

ECOLOGICAL STUDY OF THE TIDAL SEGMENT OF THE
JAMES RIVER ENCOMPASSING HOG POINT

1975 Final Technical Report

Appendices to

Section 3.A

PLANT ENTRAINMENT OF ICHTHYOPLANKTON
AT THE VEPCO NUCLEAR POWER STATION

by

John V. Merriner
and
A. Deane Estes

Special Scientific Report No. 76

Virginia Institute of Marine Science
Gloucester Point, Virginia 23062

November 1976

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Appendix Table 1. Species and number of fish captured during 24-hour plant entrainment stations at VEPCO Surry Nuclear Power Station from April, 1975 through June, 1976 (Decimal points are product of computer program to obtain numbers/100m³; station time is expressed as hour and tenths, EST).

Appendix Table 1. (continued)

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APRIL 22 - APRIL 23, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
93													
BREVOORTIA TYRANNUS		7.00	17.00	9.00	9.00	1.00			3.00	9.00	8.00	3.00	6.00
LEIOSTOMUS XANTHURUS				1.00									1.00
ANGUILLA ROSTRATA													
ANCHOA MITCHILLI		1.00	2.00							1.00	1.00		
MENIDIA BERYLLINA												1.00	
UNIDENTIFIED								1.00					
132													
BREVOORTIA TYRANNUS		16.00	34.00	5.00	7.00	1.00		2.00	4.00	6.00	5.00	8.00	6.00
MICROPOGON UNDULATUS				1.00	1.00								
LEIOSTOMUS XANTHURUS					1.00	2.00				1.00	2.00		1.00
ANCHOA MITCHILLI		150.00	130.00	15.00	3.00	2.00	3.00	1.00	1.00	2.00			1.00
MENIDIA BERYLLINA				1.00									
UNIDENTIFIED		1.00											
168													
BREVOORTIA TYRANNUS		12.00	6.00	2.00	7.00	4.00	8.00	4.00	1.00	8.00	6.00	12.00	14.00
MICROPOGON UNDULATUS					1.00		1.00						
LEIOSTOMUS XANTHURUS				6.00	2.00	1.00	2.00			5.00	5.00		1.00
ANGUILLA ROSTRATA						1.00							
ANCHOA MITCHILLI						1.00			1.00		1.00	2.00	5.00
MENIDIA BERYLLINA									1.00				
UNIDENTIFIED											1.00		
210													
LEIOSTOMUS XANTHURUS		5.00	1.00	2.00	2.00	1.00	1.00			9.00	3.00	2.00	3.00
MICROPOGON UNDULATUS				1.00	3.00						1.00		
BREVOORTIA TYRANNUS		3.00	4.00	5.00	2.00	2.00	1.00	2.00		8.00	5.00	1.00	3.00
ANGUILLA ROSTRATA		4.00	2.00					1.00	3.00	2.00			1.00
ANCHOA MITCHILLI				1.00	1.00			2.00		5.00	6.00	3.00	4.00
MENIDIA BERYLLINA								1.00	2.00				

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[illegible]

Appendix Table 1. (continued)

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MAY1 - MAY 2, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	91												
BREVOORTIA TYRANNUS			1.00		1.00						1.00		1.00
CYPRINUS CARPIO												1.00	
ANCHOA MITCHILLI												1.00	1.00
MENIDIA MENIDIA			1.00										
	129												
BREVOORTIA TYRANNUS					1.00			1.00	2.00	1.00		2.00	2.00
ANCHOA MITCHILLI										1.00			1.00
UNIDENTIFIED					1.00								
	169												
NOTROPIS HUDSONIUS			1.00										
LEIOSTOMUS XANTHURUS													1.00
BREVOORTIA TYRANNUS						6.00	2.00		1.00			5.00	2.00
CYPRINUS CARPIO												1.00	
ANCHOA MITCHILLI													1.00
MENIDIA MENIDIA			2.00										
	210												
MICROPOGON UNDULATUS					1.00							1.00	
LEIOSTOMUS XANTHURUS				4.00	3.00	4.00	5.00		6.00	6.00			3.00
BREVOORTIA TYRANNUS				5.00	1.00		3.00			1.00			1.00
ANCHOA MITCHILLI						1.00	2.00			1.00		1.00	1.00

Appendix Table 1. (continued)

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SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	10												
LEIOSTOMUS XANTHURUS		1.00		16.00	5.00	2.00	2.00			4.00	13.00	1.00	2.00
MICROPUGON UNDULATUS					1.00	1.00					1.00		
BREVOORTIA TYRANNUS				2.00						3.00	4.00	1.00	
ANGUILLA ROSTRATA											1.00		
ANCHOA MITCHILLI										1.00			
UNIDENTIFIED								1.00		1.00			
	50												
LEIOSTOMUS XANTHURUS											2.00	4.00	3.00
BREVOORTIA TYRANNUS					1.00	2.00	1.00					3.00	1.00
UNIDENTIFIED					1.00								

MAY 7 - MAY 8, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	88												
DOROSOMA SPP.			1.00										
DOROSOMA CEPEDIANUM							1.00						
CYPRINUS CARPIO				1.00									
ANCHOA MITCHILLI												1.00	
UNIDENTIFIED				1.00			1.00					2.00	
	131												
DOROSOMA SPP.								1.00					
UNIDENTIFIED				2.00									
	169												
DOROSOMA CEPEDIANUM		4.00											
ALOSA PSEUDOHARENGUS										1.00			
BREVOORTIA TYRANNUS												1.00	1.00
NOTROPIS HUDSONIUS			2.00										
DOROSOMA SPP.			1.00										
UNIDENTIFIED										1.00			
	210												
ANGUILLA ROSTRATA			1.00										
MICROPOGON UNDULATUS						1.00							
LEIOSTOMUS XANTHURUS				1.00							5.00		1.00
BREVOORTIA TYRANNUS										4.00	3.00	1.00	1.00
ANCHOA MITCHILLI											1.00		
MENIDIA BERYLLINA										1.00			
DOROSOMA SPP.				1.00									
UNIDENTIFIED					1.00								
SPECIMEN MANGLED									1.00				

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[illegible]

MAY 14 - MAY 15, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
89													
CYPRINUS CARPIO					1.00		1.00		1.00				
LEIOSTOMUS XANTHURUS				1.00									
ANCHOA MITCHILLI												1.00	
NOTROPIS HUDSONIUS					2.00								
MENIDIA BERYLLINA								1.00					
DOROSOMA PETENENSE		2.00								2.00	2.00		3.00
UNIDENTIFIED											1.00		
130													
DOROSOMA PETENENSE		13.00						1.00		2.00			
ANCHOA MITCHILLI													1.00
NOTROPIS HUDSONIUS								1.00					
GOBIOSOMA BOSCI				1.00									
UNIDENTIFIED				2.00	2.00					1.00			
169													
CYPRINUS CARPIO		1.00											1.00
BREVOORTIA TYRANNUS									1.00				
ANCHOA MITCHILLI											1.00		
NOTROPIS HUDSONIUS				1.00	1.00						1.00		
MENIDIA BERYLLINA			1.00										
DOROSOMA PETENENSE		64.00	54.00			1.00				1.00	1.00	3.00	
UNIDENTIFIED		1.00		5.00	5.00			1.00				1.00	

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
211													
LEIOSTOMUS XANTHURUS			1.00	3.00	4.00	1.00	2.00		2.00	2.00	1.00	4.00	3.00
MICROPOGON UNDULATUS				3.00									
BREVOORTIA TYRANNUS								1.00					1.00
CYPRINUS CARPIO			1.00							1.00		2.00	1.00
ANGUILLA ROSTRATA	1.00												
ANCHOA MITCHILLI											1.00		
NOTROPIS HUDSONIUS	14.00		3.00		3.00							1.00	1.00
GOBIOSOMA BOSCI								5.00	3.00	4.00			
MEMBRAS MARTINICA							1.00						
MENIDIA BERYLLINA			1.00										
DOROSOMA PETENENSE			1.00									1.00	
UNIDENTIFIED	6.00		10.00	4.00	7.00			1.00	1.00	3.00	1.00	5.00	3.00
11													
NOTROPIS HUDSONIUS	2.00			1.00									
MICROPOGON UNDULATUS				1.00									
LEIOSTOMUS XANTHURUS				5.00	1.00		1.00		1.00	6.00		1.00	1.00
ANGUILLA ROSTRATA									1.00				
ANCHOA MITCHILLI											1.00		
MENIDIA BERYLLINA	2.00				1.00								
DOROSOMA PETENENSE	1.00												3.00
50													
NOTROPIS HUDSONIUS			1.00										
MICROPOGON UNDULATUS										1.00			
LEIOSTOMUS XANTHURUS								1.00		1.00		1.00	
BREVOORTIA TYRANNUS									1.00				
CYPRINUS CARPIO							2.00	1.00					
GOBIOSOMA BOSCI											1.00		
DOROSOMA PETENENSE	1.00				1.00		2.00			1.00			1.00
UNIDENTIFIED					1.00	2.00	2.00				1.00	1.00	2.00

