Searobin (<i>Prionotus spp.</i>)	5	1	5	45	57	0.63 (0.18)	0.11 (0.11)	0.50 (0.22)	5.00 (1.61)	4.07 (1.47)
Silver Hake (<i>Merluccius bilinearis</i>)		4		188	89		0.44 (0.24)		20.89 (4.32)	6.36 (3.58)
Skate (<i>Raja spp.</i>)	150	80	1231	90	146	18.75 (2.53)	8.89 (1.58)	23.10 (13.31)	10.00 (2.55)	10.43 (2.62)
Smallmouth Flounder (<i>Etropus microstomus</i>)		4		160	28		0.44 (0.25)		17.78 (4.31)	2.00 (1.13)
Smooth Dogfish (<i>Mustelus canis</i>)				7	29				0.78 (0.15)	2.07 (0.45)
Spiny Dogfish (<i>Squalus acanthias</i>)		54					6.00 (2.75)			
Striped Bass (<i>Morone saxatilis</i>)	15	39	2	7	26	1.88 (0.69)	4.33 (2.93)	0.20 (0.13)	0.78 (0.36)	1.86 (0.57)
Summer Flounder (<i>Paralichthys dentatus</i>)	8	8	45	79	34	1.00 (0.27)	0.89 (0.39)	4.50 (0.86)	8.78 (1.77)	2.43 (0.50)
Tautog (<i>Tautoga onitis</i>)	3	2			1	0.38 (0.26)	0.22 (0.15)			0.07 (0.07)
Weakfish (<i>Cynoscion regalis</i>)		3			6		0.33 (0.24)			0.43 (0.20)
Windowpane (<i>Scophthalmus aquosus</i>)	297	162	212	92	67	37.13 (4.97)	18.00 (2.38)	21.20 (2.56)	10.22 (1.58)	4.79 (1.14)
Winter Flounder (<i>Pleuronectes american</i>)	282	74	6	173	27	35.25 (7.77)	8.22 (1.60)	0.60 (0.27)	19.22 (4.69)	1.93 (0.47)
Total Number of Fish Collected:	6017	910	1526	2683	4670	52.13 (104.1)	101.11 (33.4)	52.60 (45.06)	8.11 (114.1)	33.57 (67.52)
Total Number of Taxa Collected:	21	19	11	20	23					

Appendix Table 9-4. Total catch and catch per tow for BBA-6 during the Spring sampling efforts, 1995-1999. Standard error is recorded in parentheses ().

	Total Abundance					Catch Per Tow (SE)				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
Alewife (<i>Alosa pseudoharengus</i>)					139					9.93 (4.07)
American Sand Lance (<i>Ammodytes hex</i>)	94	585	5	13		23.50 (16.87)	55.00 (33.96)	0.16 (0.09)	1.86 (0.55)	
Anchovy (<i>Anchoa</i> sp.)					1					0.07 (0.07)
Atlantic Cod (<i>Gadus morhua</i>)		47		8			5.22 (1.82)		1.14 (0.46)	
Atlantic Herring (<i>Clupea harengus</i>)					87					6.21 (4.23)
Atlantic Mackerel (<i>Scomber scombrus</i>)	1					0.25 (0.25)				
Atlantic Sturgeon (<i>Acipenser oxyrhynchus</i>)					1					0.07 (0.07)
Banded Gunnel (<i>Pholis fasciata</i>)					4					0.29 (0.29)
Black Sea Bass (<i>Centropristis striata</i>)	7		14	4	33	1.75 (0.48)		0.45 (0.42)	0.57 (0.30)	2.36 (0.92)
Blueback Herring (<i>Alosa aestivalis</i>)	2637	313		1		659.25 (94.06)	34.78 (33.17)		0.14 (0.14)	
Bluefish (<i>Pomatomus saltatrix</i>)			2		5			0.06 (0.04)		0.36 (0.17)
Butterfish (<i>Peprilus triacanthus</i>)	28	1	4	108	134	7.00 (3.51)	0.11 (0.11)	0.13 (0.06)	15.43 (3.50)	9.57 (2.93)