MAY 22 - MAY 23, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
88													
LEIOSTOMUS XANTHURUS							1.00						
ICTALURUS PUNCTATUS													1.00
MENIDIA BERYLLINA								1.00					
MENIDIA MENIDIA								1.00					
DOROSOMA PETENENSE					1.00								
129													
SPECIMEN MANGLED						1.00							
DOROSOMA PETENENSE		6.00	7.00	9.00	5.00	1.00		1.00	1.00	2.00	2.00	1.00	2.00
LEIOSTOMUS XANTHURUS						1.00			1.00				
GOBIOSOMA BOSCI				1.00			1.00						1.00
MENIDIA BERYLLINA				1.00									
MENIDIA MENIDIA									1.00			1.00	1.00
DOROSOMA SPP.				1.00									
170													
LEIOSTOMUS XANTHURUS			1.00			3.00	1.00			1.00	1.00		
CYPRINUS CARPIO							1.00			1.00			
ANGUILLA ROSTRATA							1.00						
GOBIOSOMA BOSCI												1.00	
MENIDIA MENIDIA				1.00									
210													
MICROPOGON UNDULATUS							1.00						
LEIOSTOMUS XANTHURUS				2.00		5.00	2.00		1.00				
GOBIOSOMA BOSCI						1.00							
MEMBRAS MARTINICA											1.00		
MENIDIA MENIDIA				1.00		2.00						3.00	
DOROSOMA PETENENSE					1.00								
SPECIMEN MANGLED								1.00					

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	10												
BREVOORTIA TYRANNUS			1.00										
LEIOSTOMUS XANTHURUS				2.00	1.00	1.00	2.00			1.00	2.00		1.00
DOROSOMA CEPEDIANUM		1.00		1.00									
CYPRINUS CARPIO											1.00		
FUNDULUS DIAPHANUS								1.00					
FUNDULUS MAJALIS				1.00									
GOBIOSOMA BOSCI					1.00			1.00					
MENIDIA MENIDIA		2.00						2.00	1.00				
MENIDIA SP.							1.00					1.00	
DOROSOMA PETENENSE					1.00		1.00	1.00					
DOROSOMA SPP.					1.00							1.00	
	48												
LEIOSTOMUS XANTHURUS					1.00			1.00	1.00			1.00	
DOROSOMA CEPEDIANUM									1.00	1.00			1.00
CYPRINUS CARPIO											1.00		
FUNDULUS HETEROCLITUS											1.00		
LEPOMIS MACROCHIRUS									1.00				

Appendix Table 1. (continued)

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MAY 29 - MAY 30, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	90												
GOBIOSOMA BOSCI												1.00	
	129												
MENIDIA BERYLLINA		5.00											
ANCHOA MITCHILLI										1.00			
MEMBRAS MARTINICA							1.00						
DOROSOMA PETENENSE												1.00	
	170												
ANCHOA MITCHILLI		2.00											
MICROPOGON UNDULATUS						1.00							
GOBIOSOMA BOSCI				1.00	3.00	2.00	1.00		1.00	2.00	2.00	2.00	3.00
MEMBRAS MARTINICA				1.00									
MENIDIA BERYLLINA		3.00	1.00	1.00	1.00		1.00					1.00	
MENIDIA MENIDIA		3.00				4.00	2.00						
DOROSOMA PETENENSE					4.00	1.00							
DOROSOMA SPP.		8.00	2.00				1.00						
SPECIMEN MANGLED		2.00											
	210												
LEIOSTOMUS XANTHURUS										1.00			
ICTALURUS PUNCTATUS									1.00	1.00	3.00	1.00	2.00
CYPRINUS CARPIO													1.00
GOBIOSOMA BOSCI												1.00	
MENIDIA MENIDIA								1.00	1.00				
DOROSOMA SPP.									1.00			1.00	

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	10												
ANGUILLA RUSTRATA		1.00											
LEIOSTOMUS XANTHURUS				2.00		1.00				1.00	1.00	1.00	
BREVOORTIA TYRANNUS										1.00			
FUNDULUS DIAPHANUS						1.00							
FUNDULUS HETEROCLITUS											1.00		
GOBIOSOMA BOSCI				4.00	1.00			1.00		1.00		1.00	5.00
MENIDIA BERYLLINA					1.00								
MENIDIA MENIDIA				2.00			1.00						
DOROSOMA SPP.								1.00					
SPECIMEN MANGLED					3.00								
	51												
GOBIOSOMA BOSCI		2.00		3.00	2.00	2.00	5.00	1.00		1.00	2.00	8.00	7.00
ANCHOA MITCHILLI												1.00	1.00
MEMBRAS MARTINICA						1.00							
MENIDIA BERYLLINA					1.00								
MENIDIA MENIDIA							4.00	1.00					
ALOSA SP.					1.00								
DOROSOMA PETENENSE						1.00			1.00				

JUNE 4 - JUNE 5, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
91													
ANCHOA MITCHILLI		2.00		6.00	2.00	3.00	5.00		1.00	3.00	3.00	6.00	7.00
GOBIOSOMA BOSCI		1.00		19.00	15.00	18.00	25.00	2.00	1.00	20.00	19.00	22.00	26.00
DOROSOMA PETENENSE				1.00									
SPECIMEN MANGLED										1.00	1.00		
130													
GOBIOSOMA BOSCI			1.00	1.00	4.00		2.00	4.00	2.00	13.00	7.00	9.00	13.00
DOROSOMA CEPEDIANUM											1.00		
CYPRINUS CARPIO										1.00			
ANCHOA MITCHILLI								1.00	1.00	2.00	1.00	1.00	1.00
MEMBRAS MARTINICA		1.00	1.00										
DOROSOMA PETENENSE										1.00			
169													
GOBIOSOMA BOSCI		1.00	1.00	22.00	6.00	1.00	2.00	7.00	7.00	10.00	9.00	26.00	38.00
ANCHOA MITCHILLI				1.00			1.00	1.00	1.00	3.00		7.00	5.00
MEMBRAS MARTINICA		2.00											
DOROSOMA PETENENSE			1.00							1.00			
211													
ANCHOA MITCHILLI		1.00	2.00	3.00	10.00	13.00	11.00	4.00	6.00	10.00	10.00	15.00	18.00
ALOSA AESTIVALIS						1.00							
LEIOSTOMUS XANTHURUS												1.00	1.00
SYNGNATHUS FUSCUS					1.00	2.00							
GOBIOSOMA BOSCI		20.00	33.00	38.00	40.00	39.00	60.00	10.00	15.00	61.00	59.00	102.00	114.00
MEMBRAS MARTINICA						1.00							
MENIDIA BERYLLINA			1.00	1.00									
MENIDIA MENIDIA		2.00	10.00	4.00	2.00		2.00	1.00	1.00		3.00	3.00	4.00
DOROSOMA PETENENSE										1.00		1.00	1.00

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	10												
ANCHOA MITCHELLI			1.00	1.00	2.00	2.00	4.00		1.00	2.00	2.00	2.00	
GOBIOSOMA BOSCHI		6.00	8.00	14.00	8.00	14.00	18.00	1.00	3.00	1.00	9.00	10.00	14.00
MEMBRAS MARTINICA				1.00		1.00		2.00		1.00			
MENIDIA MENIDIA		23.00	18.00	5.00	1.00	2.00	1.00	2.00	3.00	1.00	1.00	1.00	
DOROSOMA PETENSE		1.00				1.00	4.00				3.00		
	48												
GOBIOSOMA BOSCHI		5.00	3.00	27.00	12.00	194.00	173.00	8.00	27.00	19.00	23.00	220.00	228.00
ANCHOA MITCHELLI				3.00	1.00	71.00	56.00	7.00	6.00	6.00	4.00	24.00	23.00
SYNGNATHUS FUSCUS													1.00
MEMBRAS MARTINICA												1.00	1.00
MENIDIA BERYLLINA													
MENIDIA MENIDIA										1.00			1.00

JUNE 11 - JUNE 12, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
88													
ANCHOA MITCHILLI		3.00	2.00	11.00	1.00	4.00	1.00	13.00	4.00	35.00	41.00	31.00	40.00
LEIOSTOMUS XANTHURUS					1.00								
SYNGNATHUS FUSCUS				1.00	1.00				1.00	1.00			
GOBIOSOMA BOSCI		1.00		99.00	59.00	3.00	1.00	2.00	1.00	53.00	33.00	69.00	53.00
MENIDIA MENIDIA		12.00	4.00	1.00							1.00		
SPECIMEN MANGLED			1.00										
128													
ANCHOA MITCHILLI		1.00		6.00		6.00	15.00	10.00	4.00	70.00	53.00	94.00	77.00
GOBIOSOMA BOSCI						14.00	19.00		7.00	40.00	35.00	54.00	62.00
MEMBRAS MARTINICA				1.00								2.00	
MENIDIA BERYLLINA					1.00	2.00	1.00		2.00				
MENIDIA MENIDIA		20.00	33.00										
UNIDENTIFIED								1.00					
170													
ANCHOA MITCHILLI		4.00		9.00	12.00	264.00	272.00	15.00	20.00	32.00	50.00	38.00	38.00
ALOSA AESTIVALIS													1.00
LEIOSTOMUS XANTHURUS						1.00							
ICTALURUS PUNCTATUS													1.00
GOBIOSOMA BOSCI		1.00		9.00	15.00	31.00	31.00	5.00	1.00	10.00	6.00	13.00	9.00
MEMBRAS MARTINICA			1.00										
MENIDIA BERYLLINA							1.00			3.00	1.00		1.00
MENIDIA MENIDIA		4.00		1.00	1.00								

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
190													
ANGUILLA ROSTRATA			1.00	1.00								1.00	
ALOSA AESTIVALIS													1.00
LEIOSTOMUS XANTHURUS						1.00						1.00	
BREVOORTIA TYRANNUS								1.00	1.00				
ANCHOA MITCHILLI	1.00	1.00	26.00	35.00	9.00	16.00	4.00	5.00	12.00	12.00	20.00	16.00	
SYNGNATHUS FUSCUS				1.00									
GOBIOSOMA BOSCI		3.00	25.00	25.00	9.00	10.00	2.00	1.00	10.00	14.00	31.00	34.00	
MENIDIA BERYLLINA													1.00
MENIDIA MENIDIA			1.00		1.00			2.00	1.00	1.00			
SPECIMEN MANGLED											4.00		
13													
LEIOSTOMUS XANTHURUS			1.00							1.00			
ALOSA AESTIVALIS										1.00			
ANCHOA MITCHILLI	6.00	9.00	69.00	61.00	234.00	263.00	38.00	16.00	46.00	34.00	55.00	54.00	
SYNGNATHUS FUSCUS			1.00		2.00		1.00		1.00	1.00			
GOBIOSOMA BOSCI	12.00	13.00	92.00	103.00	117.00	109.00	24.00	13.00	52.00	58.00	57.00	66.00	
MENIDIA BERYLLINA						1.00							1.00
MENIDIA MENIDIA			1.00			1.00	6.00	1.00					
52													
ANCHOA MITCHILLI	23.00	14.00	24.00	20.00	41.00	28.00	7.00	5.00	13.00	8.00	15.00	17.00	
MICROPOGON UNDULATUS					1.00					1.00			
LEIOSTOMUS XANTHURUS					2.00								
SYNGNATHUS FUSCUS													1.00
GOBIOSOMA BOSCI	11.00	8.00	18.00	8.00	17.00	30.00	4.00	5.00	16.00	18.00	15.00	11.00	
MENIDIA BERYLLINA	1.00						1.00						
MENIDIA MENIDIA											1.00		

JUNE 17 - JUNE 18, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
88 ANCHOA MITCHILLI GOBIOSOMA BOSCI		1.00	1.00	46.00 17.00	46.00 13.00	25.00 21.00	15.00 21.00	2.00 3.00	1.00 4.00	9.00 16.00	5.00 10.00	14.00 21.00	18.00 24.00
130 ANCHOA MITCHILLI GOBIOSOMA BOSCI		2.00	1.00	9.00 9.00	9.00 7.00	24.00 98.00	15.00 122.00	7.00 8.00	4.00 4.00	4.00 6.00	8.00 3.00	24.00 20.00	31.00 26.00
170 ANCHOA MITCHILLI SYNGNATHUS FUSCUS GOBIOSOMA BOSCI MENIDIA MENIDIA		2.00 1.00	1.00	3.00 7.00	10.00 6.00		5.00 13.00	3.00	4.00	6.00 4.00	4.00 1.00	50.00 68.00 1.00	67.00 77.00
212 ANCHOA MITCHILLI BREVOORTIA TYRANNUS GOBIOSOMA BOSCI MEMBRAS MARTINICA MENIDIA BERYLLINA MENIDIA MENIDIA SPECIMEN MANGLED		3.00 26.00 1.00 1.00	20.00 11.00 1.00 5.00	71.00 31.00 2.00	66.00 32.00	34.00 33.00 1.00	31.00 25.00	10.00 1.00 3.00 2.00 1.00	21.00 6.00	20.00	26.00 43.00	28.00 18.00 1.00 1.00	31.00 1.00 13.00 2.00
10 ANCHOA MITCHILLI ALOSA PSEUDOHARENGUS LEIOSTOMUS XANTHURUS ANGUILLA ROSTRATA SYNGNATHUS FUSCUS GOBIOSOMA BOSCI MEMBRAS MARTINICA		22.00 7.00	8.00 14.00	62.00 94.00	51.00 93.00	37.00 114.00	32.00 133.00	13.00 7.00	15.00 12.00	26.00 16.00	22.00 14.00	29.00 93.00 2.00	31.00 72.00

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	49												
ANCHOA MITCHILLI		3.00		8.00	1.00	32.00	30.00	5.00	17.00	15.00	31.00	85.00	80.00
SYNGNATHUS FUSCUS					1.00					1.00			
GOBIOSOMA BOSCI		6.00		10.00	10.00	20.00	26.00	6.00	10.00	23.00	20.00	278.00	307.00
MENIDIA MENIDIA							1.00						

JUNE 24 - JUNE 25, 1975

[illegible]

Appendix Table 1. (continued)

68

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	13												
ANCHOA MITCHILLI		1.00	6.00	29.00	36.00	18.00	21.00	9.00	7.00	19.00	37.00	12.00	16.00
GOBIOSOMA BOSCI		3.00	11.00	113.00	133.00	128.00	161.00	16.00	47.00	129.00	131.00	146.00	160.00
MEMBRAS MARTINICA							1.00						
MENIDIA BERYLLINA			1.00										
MENIDIA MENIDIA		1.00		1.00	1.00					3.00	2.00	1.00	
	49												
ANCHOA MITCHILLI		6.00	2.00	93.00	93.00	28.00	16.00	3.00	2.00	11.00	12.00	19.00	11.00
GOBIOSOMA BOSCI		12.00	6.00	113.00	123.00	43.00	33.00	8.00	5.00	39.00	25.00	53.00	20.00
MEMBRAS MARTINICA								1.00					
SPECIMEN MANGLED					1.00	1.00						2.00	

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Appendix Table 1. (continued)

70

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	50												
ANCHOA MITCHILLI		2.00		6.00	4.00	16.00	4.00	1.00	3.00	10.00	5.00	14.00	24.00
GOBIOSOMA BOSCI		14.00		8.00	8.00	11.00	8.00		3.00	11.00	15.00	23.00	23.00
SPECIMEN MANGLED						1.00							

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71

[illegible]

Appendix Table 1. (continued)

72

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	50												
ANCHOA MITCHILLI		6.00	5.00	170.00	125.00	77.00	92.00	18.00	6.00	84.00	70.00	36.00	28.00
MICROPOGON UNDULATUS				1.00						1.00			
GOBIOSOMA BOSCI			2.00	107.00	135.00	84.00	95.00	20.00	27.00	122.00	131.00	48.00	54.00
SPECIMEN MANGLED.									1.00				

Appendix Table 1. (continued)

73

AUGUST 13 - AUGUST 14, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
92													
ANCHOA MITCHILLI		7.00	11.00	37.00	40.00	13.00	14.00	6.00	5.00	4.00	8.00	13.00	9.00
GOBIOSOMA BOSCI				19.00	27.00	47.00	45.00	9.00	6.00	16.00	10.00	32.00	28.00
MEMBRAS MARTINICA							1.00						
MENIDIA BERYLLINA		11.00		1.00	1.00	2.00							
MENIDIA MENIDIA									1.00				
135													
ANCHOA MITCHILLI				9.00	3.00		2.00	5.00	9.00	16.00	11.00	7.00	19.00
GOBIOSOMA BOSCI				20.00	9.00	1.00	3.00	10.00	5.00	22.00	16.00	19.00	27.00
SPECIMEN MANGLED					2.00								
170													
ANCHOA MITCHILLI			7.00	25.00	27.00	20.00	30.00	18.00	12.00	12.00	30.00	56.00	38.00
GOBIOSOMA BOSCI		2.00	11.00	30.00	29.00	20.00	16.00	34.00	25.00	40.00	25.00	47.00	42.00
MICROPOGON UNDULATUS									1.00				
SPECIMEN MANGLED												1.00	
210													
ANCHOA MITCHILLI		1.00		41.00			49.00	17.00	16.00	18.00	24.00	28.00	21.00
MICROPOGON UNDULATUS				2.00			2.00	2.00	2.00	6.00	2.00	5.00	3.00
CYNOSCION REGALIS								1.00					
GOBIOSOMA BOSCI				46.00			38.00	11.00	20.00	15.00	12.00	23.00	24.00
TRINECTES MACULATUS											1.00		
SPECIMEN MANGLED								1.00		1.00			
11													
ANCHOA MITCHILLI		1.00		44.00	67.00	27.00	33.00	18.00	22.00	25.00	32.00	30.00	32.00
MICROPOGON UNDULATUS							1.00	1.00	1.00	1.00		1.00	
ALOSA AESTIVALIS													1.00
GOBIOSOMA BOSCI				30.00	44.00	32.00	39.00	42.00	30.00	51.00	52.00	114.00	118.00