Cunner (<i>Tautoglabrus adspersus</i>)					4					0.29 (0.29)
Eel Pout (Zoarcidae)	30					7.50 (3.52)				
European Ling (<i>Molva molva</i>)					6					0.43 (0.43)
Fourspot Flounder (<i>Paralichthys oblong</i>)	1		15	61	14	0.25 (0.25)		0.48 (0.13)	8.71 (1.23)	1.00 (0.28)
Goosefish (<i>Lophius americanus</i>)	2	1	32	1	2	0.50 (0.29)	0.11 (0.11)	1.03 (0.19)	0.14 (0.14)	0.14 (0.10)
Gulf Stream Flounder (<i>Citharichthys ar</i>)	1					0.25 (0.25)				
Hake (<i>Urophycis</i> spp.)	1832	2	85	2	7	458.00 (218.76)	0.22 (0.15)	2.74 (0.46)	0.29 (0.29)	0.50 (0.31)
Hickory Shad (<i>Alosa mediocris</i>)					7					0.50 (0.25)
Mackerel (<i>Scomberomorus</i> spp.)					1					0.07 (0.07)
Northern Kingfish (<i>Menticirrhus saxatilis</i>)					1					0.07 (0.07)
Northern Seahorse (<i>Hippocampus erectus</i>)		1					0.11 (0.11)			
Ocean Pout (<i>Macrozoarces americanus</i>)	47	27	1		4	11.75 (11.75)	3.00 (0.73)	0.03 (0.03)		0.29 (0.13)
Scup (<i>Stenotomus chrysops</i>)	24		4	73	847	6.00 (3.67)		0.13 (0.08)	10.43 (2.77)	0.50 (17.78)
Sea Raven (<i>Hemitripteris americanus</i>)			13					0.03 (0.03)		
Searobin (<i>Prionotus</i> spp.)	5	3	9	9	6	1.25 (0.75)	0.33 (0.24)	0.29 (0.10)	1.29 (0.57)	0.43 (0.17)
Silver Hake (<i>Merluccius bilinearis</i>)		4		39	27		0.44 (0.18)		5.57 (0.87)	1.93 (0.54)
Skate (<i>Raja</i> spp.)	55	46	1666	79	155	13.75 (1.65)	5.00 (1.36)	53.74 (4.75)	11.29 (1.69)	11.07 (1.95)
Smallmouth Flounder (<i>Etropus microstomus</i>)		3	1	4	10		0.33 (0.25)	0.03 (0.03)	0.57 (0.30)	0.71 (0.27)
Smooth Dogfish (<i>Mustelus canis</i>)			15	15	25			0.48 (0.12)	2.14 (0.26)	1.79 (0.39)
Spiny Dogfish (<i>Squalus acanthias</i>)		58					6.44 (2.61)			
Striped Bass (<i>Morone saxatilis</i>)	3	7	10	6	8	0.75 (0.48)	0.78 (0.36)	0.32 (0.15)	0.86 (0.70)	0.57 (0.23)
Summer Flounder (<i>Paralichthys dentatus</i>)		8	166	44	27		0.89 (0.35)	5.35 (0.47)	6.29 (0.75)	1.93 (0.58)
Tautog (<i>Tautoga onitis</i>)	1		3	1		0.25 (0.25)		0.10 (0.07)	0.14 (0.14)	
Windowpane (<i>Scopthalmus aquosus</i>)	111	83	410	46	29	27.75 (3.99)	9.22 (1.37)	13.23 (1.19)	6.57 (1.04)	2.07 (0.44)
Winter Flounder (<i>Pleuronectes america</i>)	165	153	76	262	116	41.25 (2.59)	17.00 (1.71)	2.45 (0.36)	37.43 (2.68)	8.29 (1.02)
Yellowtail Flounder (<i>Limanda ferrugin</i>)	1					0.25 (0.25)				
Total Number of Fish Collected:	5045	1342	2531	776	1700	261.25 (312.55)	49.11 (40.61)	18.65 (5.71)	10.86 (7.19)	21.43 (24.65)
Total Number of Taxa Collected:	19	17	19	19	27					

Appendix Table 9-5. Total catch and catch per tow for BBA-3 during the Fall sampling efforts, 1995-1999. Standard error is recorded in parentheses ().