Appendix Table 1. (continued)

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	50												
ANCHOA MITCHILLI		6.00	10.00	36.00	20.00	22.00	26.00	15.00	18.00	15.00	16.00	32.00	22.00
MICROPOGON UNDULATUS								1.00	1.00	1.00			
SYNGNATHUS FUSCUS								2.00					
GOBIOSOMA BOSCHI		2.00	3.00	65.00	56.00	22.00	27.00	16.00	26.00	22.00	16.00	32.00	35.00
MENIDIA BERYLLINA												1.00	
SPECIMEN MANGLED										1.00			

Appendix Table 1. (continued)

75

SEPTEMBER 3 - SEPTEMBER 4, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
92													
ANCHOA MITCHILLI						5.00	4.00	1.00	1.00	1.00	1.00	8.00	2.00
GOBIOSOMA BOSCI						1.00	1.00	2.00	1.00			5.00	2.00
MENIDIA MENIDIA													1.00
SPECIMEN MANGLED													
131													
ANCHOA MITCHILLI		9.00	6.00	1.00	3.00			1.00		1.00	1.00	4.00	6.00
SYNGNATHUS FUSCUS				1.00									1.00
GOBIOSOMA BOSCI			1.00	2.00		1.00		2.00	3.00			2.00	4.00
MENIDIA MENIDIA				2.00		2.00	1.00	1.00					
170													
ANCHOA MITCHILLI		12.00	7.00	2.00		3.00	1.00	2.00	4.00	9.00	6.00	6.00	6.00
GOBIOSOMA BOSCI				1.00	1.00			2.00		1.00	1.00	5.00	1.00
MENIDIA MENIDIA						1.00							
210													
MENIDIA SP.		1.00											
MICROPOGON UNDULATUS									1.00		1.00	1.00	
ANGUILLA ROSTRATA													1.00
ANCHOA MITCHILLI				36.00	21.00	5.00	2.00	7.00	15.00	13.00	18.00	21.00	21.00
GOBIOSOMA BOSCI				9.00	4.00	6.00	2.00	3.00	1.00	4.00	2.00	12.00	13.00
MEMBRAS MARTINICA					1.00		1.00						
MENIDIA BERYLLINA									1.00				1.00
MENIDIA MENIDIA												1.00	
SPECIMEN MANGLED										1.00			

Appendix Table 1. (continued)

76

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	12												
ANCHOA MITCHILLI		2.00	3.00	14.00	21.00	25.00	10.00	7.00	7.00	11.00	7.00	17.00	18.00
MICROPOGON UNDULATUS													1.00
ALOSA AESTIVALIS										1.00	1.00		
NOTROPIS BIFRENATUS			1.00										
GOBIOSOMA BOSCI				2.00	1.00	3.00	1.00	1.00	1.00	2.00	2.00	1.00	4.00
MENIDIA BERYLLINA										2.00		1.00	
MENIDIA MENIDIA					1.00	1.00							
TRINECTES MACULATUS				1.00						1.00			
	51												
MENIDIA BERYLLINA		1.00											
ANCHOA MITCHILLI				3.00	5.00	17.00	10.00	5.00	3.00	5.00	11.00	12.00	8.00
GOBIOSOMA BOSCI				4.00	2.00	4.00	3.00	2.00				9.00	3.00

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INTAKE

DISCHARGE

[illegible]

Appendix Table 1. (continued)

78

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	49												
MENIDIA BERYLLINA		1.00											
MICROPOGON UNDULATUS				25.00	18.00	6.00	4.00			17.00	38.00	24.00	32.00
ALOSA AESTIVALIS				1.00			1.00	2.00					1.00
ETHEOSTOMA OLMSTEDI										1.00			
ANCHOA MITCHILLI				8.00	11.00	1.00	1.00			3.00	3.00	1.00	5.00
GOBIOSOMA BOSCI					1.00							1.00	

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INTAKE

DISCHARGE

[illegible]

Appendix Table 1. (continued)

80

DECEMBER 9 - DECEMBER 10, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
101 ANCHOA MITCHILLI			1.00										
139 MICROPOGON UNDULATUS						1.00							
183 MICROPOGON UNDULATUS ANCHOA MITCHILLI							1.00			1.00		2.00 2.00	5.00 5.00
220 MICROPOGON UNDULATUS ANCHOA MITCHILLI						1.00	2.00			1.00		5.00	5.00 1.00
20 MICROPOGON UNDULATUS ANCHOA MITCHILLI				1.00	1.00	8.00	3.00	2.00		7.00 1.00	3.00	1.00	3.00 1.00
60 MICROPOGON UNDULATUS ANCHOA MITCHILLI SPECIMEN MANGLED			1.00			3.00 2.00	1.00 3.00				1.00	1.00	1.00

Appendix Table 1. (continued)

81

JANUARY 14 - JANUARY 15, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
107 MICROPOGON UNDULATUS ALOSA AESTIVALIS					1.00							1.00	
141 ALOSA AESTIVALIS MICROPOGON UNDULATUS		3.00			2.00					2.00 3.00			
183 ANGUILLA ROSTRATA MICROPOGON UNDULATUS ALOSA AESTIVALIS MENIDIA BERYLLINA			1.00	1.00			1.00	2.00	2.00	1.00 3.00		1.00 3.00	
221 MENIDIA BERYLLINA MICROPOGON UNDULATUS ALOSA AESTIVALIS ANGUILLA ROSTRATA		1.00			2.00		1.00 1.00	1.00		2.00		1.00 1.00	1.00 1.00
21 ALOSA AESTIVALIS MICROPOGON UNDULATUS ALOSA PSEUDOHARENGUS ANGUILLA ROSTRATA MENIDIA BERYLLINA		5.00	4.00				1.00 1.00 1.00	1.00		1.00 2.00	2.00 1.00	1.00 1.00	1.00 1.00
		3.00	1.00					1.00	1.00			1.00	

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SPECIES	STATION TIME	INTAKE						DISCHARGE							
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM			
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT		
	63														
ALOSA AESTIVALIS		1.00													
MICROPOGON UNDULATUS										2.00			1.00	1.00	
ANGUILLA ROSTRATA											1.00				

Appendix Table 1. (continued)

83

FEBRUARY 12 - FEBRUARY 13, 1976

SPECIES	STATION TIME	INTAKE				DISCHARGE							
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
103													
BREVOORTIA TYRANNUS			1.00								1.00		
MICROPOGON UNDULATUS				4.00									
ANCHOA MITCHILLI					1.00		1.00					1.00	2.00
140													
MICROPOGON UNDULATUS			1.00	1.00		1.00				1.00			
ALOSA AESTIVALIS		2.00	1.00	3.00	7.00						1.00		1.00
BREVOORTIA TYRANNUS		7.00	4.00	1.00	3.00								
ANCHOA MITCHILLI					1.00								
MENIDIA BERYLLINA		1.00											
180													
ANGUILLA ROSTRATA		1.00	2.00	1.00				2.00	1.00		1.00	1.00	
MICROPOGON UNDULATUS				1.00		2.00			1.00	1.00	2.00		
ALOSA AESTIVALIS				1.00				1.00		1.00		1.00	
BREVOORTIA TYRANNUS				1.00					1.00				1.00
ANCHOA MITCHILLI										1.00			
220													
MICROPOGON UNDULATUS			1.00	2.00	1.00		1.00			1.00			
ALOSA PSEUDOHARENGUS						1.00							
ALOSA AESTIVALIS			1.00	1.00					1.00		1.00		
BREVOORTIA TYRANNUS		8.00	1.00				1.00						
ANGUILLA ROSTRATA		4.00	2.00				1.00		1.00	2.00			
ANCHOA MITCHILLI				3.00								1.00	
NOTROPIS HUDSONIUS									1.00				

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[illegible]

Appendix Table 1. (continued)

85

MARCH 2 - MARCH 3, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
102													
MICROPOGON UNDULATUS			1.00										1.00
ALOSA AESTIVALIS										2.00	1.00		
BREVOORTIA TYRANNUS			1.00										
ANCHOA MITCHILLI		6.00		2.00	1.00			3.00	2.00	6.00	15.00	11.00	
MENIDIA BERYLLINA		1.00											
SPECIMEN MANGLED								1.00	1.00				
142													
ANCHOA MITCHILLI						26.00	15.00	1.00	1.00	3.00	2.00	15.00	6.00
BREVOORTIA TYRANNUS									1.00				
182													
ANCHOA MITCHILLI		9.00		5.00	12.00	11.00		2.00	8.00	4.00	4.00	13.00	
MICROPOGON UNDULATUS		6.00		14.00	13.00	9.00		5.00	2.00	4.00	11.00	3.00	6.00
ALOSA AESTIVALIS		1.00		1.00	4.00	4.00		2.00		2.00	1.00		
BREVOORTIA TYRANNUS		1.00											
ANGUILLA ROSTRATA				1.00								1.00	
224													
MICROPOGON UNDULATUS		2.00		5.00	4.00	3.00	5.00	2.00		2.00	4.00	1.00	5.00
ALOSA AESTIVALIS								3.00	8.00	1.00	1.00	2.00	
LEIOSTOMUS XANTHURUS				1.00									
ANGUILLA ROSTRATA			1.00					3.00	2.00				
ANCHOA MITCHILLI		5.00		18.00	22.00	1.00	4.00	3.00	4.00	13.00	6.00	24.00	35.00
MENIDIA BERYLLINA								1.00					
20													
ANGUILLA ROSTRATA		1.00					1.00			1.00			
MICROPOGON UNDULATUS				3.00	5.00	1.00	5.00	2.00	1.00	7.00	5.00	3.00	2.00
ALOSA PSEUDOHARENGUS						1.00							
ANCHOA MITCHILLI				6.00	6.00	18.00	15.00		3.00	9.00	11.00	8.00	7.00