Taxa	Total Abundance					Catch Per Tow (SE)				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
American Eel (<i>Anguilla rostrata</i>)					4					0.33 (0.19)
American Sand Lance (<i>Ammodytes hexapterus</i>)		1	3				0.13 (0.13)	0.25 (0.18)		
American Shad (<i>Alosa sapidissima</i>)					4					0.33 (0.26)
Anchovy (<i>Anchoa</i> spp.)	1532		3	2	11135	218.86 (51.08)		0.50 (0.34)	0.20 (0.20)	927.92 (322.06)
Atlantic Croaker (<i>Micropogonias undulatus</i>)					260					21.67 (4.19)
Atlantic Mackerel (<i>Scomber scombrus</i>)		1	1				0.13 (0.13)	0.08 (0.08)		
Atlantic Stingray (<i>Dasyatis sabina</i>)					1					0.08 (0.08)
Banded Rudderfish (<i>Seriola zonata</i>)					6					0.50 (0.34)
Black Sea Bass (<i>Centropristis striata</i>)	33	44	20	3	41	4.71 (0.84)	5.50 (3.15)	1.67 (0.75)	0.30 (0.15)	3.42 (1.12)
Bluefish (<i>Pomatomus saltatrix</i>)	113	2	23		40	16.14 (4.83)	0.25 (0.16)	1.92 (1.38)	0.00	3.33 (0.96)
Bluespotted Cornetfish (<i>Fistularia tabacaria</i>)				2					0.20 (0.13)	
Butterfish (<i>Peprilus triacanthus</i>)	2006	2695	49650	6125	538	286.57 (59.87)	336.88 (282.70)	4137.50 (1165.24)	612.50 (188.00)	44.83 (10.01)
Crevalle Jack (<i>Caranx hippos</i>)	32				8	4.57 (3.02)				0.67 (0.58)
Cusk-eel (Ophidiidae)				2					0.20 (0.13)	
Dwarf Goatfish (<i>Upeneus parvus</i>)	2		1			0.29 (0.18)		0.08 (0.08)		
European Ling (<i>Molva molva</i>)					1					0.08 (0.08)
Fourspot Flounder (<i>Paralichthys oblongus</i>)			4	3				0.33 (0.19)	0.30 (0.30)	
Glasseye Flounder (<i>Priacanthus cruentatus</i>)		1					0.13 (0.13)			
Gulf Stream Flounder (<i>Citharichthys arctifons</i>)	3					0.43 (0.20)				
Hake (<i>Urophycis</i> spp.)		9	6	9			1.13 (0.23)	0.33 (0.26)	0.90 (0.31)	
Inshore Lizardfish (<i>Synodus foetens</i>)				1	20					1.58 (0.36)
King Mackerel (<i>Scomberomorus cavalla</i>)					1					0.08 (0.08)
Lookdown (<i>Selene vomer</i>)				1					0.10 (0.10)	
Mackerel Scad (<i>Decapterus macarellus</i>)		108					13.50 (2.95)			
Northern Kingfish (<i>Menticirrhus saxatilis</i>)	26				162	3.71 (1.34)				13.50 (2.07)
Northern Pipefish (<i>Syngnathus fuscus</i>)			1					0.08 (0.08)		
Northern Puffer (<i>Sphoeroides maculatus</i>)	18	2	2		238	2.57 (0.37)	0.25 (0.16)	0.17 (0.11)		19.83 (3.71)
Northern Sennet (<i>Sphyræna borealis</i>)	1				14	0.14 (0.14)				1.17 (0.46)
Northern Stargazer (<i>Astroscopus guttatus</i>)			2		2			0.17 (0.11)		0.17 (0.11)
Pygmy Seabass (<i>Serraniculus pumilio</i>)			18					1.50 (1.50)		
Ocean Pout (<i>Macrozoarces americanus</i>)			1					0.08 (0.08)		
Rough Scad (<i>Trachurus lathami</i>)	5		1	6		0.71 (0.29)		0.08 (0.08)	0.60 (0.27)	
Round Scad (<i>Decaterus punctatus</i>)			58					4.83 (0.84)		