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	59												
MICROPOGON UNDULATUS				17.00	6.00		3.00		2.00	6.00	5.00	1.00	2.00
ALOSA AESTIVALIS										1.00			
ANGUILLA ROSTRATA								2.00	1.00		1.00		
ANCHOA MITCHILLI				5.00	13.00	10.00	11.00		1.00	21.00	12.00	22.00	13.00

Appendix Table 1. (continued)

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MARCH 16 - MARCH 17, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	104												
MICROPOGON UNDULATUS				1.00		1.00							
LEIOSTOMUS XANTHURUS												1.00	
BREVOORTIA TYRANNUS				1.00		3.00	1.00			1.00		1.00	1.00
ANCHOA MITCHILLI												1.00	
	142												
MICROPOGON UNDULATUS				1.00							1.00		
BREVOORTIA TYRANNUS				3.00	1.00	4.00	4.00				2.00	3.00	1.00
ANCHOA MITCHILLI											1.00	1.00	1.00
	182												
LEIOSTOMUS XANTHURUS			1.00										
MICROPOGON UNDULATUS				1.00	1.00	1.00	7.00						
BREVOORTIA TYRANNUS			1.00	6.00	1.00		2.00						
ANCHOA MITCHILLI				1.00	1.00		3.00						
	222												
BREVOORTIA TYRANNUS		1.00	1.00		2.00	1.00							
MICROPOGON UNDULATUS				6.00	2.00	1.00	1.00						
LEIOSTOMUS XANTHURUS					2.00								
ANCHOA MITCHILLI				1.00		1.00							
	22												
MICROPOGON UNDULATUS				1.00	1.00			1.00		1.00	1.00	2.00	2.00
LEIOSTOMUS XANTHURUS						1.00				1.00			
BREVOORTIA TYRANNUS				2.00	1.00	2.00	6.00		1.00			1.00	1.00
ANGUILLA ROSTRATA								1.00					
ANCHOA MITCHILLI					2.00		1.00			5.00	1.00	7.00	1.00

Appendix Table 1. (continued)

[illegible]

Appendix Table 1. (continued)

89

APRIL 6 - APRIL 7, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	103												
MORONE SAXATILIS		5.00	9.00	4.00	6.00	1.00		2.00					
ALOSA PSEUDOHARENGUS				1.00									
MORONE AMERICANA		1.00	2.00	9.00	8.00			1.00					
LEIOSTOMUS XANTHURUS		1.00											
BREVOORTIA TYRANNUS		3.00	1.00		1.00						1.00	3.00	4.00
ANCHOA MITCHILLI											1.00		
UNIDENTIFIED		6.00											
	142												
MICROPOGON UNDULATUS							1.00						2.00
LEIOSTOMUS XANTHURUS												1.00	
BREVOORTIA TYRANNUS		1.00						3.00	1.00	4.00		7.00	3.00
ANCHOA MITCHILLI													1.00
	180												
MICROPOGON UNDULATUS				1.00				1.00					
LEIOSTOMUS XANTHURUS					1.00								
BREVOORTIA TYRANNUS						10.00	8.00		8.00	5.00		1.00	4.00
ANCHOA MITCHILLI						1.00			2.00	2.00		2.00	1.00
	219												
MICROPOGON UNDULATUS				2.00	1.00	2.00	6.00		3.00			2.00	1.00
MORONE SAXATILIS				1.00									
MORONE AMERICANA				5.00									
LEIOSTOMUS XANTHURUS				1.00		4.00	3.00		2.00	2.00		3.00	2.00
BREVOORTIA TYRANNUS				1.00		15.00	14.00	1.00	8.00	9.00		8.00	7.00
ANGUILLA ROSTRATA						1.00		1.00					1.00
ANCHOA MITCHILLI							2.00		1.00	2.00		1.00	1.00

Appendix Table 1. (continued)

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SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	17												
BREVOORTIA TYRANNUS			1.00	1.00		5.00	1.00	1.00		12.00	7.00	5.00	4.00
MICROPOGON UNDULATUS						1.00	3.00	1.00		8.00	6.00	4.00	1.00
LEIOSTOMUS XANTHURUS				1.00	1.00	2.00	1.00			3.00	5.00		
ANGUILLA ROSTRATA											1.00		1.00
ANCHOA MITCHILLI										1.00	1.00		3.00
	60												
ANGUILLA ROSTRATA		1.00											
MICROPOGON UNDULATUS				2.00	1.00		1.00	1.00			1.00	1.00	1.00
MORONE SAXATILIS					1.00							1.00	
LEIOSTOMUS XANTHURUS					1.00								
BREVOORTIA TYRANNUS				1.00	1.00		1.00				1.00	2.00	1.00
ANCHOA MITCHILLI								1.00					

91

INTAKE

DISCHARGE

[illegible]

Appendix Table 1. (continued)

[illegible]

93

93

93

94

[illegible]

Appendix Table 1. (continued)

95

APRIL 28 - APRIL 29, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	92												
BREVOORTIA TYRANNUS		1.00						1.00			1.00		
LEIOSTOMUS XANTHURUS												2.00	1.00
ANCHOA MITCHILLI										1.00	1.00		
GOBIOSOMA BOSCI								1.00					
MENIDIA MENIDIA													1.00
	129												
BREVOORTIA TYRANNUS								1.00				1.00	
GOBIOSOMA BOSCI						1.00							
	170												
DOROSOMA CEPEDIANUM			1.00										
BREVOORTIA TYRANNUS						1.00	2.00			2.00			
ANCHOA MITCHILLI								1.00		1.00			
GOBIOSOMA BOSCI			1.00										
	212												
MICROPOGON UNDULATUS						2.00							
LEIOSTOMUS XANTHURUS				1.00							1.00		
BREVOORTIA TYRANNUS							3.00	2.00					4.00
	11												
MENIDIA BERYLLINA			2.00	2.00			1.00	1.00					
MICROPOGON UNDULATUS							1.00				1.00	1.00	
LEIOSTOMUS XANTHURUS						2.00				1.00			
BREVOORTIA TYRANNUS						19.00	8.00	1.00		2.00		3.00	
ANCHOA MITCHILLI					1.00	1.00				2.00			
MENIDIA MENIDIA		2.00	1.00		2.00	2.00							

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[illegible]

Appendix Table 1. (continued)

97

MAY 5 - MAY 6, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
92													
BREVOORTIA TYRANNUS		2.00						1.00	2.00			2.00	
MICROPOGON UNDULATUS				1.00								1.00	
LEIOSTOMUS XANTHURUS								1.00					
ANGUILLA ROSTRATA								1.00					
ANCHOA MITCHILLI								1.00		1.00			
135													
ANCHOA MITCHILLI										1.00			
LEIOSTOMUS XANTHURUS													1.00
BREVOORTIA TYRANNUS				3.00							1.00	1.00	
MENIDIA BERYLLINA		2.00											
MENIDIA MENIDIA		1.00											
171													
MENIDIA MENIDIA		1.00						1.00					1.00
BREVOORTIA TYRANNUS												1.00	1.00
ANCHOA MITCHILLI										1.00		1.00	1.00
GOBIOSOMA BOSCI													
212													
LEIOSTOMUS XANTHURUS		1.00		1.00	1.00				1.00			1.00	1.00
MICROPOGON UNDULATUS										1.00			
BREVOORTIA TYRANNUS		1.00				2.00	1.00	20.00	4.00	12.00	5.00	7.00	6.00
ANGUILLA ROSTRATA			1.00						1.00				
ANCHOA MITCHILLI						1.00		4.00	1.00	1.00	7.00	1.00	5.00
ELOPS SAURUS								1.00					

Appendix Table 1. (continued)

98

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	13												
GOBIOSOMA BOSCI			1.00										
MICROPOGON UNDULATUS						1.00				2.00			1.00
MORONE SAXATILIS				1.00									
BREVOORTIA TYRANNUS					2.00		2.00		1.00	3.00	2.00	1.00	5.00
ANCHOA MITCHILLI											3.00		
ELOPS SAURUS								1.00					
DOROSOMA PETENENSE													1.00
	53												
MENIDIA BERYLLINA													1.00
DOROSOMA PETENENSE									1.00				

MAY 11 - MAY 12, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	95												
GOBIOSOMA BOSCI							1.00						
MEMBRAS MARTINICA		3.00											
MENIDIA BERYLLINA		6.00	1.00				1.00						
MENIDIA MENIDIA		49.00	2.00	8.00	4.00	1.00	1.00		1.00				
	133												
ANCHOA MITCHILLI													1.00
MENIDIA MENIDIA											2.00		
	170												
ANCHOA MITCHILLI													1.00
MICROPOGON UNDULATUS													1.00
LEIOSTOMUS XANTHURUS					1.00								
BREVOORTIA TYRANNUS							1.00		1.00			1.00	1.00
GOBIOSOMA BOSCI			1.00	2.00	1.00				2.00		2.00		
MENIDIA MENIDIA				1.00	1.00			1.00	1.00			1.00	1.00
	210												
ANCHOA MITCHILLI											1.00	1.00	
BREVOORTIA TYRANNUS										3.00		2.00	1.00
ANGUILLA ROSTRATA											1.00		
GOBIOSOMA BOSCI				2.00		1.00							
MENIDIA BERYLLINA		1.00		2.00	1.00	1.00	2.00			1.00		2.00	
MENIDIA MENIDIA		2.00	2.00							3.00	1.00	3.00	
ELOPS SAURUS						1.00							

100

[illegible]

MAY 17 - MAY 18, 1976

[illegible]

Appendix Table 1. (continued)

102

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	11												
ANGUILLA ROSTRATA		1.00	1.00										
MICROPOGON UNDULATUS					1.00								
LEIOSTOMUS XANTHURUS										1.00			
BREVOORTIA TYRANNUS								2.00		2.00		1.00	
ANCHOA MITCHILLI				1.00		1.00	2.00			1.00	2.00	1.00	
GOBIOSOMA BOSCI				3.00			1.00	2.00				1.00	1.00
MENIDIA BERYLLINA			1.00	2.00			2.00				1.00		1.00
MENIDIA MENIDIA		3.00								1.00			
	52												
ANCHOA MITCHILLI		1.00			1.00								
GOBIOSOMA BOSCI					1.00	2.00	2.00				1.00	1.00	

MAY 25 - MAY 26, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
91 SYNGNATHUS FUSCUS GOBIOSOMA BOSCI						1.00 1.00		2.00		1.00	2.00	2.00	3.00
131 BREVDORTIA TYRANNUS GOBIOSOMA BOSCI MENIDIA MENIDIA		1.00			1.00		2.00	1.00				1.00	2.00
169 GOBIOSOMA BOSCI MEMBRAS MARTINICA MENIDIA MENIDIA MENIDIA SP.			2.00 1.00	5.00	7.00	1.00						3.00	3.00
210 ANCHOA MITCHILLI GOBIOSOMA BOSCI MENIDIA BERYLLINA MENIDIA MENIDIA MENIDIA SP. ELOPS SAURUS				1.00 16.00 1.00 2.00	7.00 1.00	1.00	5.00	3.00 1.00	12.00 1.00	3.00 1.00	4.00 1.00	1.00	5.00 1.00 1.00

Appendix Table 1. (continued)

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SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	12												
BREVOORTIA TYRANNUS			1.00						1.00				
ANCHOA MITCHILLI										1.00	1.00		
SYNGNATHUS FUSCUS											1.00		
GOBIOSOMA BOSCI		1.00	1.00	5.00	4.00	2.00	4.00	3.00		2.00	1.00	3.00	
MENIDIA BERYLLINA						1.00	2.00					1.00	
MENIDIA MENIDIA		2.00		3.00					1.00	1.00			
MENIDIA SP.								1.00					
ELOPS SAURUS			1.00				1.00	1.00	2.00	1.00		1.00	
	53												
GOBIOSOMA BOSCI			1.00		1.00					4.00		1.00	2.00

JUNE 3 - JUNE 4, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	90												
GOBIOSOMA BOSCI		2.00		15.00	7.00	4.00	5.00	1.00		5.00	3.00	9.00	4.00
MENIDIA BERYLLINA			1.00										
MENIDIA MENIDIA		7.00	3.00	2.00		1.00				1.00			2.00
MENIDIA SP.			2.00										
	133												
GOBIOSOMA BOSCI							1.00			2.00		1.00	
MENIDIA MENIDIA		1.00	8.00		1.00		1.00						
	170												
ANCHOA MITCHILLI										1.00			
GOBIOSOMA BOSCI					1.00		2.00	3.00		3.00	1.00	10.00	2.00
MENIDIA BERYLLINA		1.00											
	211												
BREVOORTIA TYRANNUS										1.00			
GOBIOSOMA BOSCI		1.00			1.00		2.00	1.00	2.00	3.00	6.00	2.00	2.00
MENIDIA BERYLLINA				1.00	5.00	2.00	2.00	1.00		2.00	1.00	1.00	
MENIDIA MENIDIA				1.00	5.00		1.00		1.00	1.00	1.00		
	13												
ANCHOA MITCHILLI									1.00				
GOBIOSOMA BOSCI		3.00		2.00		1.00	3.00	2.00	3.00	3.00	2.00	3.00	1.00
CHASMODES BOSQUIANUS				1.00									
MENIDIA BERYLLINA								1.00					
MENIDIA MENIDIA					1.00						1.00		
	51												
GOBIOSOMA BOSCI							1.00					1.00	

Appendix Table 1. (continued)

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JUNE 28 - JUNE 29, 1976

SPECIES	STATION TIME	INTAKE				DISCHARGE							
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
94													
ANCHOA MITCHILLI		2.00						2.00		4.00		5.00	1.00
LEIOSTOMUS XANTHURUS				1.00									
GOBIOSOMA BOSCI		1.00		34.00	18.00	6.00	4.00	41.00	13.00	62.00	34.00	67.00	42.00
MENIDIA BERYLLINA			2.00						1.00				
MENIDIA MENIDIA		9.00											1.00
132													
GOBIOSOMA BOSCI			4.00	8.00	2.00	68.00	88.00	23.00	33.00	41.00	63.00	54.00	53.00
ANCHOA MITCHILLI				1.00		2.00	3.00						2.00
MEMBRAS MARTINICA				1.00									
MENIDIA BERYLLINA				1.00		11.00	2.00						
MENIDIA MENIDIA						2.00							
171													
ANCHOA MITCHILLI		1.00		5.00	10.00	3.00	6.00		2.00	1.00		5.00	5.00
DOROSOMA CEPEDIANUM								1.00					
GOBIOSOMA BOSCI				173.00	250.00	216.00	229.00	113.00	107.00	174.00	190.00	162.00	278.00
MENIDIA BERYLLINA			13.00										
MENIDIA MENIDIA		1.00			1.00					1.00	1.00		
DOROSOMA PETENENSE										1.00			
219													
LUCANIA PARVA			1.00										
ANGUILLA ROSTRATA													1.00
ANCHOA MITCHILLI				6.00	11.00	8.00	7.00	1.00	4.00	1.00	5.00	4.00	1.00
GOBIOSOMA BOSCI		4.00	10.00	36.00	41.00	62.00	53.00	29.00	9.00	20.00	50.00	60.00	54.00
MEMBRAS MARTINICA								1.00					
MENIDIA BERYLLINA					1.00	1.00				1.00			

Appendix Table 1. (continued)

[illegible]

Appendix Table 2. Species and calculated number of fish per 100m³ captured during 24-hour plant entrainment stations at VEPCO Surry Nuclear Power Station from April, 1975 through June, 1976 (Station time expressed as hour and tenths, EST).

APRIL 22 - APRIL 23, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
93													
BREVOORTIA TYRANNUS		60.87	145.30	26.79	21.58	6.94			7.11	21.13	17.06	8.75	14.89
LEIOSTOMUS XANTHURUS				2.98									
ANGUILLA ROSTRATA													2.48
ANCHOA MITCHILLI		8.70	17.09							2.35	2.13		
MENIDIA BERYLLINA												2.92	
UNIDENTIFIED									2.37				
132													
BREVOORTIA TYRANNUS		46.38	97.98	11.36	10.77	3.19		4.65	8.47	14.96	10.99	27.30	16.95
MICROPOGON UNDULATUS				2.27	1.54								
LEIOSTOMUS XANTHURUS					1.54	6.39				2.49	4.40		2.82
ANCHOA MITCHILLI		434.78	374.64	34.09	4.62	6.39	9.49		2.12	2.49	4.40		2.82
MENIDIA BERYLLINA				2.27									
UNIDENTIFIED		2.90											
168													
BREVOORTIA TYRANNUS		83.33	33.71	7.97	25.00	14.08	25.89	11.27	2.38	22.10	14.67	33.24	31.75
MICROPOGON UNDULATUS					3.57		3.24						
LEIOSTOMUS XANTHURUS				23.90	7.14	3.52	6.47			13.81	12.22		2.27
ANGUILLA ROSTRATA						3.52							
ANCHOA MITCHILLI						3.52			2.38		2.44	5.54	11.34
MENIDIA BERYLLINA									2.38				
UNIDENTIFIED											2.44		
210													
LEIOSTOMUS XANTHURUS		34.72	5.08	8.26	6.76	6.25	5.46			14.63	6.13	5.75	6.79
MICROPOGON UNDULATUS				4.13	10.14						2.04		
BREVOORTIA TYRANNUS		20.83	20.30	20.66	6.76	12.50	5.46	4.96		13.01	10.22	2.87	6.79
ANGUILLA ROSTRATA		27.78	10.15					2.48	6.80	3.25			2.26
ANCHOA MITCHILLI				4.13	3.38			4.96		8.13	12.27	8.62	9.05
MENIDIA BERYLLINA								2.48	4.54				