Scup (<i>Stenotomus chrysops</i>)	343	32	17	9	148	49.00 (8.09)	4.00 (3.02)	1.50 (0.76)	0.90 (0.35)	12.33 (2.75)
Searobin (<i>Prionotus</i> spp.)	1572	401	300	473	729	224.57 (59.49)	50.13 (10.83)	33.08 (3.29)	47.30 (9.70)	60.75 (5.48)
Short Bigeye (<i>Pristigenys alta</i>)	1					0.14 (0.14)				
Silver Hake (<i>Merluccius bilinearis</i>)					2					0.17 (0.17)
Skate (<i>Raja</i> spp.)	11	860	316	16	257	1.57 (0.65)	107.50 (73.22)	28.33 (4.77)	1.60 (0.50)	21.42 (2.15)
Smallmouth Flounder (<i>Etropus microstomus</i>)		35	56	25			4.38 (1.24)	4.6 (0.70)	2.50 (0.95)	
Smooth Dogfish (<i>Mustelus canis</i>)	52		7	1	173	7.43 (1.32)		0.67 (0.31)	0.10 (0.10)	14.42 (2.51)
Spot (<i>Leiostomus xanthurus</i>)	1					0.14 (0.14)				
Striped Cusk-Eel (<i>Ophidion marginatum</i>)					8					0.67 (0.35)
Summer Flounder (<i>Paralichthys dentatus</i>)	255	444	116	58	143	36.43 (3.71)	55.50 (6.81)	9.92 (1.82)	5.80 (0.88)	11.92 (1.25)
Tautog (<i>Tautoga onitis</i>)					2					0.17 (0.11)
Triggerfish (<i>Balistes</i> spp.)	2	1				0.29 (0.18)	0.13 (0.13)			
Weakfish (<i>Cynoscion regalis</i>)	337	1	84	3	2340	48.14 (9.35)	0.13 (0.13)	7.00 (3.71)	0.30 (0.21)	195.00 (41.65)
Windowpane (<i>Scopthalmus aquosus</i>)	267	139	50	98	315	38.14 (3.65)	17.38 (2.23)	4.17 (0.91)	9.80 (1.95)	26.25 (3.44)
Winter Flounder (<i>Pleuronectes americanus</i>)	4	3				0.57 (0.20)	0.38 (0.18)			
Total Number of Fish Collected:	6616	4779	50740	6836	16592	45.14 (167.49)	97.38 (270.66)	238.92 (1171.34)	83.60 (195.74)	382.67 (345.49)
Total Number of Taxa Collected:	22	18	24	17	27					

Appendix Table 9-6. Total catch and catch per tow for BBA-5 during the Fall sampling efforts, 1995-1998. Standard error is recorded in parentheses ().

Taxa	Total Abundance					Catch Per Tow (SE)				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
African Pompano (<i>Alectis ciliaris</i>)	2	1				0.25 (0.25)	0.13 (0.13)			
American Sand Lance (<i>Ammodytes hexapterus</i>)			19		1			1.06 (0.60)		0.08 (0.08)
Anchovy (<i>Anchoa</i> spp.)	898				14525	12.25 (107.89)				1210.42 (574.98)
Atlantic Croaker (<i>Microponias undulatus</i>)	8				104	1.00 (1.00)				8.67 (4.19)
Atlantic Herring (<i>Clupea harengus</i>)			1					0.06 (0.06)		
Atlantic Mackerel (<i>Scomber scombrus</i>)			4					0.11 (0.08)		
Atlantic Moonfish (<i>Selene setapinnis</i>)		3					0.38 (0.18)			0.08 (0.08)
Atlantic Stingray (<i>Dasyatis sabina</i>)					1					0.08 (0.08)
Banded Rudderfish (<i>Seriola zonata</i>)	1	3			7	0.13 (0.13)	0.38 (0.38)			0.58 (0.29)
Bigeye Scad (<i>Selar crumenophthalmus</i>)	1				2	0.13 (0.13)				0.17 (0.11)
Black Sea Bass (<i>Centropristis striata</i>)	1		14	47	11	0.13 (0.13)		0.78 (0.61)	7.83 (1.12)	0.92 (0.40)