[illegible]

MAY 1 - MAY 2, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	91												
BREVOORTIA TYRANNUS			5.13		3.72							3.56	3.19
CYPRINUS CARPIO												3.08	
ANCHOA MITCHILLI												3.08	3.19
MENIDIA MENIDIA			5.13										
	129												
BREVOORTIA TYRANNUS					11.49			4.29	7.02	3.61		7.25	7.72
ANCHOA MITCHILLI										3.61			3.86
UNIDENTIFIED					11.49								
	169												
NOTROPIS HUDSONIUS			32.26										
LEIOSTOMUS XANTHURUS													3.30
BREVOORTIA TYRANNUS						16.04	5.85			3.29		16.08	6.60
CYPRINUS CARPIO												3.22	
ANCHOA MITCHILLI													3.30
MENIDIA MENIDIA			64.52										
	210												
MICROPOGON UNDULATUS					3.10							3.15	
LEIOSTOMUS XANTHURUS				13.51	9.29	12.46	16.89		18.18	19.05			10.60
BREVOORTIA TYRANNUS				16.89	3.10		10.14			3.17			3.53
ANCHOA MITCHILLI						3.12	6.76			3.17		3.15	3.53

Appendix Table 2. (continued)

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	10												
LEIOSTOMUS XANTHURUS		9.09		99.38	80.65	54.05	142.86			14.60	47.27	3.47	7.12
MICROPOGON UNDULATUS					16.13	27.03					3.64		
BREVOORTIA TYRANNUS				12.42						10.95	14.55	3.47	
ANGUILLA ROSTRATA											3.64		
ANCHOA MITCHILLI										3.65			
UNIDENTIFIED								4.00		3.65			
	50												
LEIOSTOMUS XANTHURUS											6.69	19.14	11.24
BREVOORTIA TYRANNUS					6.37	12.74	12.50					14.35	3.75
UNIDENTIFIED					6.37								

MAY 7 - MAY 8, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	88												
DOROSOMA SPP.			2.57										
DOROSOMA CEPEDIANUM							5.13						
CYPRINUS CARPIO				9.17									
ANCHOA MITCHILLI												3.70	
UNIDENTIFIED				9.17			5.13					7.41	
	131												
DOROSOMA SPP.								3.70					
UNIDENTIFIED				11.83									
	169												
DOROSOMA CEPEDIANUM		24.39											
ALOSA PSEUDOHARENGUS										3.97			
BREVOORTIA TYRANNUS												2.02	3.98
NOTROPIS HUDSONIUS			11.90										
DOROSOMA SPP.			5.95										
UNIDENTIFIED										3.97			
	210												
ANGUILLA ROSTRATA			8.62										
MICROPOGON UNDULATUS						18.52							
LEIOSTOMUS XANTHURUS				10.99									
BREVOORTIA TYRANNUS										15.09	18.32		3.75
ANCHOA MITCHILLI										10.99	3.98		3.75
MENIDIA BERYLLINA										3.66			
DOROSOMA SPP.				10.99						3.77			
UNIDENTIFIED					6.62								
SPECIMEN MANGLED									4.05				

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SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	10												
DOROSOMA CEPEDIANUM		5.68											
MICROPOGON UNDULATUS				3.53	3.46								
LEIOSTOMUS XANTHURUS				7.07	6.92	8.06				12.94	9.49		6.39
BREVOORTIA TYRANNUS				3.53	3.46					6.47		3.34	6.39
CYPRINUS CARPIO											3.16		
ANGUILLA ROSTRATA									3.56				
ANCHOA MITCHILLI	5.68			3.53							3.16		3.19
NOTROPIS HUDSONIUS						4.03							
MENIDIA BERYLLINA	28.41			3.53					3.56				
DOROSOMA SPP.							3.41					3.34	
UNIDENTIFIED				7.07									
	50												
LEIOSTOMUS XANTHURUS			4.55			6.85							
CYPRINUS CARPIO											3.42	3.72	
NOTROPIS HUDSONIUS										6.87			
GOBIOSOMA BOSCI							4.57						
MENIDIA BERYLLINA			4.55										
DOROSOMA PETENENSE	41.45	36.36									3.42		
DOROSOMA SPP.													
UNIDENTIFIED				10.64					3.77	3.44			3.62

MAY 14 - MAY 15, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	89												
CYPRINUS CARPIO					4.24		3.51		3.22				
LEIOSTOMUS XANTHURUS				3.52									
ANCHOA MITCHILLI												2.54	
NOTROPIS HUDSONIUS					8.47								
MENIDIA BERYLLINA								3.17					
DOROSOMA PETENENSE		10.99								5.42	5.46		7.61
UNIDENTIFIED											2.73		
	130												
DOROSOMA PETENENSE		89.66						3.31		5.24			
ANCHOA MITCHILLI													3.23
NOTROPIS HUDSONIUS								3.31					
GOBIOSOMA BOSCI					8.77								
UNIDENTIFIED				17.54	8.55					2.62			
	169												
CYPRINUS CARPIO		4.27											2.79
BREVOORTIA TYRANNUS									2.99				
ANCHOA MITCHILLI												2.71	
NOTROPIS HUDSONIUS				3.95	3.53							2.71	
MENIDIA BERYLLINA			3.75										
DOROSOMA PETENENSE		273.50	202.25		3.53					2.70	2.71	8.36	
UNIDENTIFIED		4.27		19.76	17.67			2.99				2.79	

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
211													
LEIOSTOMUS XANTHURUS			7.04	25.64	22.47	5.29	11.36		6.33	5.12	2.60	12.01	8.82
MICROPOGON UNDULATUS				25.64									
BREVOORTIA TYRANNUS								3.16					2.94
CYPRINUS CARPIO			7.04							2.56		6.01	2.94
ANGUILLA ROSTRATA	7.19												
ANCHOA MITCHILLI											2.60		
NOTROPIS HUDSONIUS	100.72	21.13			16.85							3.00	2.94
GOBIOSOMA BOSCI								15.82	9.49	10.23			
MEMBRAS MARTINICA							5.68						
MENIDIA BERYLLINA			7.04										
DOROSOMA PETENENSE			7.04									3.00	
UNIDENTIFIED	43.17	70.42		34.19	39.33			3.16	3.16	7.67	2.60	15.02	8.82
11													
NOTROPIS HUDSONIUS	13.42			6.71									
MICROPOGON UNDULATUS				6.71									
LEIOSTOMUS XANTHURUS				33.56	4.98		6.17		3.29	18.35		5.15	3.13
ANGUILLA ROSTRATA									3.29				
ANCHOA MITCHILLI											3.04		
MENIDIA BERYLLINA	13.42				4.98								
DOROSOMA PETENENSE	6.71												9.38
50													
NOTROPIS HUDSONIUS			4.24										
MICROPOGON UNDULATUS										2.89			
LEIOSTOMUS XANTHURUS								2.90		2.89		2.75	
BREVOORTIA TYRANNUS									2.91				
CYPRINUS CARPIO							8.51	2.90					
GOBIOSOMA BOSCI											2.88		
DOROSOMA PETENENSE	3.52				3.62		8.51			2.89			2.81
UNIDENTIFIED					3.62	10.20	8.51				2.88	2.75	5.62

Appendix Table 2. (continued)

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MAY 22 - MAY 23, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	88												
LEIOSTOMUS XANTHURUS							7.09						
ICTALURUS PUNCTATUS													4.42
MENIDIA BERYLLINA								5.92					
MENIDIA MENIDIA								5.92					
DOROSOMA PETENENSE					7.58								
	129												
SPECIMEN MANGLED						7.52							
DOROSOMA PETENENSE		54.05	56.00	38.63	18.32	4.41		5.08	4.33	7.04	8.81	4.17	8.73
LEIOSTOMUS XANTHURUS						4.41			4.33				
GOBIOSOMA BOSCI				4.29			4.08						4.37
MENIDIA BERYLLINA				4.29									
MENIDIA MENIDIA									4.33			4.17	4.37
DOROSOMA SPP.				4.29									
	170												
LEIOSTOMUS XANTHURUS			10.75			21.43	5.78			5.38	5.21		
CYPRINUS CARPIO							5.78			5.38			
ANGUILLA ROSTRATA							5.78						
GOBIOSOMA BOSCI													9.71
MENIDIA MENIDIA				9.26									
	210												
MICROPOGON UNDULATUS							6.76						
LEIOSTOMUS XANTHURUS				15.27		47.17	13.51		6.17				
GOBIOSOMA BOSCI						9.43							
MEMBRAS MARTINICA											5.35		
MENIDIA MENIDIA				7.63		18.87							20.69
DOROSOMA PETENENSE					6.62								
SPECIMEN MANGLED								6.17					