Bluefish (<i>Pomatomus saltatrix</i>)	3		40		2	0.38 (0.26)		2.22 (0.83)		0.17 (0.11)
Bluespotted Cornetfish (<i>Fistularia tabacaria</i>)		1		12			0.13 (0.13)		2.00 (0.13)	
Butterfish (<i>Peprilus triacanthus</i>)	854	1571	162372	759	453	106.75 (29.71)	196.38 (58.39)	9020.67 (1262.62)	126.50 (25.65)	37.75 (11.70)
Cownose Ray (<i>Rhinoptera bonasus</i>)	1				1	0.13 (0.13)				0.08 (0.08)
Creville Jack (<i>Caranx hippos</i>)	1					0.13 (0.13)				
Dwarf Goatfish (<i>Upeneus parvus</i>)			1					0.06 (0.06)		
Filefish (<i>Monocanthus</i> spp.)	1	1				0.13 (0.13)	0.13 (0.13)	0.00		
Fourspot Flounder (<i>Paralichthys oblongus</i>)			39		2			2.17 (0.84)		0.17 (0.11)
Glasseye Snapper (<i>Priacanthus cruentatus</i>)		8					1.00 (0.38)			
Greater Amberjack (<i>Seriola dumerili</i>)	2				2	0.25 (0.16)				0.17 (0.17)
Hake (<i>Urophycis</i> spp.)	4	13	14		10	0.50 (0.50)	1.63 (0.78)	0.88 (0.34)		0.83 (0.75)
Hogchocker (<i>Trinectes maculatus</i>)	2					0.25 (0.25)				
Inshore Lizardfish (<i>Synodus foetens</i>)					57					4.75 (1.21)
Lined Seahorse (<i>Hippocampus erectus</i>)		1					0.13 (0.13)			
Lizardfish (<i>Synodus</i> spp.)	1					0.13 (0.13)				
Inshore Lizardfish (<i>Synodus foetens</i>)					1					0.08 (0.08)
Mackerel Scad (<i>Decapterus macarellus</i>)		348	1				43.50 (8.49)	0.06 (0.06)		
Mojarra (Gerreidae)				4					0.67 (0.23)	
Mummichog (<i>Fundulus heteroclitus</i>)			1					0.06 (0.06)		
Northern Kingfish (<i>Menticirrhus saxatilis</i>)					67					5.58 (1.47)
Northern Pipefish (<i>Syngnathus fuscus</i>)			3		1			0.17 (0.12)		0.08 (0.08)
Northern Puffer (<i>Sphoeroides maculatus</i>)	3	1	3		158	0.38 (0.26)	0.13 (0.13)	0.17 (0.09)		13.17 (3.97)
Northern Sennet (<i>Sphyræna picudilla</i>)					1					0.08 (0.08)
Northern Stargazer (<i>Astroscopus guttatus</i>)				1					0.17 (0.05)	
Pilotfish (<i>Naucrates ductor</i>)			1					0.06 (0.06)		
Pygmy Seabass (<i>Serraniculus pumilio</i>)			65					3.72 (3.21)		
Ocean Pout (<i>Macrozoarces americanus</i>)										
Rough Scad (<i>Trachurus lathami</i>)	38		1	5		4.75 (1.63)		0.06 (0.06)	0.83 (0.15)	
Round Scad (<i>Decaterus punctatus</i>)			92					5.11 (1.36)		
Round Herring (<i>Etrumeus teres</i>)		2								
Scup (<i>Stenotomus chrysops</i>)	8	1	19	20	693	1.00 (0.50)	0.25 (0.25)	1.06 (0.47)	3.33 (0.49)	57.75 (31.91)
Searobin (<i>Prionotus</i> spp.)	278	242	435	291	479	34.75 (23.50)	30.25 (6.64)	24.17 (2.59)	48.50 (6.74)	39.92 (10.25)
Silver Hake (<i>Merluccius bilinearis</i>)					1					0.08 (0.08)
Skate (<i>Raja</i> spp.)	93	11	110	19	120	11.63 (3.06)	1.38 (0.46)	6.33 (1.27)	3.17 (0.44)	10.00 (2.58)
Smallmouth Flounder (<i>Etropus microstomus</i>)		213	221	15	4		26.63 (9.19)	12.28 (2.72)	2.50 (0.61)	0.33 (0.19)
Smooth Dogfish (<i>Mustelus canis</i>)	48		9		31	6.00 (1.49)		0.50 (0.17)		2.58 (0.74)
Spanish Mackerel (<i>Scomberomorus maculatus</i>)			1					0.06 (0.06)		
Striped Cusk Eel (<i>Ophidion marginatum</i>)	2				5	0.25 (0.25)				0.42 (0.26)
Summer Flounder (<i>Paralichthys dentatus</i>)	213	261	119	66	63	26.63 (15.18)	32.63 (3.95)	6.67 (1.23)	11.00 (0.83)	5.25 (1.30)
Triggerfish (<i>Balistes</i> spp.)	7					0.88 (0.52)				
Wahoo (<i>Acanthocybium solanderi</i>)			1					0.06 (0.06)		
Weakfish (<i>Cynoscion regalis</i>)	22		23		316	2.75 (2.75)		1.28 (0.67)		26.33 (7.05)
Windowpane (<i>Scophthalmus aquosus</i>)	42	55	71	22	140	5.25 (2.66)	6.88 (1.33)	3.94 (1.10)	3.67 (0.38)	11.67 (2.48)
Winter Flounder (<i>Pleuronectes americanus</i>)	1	3		1		0.13 (0.13)	0.38 (0.26)		0.17 (0.05)	
Total Number of Fish Collected:	2535	2739	2E+05	1262	17258	16.88 (181.13)	142.40 (70.37)	993.78 (1263.90)	210.33 (87.7)	1438.17 (556.90)
Total Number of Taxa Collected:	27	19	27	11	29					

Appendix Table 9-7. Total catch and catch per tow for BBA-6 during the Fall sampling efforts, 1995-1999. Standard error is recorded in parentheses ().

Taxa	Total Abundance					Catch Per Tow (SE)				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
African Pompano (<i>Alectis ciliaris</i>)		2					0.33 (0.21)			
American Sand Lance (<i>Ammodytes hexapterus</i>)		13	11				2.17 (1.97)	0.65 (0.28)		
Atlantic Croaker (<i>Micropomias undulatus</i>)	1				24	0.20 (0.20)				2.67 (1.69)
Atlantic Stingray (<i>Dasyatis sabina</i>)					1					0.11 (0.11)
Banded Rudderfish (<i>Seriola zonata</i>)					4					0.44 (0.24)
Bigeye Scad (<i>Selar crumenophthalmus</i>)					14					1.56 (0.53)
Black Sea Bass (<i>Centropristis striata</i>)	18	45	101	79	268	3.60 (1.75)	7.50 (3.23)	5.94 (2.44)	8.78 (4.82)	29.78 (16.12)
Bluefish (<i>Pomatomus saltatrix</i>)	1	1	4		2	0.20 (0.20)	0.17 (0.17)	0.29 (0.14)		0.22 (0.15)
Bluespotted Cornetfish (<i>Fistularia tabacaria</i>)				2					0.22 (0.15)	
Butterfish (<i>Peprilus triacanthus</i>)	870	658	55499	9807	280	174.00 (64.86)	109.67 (28.90)	3264.65 (912.54)	089.67 (166.74)	31.11 (13.55)
Conger Eel (<i>Conger oceanicus</i>)			1	1				0.06 (0.06)	0.11 (0.11)	
Creville Jack (<i>Caranx hippos</i>)					1					0.11 (0.11)
Cunner (<i>Tautoglabrus adspersus</i>)	1			1		0.20 (0.20)			0.11 (0.11)	
Dwarf Goatfish (<i>Upeneus parvus</i>)			4					0.24 (0.14)		
Fourbeard Rockling (<i>Enchelyopus cimbrius</i>)			1					0.06 (0.06)		
Fourspot Flounder (<i>Paralichthys oblongus</i>)		6	77				1.00 (1.00)	4.59 (1.01)		
Glasseye Snapper (<i>Priacanthus cruentatus</i>)		1					0.17 (0.17)			
Gray Triggerfish (<i>Balistes capriscus</i>)			1		1			0.06 (0.06)		0.11 (0.11)
Greater Amberjack (<i>Seriola dumerili</i>)	1				4	0.20 (0.20)				0.44 (0.44)
Gulf Stream Flounder (<i>Citharichthys arctifon</i>)	1					0.20 (0.20)				
Hake (<i>Urophycis</i> spp.)	7	44	65	17	6	1.40 (1.40)	7.33 (2.64)	3.82 (0.74)	1.89 (0.65)	0.67 (0.37)
Inshore Lizardfish (<i>Synodus foetens</i>)					44					4.89 (0.99)
King Mackerel (<i>Scomberomorus cavalla</i>)					4					0.44 (0.24)
Mackerel Scad (<i>Decapterus macarellus</i>)		25					4.17 (2.41)			
Northern Kingfish (<i>Menticirrhus saxatilis</i>)					138					15.33 (4.20)
Northern Pipefish (<i>Syngnathus fuscus</i>)			5					0.29 (0.14)		
Northern Puffer (<i>Spherooides maculatus</i>)					131					14.56 (7.86)
Northern Stargazer (<i>Astroscopus guttatus</i>)					1					0.11 (0.11)
Pilotfish (<i>Naukrates ductor</i>)			1					0.06 (0.06)		
Pygmy Seabass (<i>Serraniculus pumilio</i>)			14					0.82 (0.48)		
Ocean Pout (<i>Macrozoarces americanus</i>)			1					0.06 (0.06)		
Red Goatfish (<i>Mullus auratus</i>)		1					0.17 (0.17)			
Rough Scad (<i>Trachurus lathami</i>)	41					8.20 (4.21)				
Round Herring (<i>Etrumeus teres</i>)	6	2				1.20 (1.20)	0.33 (0.21)			
Round Scad (<i>Decaterus punctatus</i>)			24					1.41 (0.26)		
Scup (<i>Stenotomus chrysops</i>)	11	2	79	2	593	2.20 (1.71)	0.33 (0.21)	4.65 (1.85)	0.22 (0.22)	65.89 (22.74)
Searobin (<i>Prionotus</i> spp.)	238	84	64	36	207	47.60 (7.22)	14.00 (1.69)	3.76 (0.77)	4.00 (1.09)	23.00 (3.60)
Short Bigeye (<i>Pristigenys alta</i>)										
Silver Hake (<i>Merluccius bilinearis</i>)					5					0.56 (0.38)
Skate (<i>Raja</i> spp.)	476	1807	135	51	435	95.20 (47.64)	301.17 (26.13)	7.94	5.67 (1.30)	48.33 (3.94)
Smallmouth Flounder (<i>Etropus microstomus</i>)		36	168	8			6.00 (1.73)	9.82 (1.83)	0.89 (0.31)	
Smooth Dogfish (<i>Mustelus canis</i>)	86	27	5	11	15	17.20 (4.07)	4.50 (1.63)	0.29 (0.11)	1.22 (0.60)	1.67 (0.60)
Summer Flounder (<i>Paralichthys dentatus</i>)	188	60	98	23	79	37.60 (20.41)	10.00 (2.13)	5.76 (0.72)	2.56 (0.53)	8.78 (1.59)
Tautog (<i>Tautoga onitis</i>)				1	2				0.11 (0.11)	0.22 (0.15)
Triggerfish (<i>Balistes</i> spp.)	1					0.20 (0.20)				
Weakfish (<i>Cynoscion regalis</i>)			2		37			0.12 (0.12)		4.11 (2.76)
Windowpane (<i>Scopthalmus aquosus</i>)	14	76	33	23	35	2.80 (1.16)	12.67 (0.95)	1.94 (0.45)	2.56 (0.67)	3.89 (0.51)
Winter Flounder (<i>Pleuronectes americanus</i>)	5	11	1	2		1.00 (0.45)	1.83 (0.48)	0.06 (0.06)	0.22 (0.15)	
Wolfish (<i>Anarhichas lupus</i>)					1					0.11 (0.11)
Total Number of Fish Collected:	1966	2901	56394	10064	2332	893.20 (40.73)	183.50 (47.76)	317.29 (912.62)	118.22 (168.2)	59.11 (43.99)
Total Number of Taxa Collected:	18	19	24	15	26					