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	10												
BREVOORTIA TYRANNUS			5.29										
LEIOSTOMUS XANTHURUS				11.11	4.98	10.42	14.93			4.20	8.51		5.68
DOROSOMA CEPEDIANUM		7.14		5.56									
CYPRINUS CARPIO											4.26		
FUNDULUS DIAPHANUS								4.63					
FUNDULUS MAJALIS				5.56									
GOBIOSOMA BOSCI					4.98			4.63					
MENIDIA MENIDIA	14.29							9.26	4.20				
MENIDIA SP.							7.46					6.02	
DOROSOMA PETENENSE					4.98		7.46	4.63					
DOROSOMA SPP.					4.98							6.02	
	48												
LEIOSTOMUS XANTHURUS					8.00			5.49	4.27			5.05	
DOROSOMA CEPEDIANUM									4.27	4.24			5.08
CYPRINUS CARPIO										4.24			
FUNDULUS HETEROCLITUS										4.24			
LEPOMIS MACROCHIRUS									4.27				

MAY 29 - MAY 30, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	90												
GOBIOSOMA BOSCI												6.17	
	129												
MENIDIA BERYLLINA		52.63											
ANCHOA MITCHILLI										6.21			
MEMBRAS MARTINICA							6.94						
DOROSOMA PETENENSE												5.81	
	170												
ANCHOA MITCHILLI		20.00											
MICROPOGON UNDULATUS						4.37							
GOBIOSOMA BOSCI				9.01	21.13	8.73	4.31	4.85		9.85		9.76	9.62 14.29
MEMBRAS MARTINICA				9.01									
MENIDIA BERYLLINA		30.00	6.13	9.01	7.04		4.31						4.81
MENIDIA MENIDIA		30.00				17.47	8.62						
DOROSOMA PETENENSE					28.17	4.37							
DOROSOMA SPP.		80.00	12.27				4.31						
SPECIMEN MANGLED		20.00											
	210												
LEIOSTOMUS XANTHURUS										5.85			
ICTALURUS PUNCTATUS								5.85		5.85	16.85	9.52	14.71
CYPRINUS CARPIO													7.35
GOBIOSOMA BOSCI												9.52	
MENIDIA MENIDIA								5.88	5.85				
DOROSOMA SPP.									5.85			9.52	

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	10												
ANGUILLA ROSTRATA		8.93				10.00				5.71	5.71	7.35	
LEIOSTOMUS XANTHURUS				13.99						5.71			
BREVOORTIA TYRANNUS						10.00							
FUNDULUS DIAPHANUS													
FUNDULUS HETEROCLITUS											5.71		
GOBIOSOMA BOSCI				27.97	6.67			5.38		5.71		7.35	36.76
MENIDIA BERYLLINA					6.67								
MENIDIA MENIDIA				13.99			8.62						
DOROSOMA SPP.								5.38					
SPECIMEN MANGLED					20.00								
	51												
GOBIOSOMA BOSCI		27.40		28.57	13.70	10.81	21.93	5.46		7.94	12.66		
MEMBRAS MARTINICA						5.41							
MENIDIA BERYLLINA					6.85								
MENIDIA MENIDIA							17.54	5.46					
ALOSA SP.					6.85								
DOROSOMA PETENENSE						5.41			5.24				

JUNE 4 - JUNE 5, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
91													
ANCHOA MITCHILLI		29.41		38.22	19.05	81.08	161.29		6.17	14.42	14.93	28.04	33.82
GOBIOSOMA BOSCI		14.71		121.02	142.86	486.49	806.45	11.98	6.17	96.15	94.53	102.80	125.60
DOROSOMA PETENENSE				6.37									
SPECIMEN MANGLED										4.81	4.98		
130													
GOBIOSOMA BOSCI			200.00	22.73	133.33		25.64	26.85	12.90	65.33	35.53	45.92	66.33
DOROSOMA CEPEDIANUM											5.08		
CYPRINUS CARPIO										5.03			
ANCHOA MITCHILLI								6.71	6.45	10.05	5.08	5.10	5.10
MEMBRAS MARTINICA		142.86	200.00										
DOROSOMA PETENENSE										5.03			
169													
GOBIOSOMA BOSCI		16.39	7.75	105.26	22.99	3.94	8.73	47.62	42.94	78.13	63.83	198.47	251.66
ANCHOA MITCHILLI				4.78			4.37	6.80	6.13	23.44		53.44	33.11
MEMBRAS MARTINICA		32.79											
DOROSOMA PETENENSE			7.75							7.81			
211													
ANCHOA MITCHILLI		8.20	13.79	14.63	44.64	65.66	55.00	19.32	29.70	44.44	45.25	64.94	76.60
ALOSA AESTIVALIS						5.05							
LEIOSTOMUS XANTHURUS												4.33	4.26
SYNGNATHUS FUSCUS					4.46	10.10							
GOBIOSOMA BOSCI		163.93	227.59	185.37	178.57	196.97	300.00	48.31	74.26	271.11	266.97	441.56	485.11
MEMBRAS MARTINICA						5.05							
MENIDIA BERYLLINA			6.90	4.88									
MENIDIA MENIDIA		16.39	68.97	19.51	8.93		10.00	4.83	4.95		13.57	12.99	17.02
DOROSOMA PETENENSE										4.44		4.33	4.26

[illegible]

JUNE 11 - JUNE 12, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
88													
ANCHOA MITCHILLI		23.26	12.74	99.10	7.30	42.11	8.70	50.58	15.81	128.68	152.42	146.92	185.19
LEIOSTOMUS XANTHURUS					7.30								
SYNGNATHUS FUSCUS				9.01	7.30				3.95	3.68			
GOBIOSOMA BOSCI		7.75		891.89	430.66	31.58	8.70	7.78	3.95	194.85	122.68	327.01	245.37
MENIDIA MENIDIA		93.02	25.48	9.01							3.72		
SPECIMEN MANGLED			6.37										
128													
ANCHOA MITCHILLI		28.57		83.33		83.33	129.31	34.84	13.84	254.55	193.43	421.52	333.33
GOBIOSOMA BOSCI						194.44	163.79		24.22	145.45	127.74	242.15	268.40
MEMBRAS MARTINICA				13.89								8.97	
MENIDIA BERYLLINA					11.36	27.78	8.62		6.92				
MENIDIA MENIDIA		571.43	471.43										
UNIDENTIFIED								3.48					
170													
ANCHOA MITCHILLI		114.29		130.43	121.21	1526.01	1101.21	51.02	70.67	103.56	167.79	120.63	126.67
ALOSA AESTIVALIS													3.33
LEIOSTOMUS XANTHURUS						5.78							
ICTALURUS PUNCTATUS													3.33
GOBIOSOMA BOSCI		28.57		130.43	151.52	179.19	125.51	17.01	3.53	32.36	20.13	41.27	30.00
MEMBRAS MARTINICA			35.71										
MENIDIA BERYLLINA							4.05			9.71	3.36		3.33
MENIDIA MENIDIA		114.29		14.49	10.10								

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
190													
ANGUILLA ROSTRATA			7.58	9.35								3.37	
ALOSA AESTIVALIS													4.08
LEIOSTOMUS XANTHURUS					9.43							3.37	
BREVOORTIA TYRANNUS									3.86	3.29			
ANCHOA MITCHILLI		7.69	7.58	242.99	330.19	225.00	246.15	15.33	19.31	39.47	40.40	81.63	65.31
SYNGNATHUS FUSCUS					9.43								
GOBIOSOMA BOSCI			22.73	233.64	235.85	225.00	153.85	7.66	3.86	32.89	47.14	126.53	138.78
MENIDIA BERYLLINA													4.08
MENIDIA MENIDIA				9.35		25.00			7.72	3.29	3.37		
SPECIMEN MANGLED												16.33	
13													
LEIOSTOMUS XANTHURUS			12.20									3.44	
ALOSA AESTIVALIS												3.44	
ANCHOA MITCHILLI		117.65	109.76	413.17	331.52	747.60	799.39	157.68	65.04	158.08	114.86	233.05	235.81
SYNGNATHUS FUSCUS				5.99		6.39		4.15		3.44	3.38		
GOBIOSOMA BOSCI		235.29	158.54	550.90	559.78	373.80	331.31	99.59	52.85	178.69	195.95	241.53	288.21
MENIDIA BERYLLINA							3.04						4.37
MENIDIA MENIDIA				5.99			3.04	24.90	4.07				
52													
ANCHOA MITCHILLI		151.32	88.05	112.68	87.34	188.07	105.26	26.92	19.61	50.00	30.65	58.82	66.93
MICROPOGON UNDULATUS						4.59					3.83		
LEIOSTOMUS XANTHURUS						9.17							
SYNGNATHUS FUSCUS													3.94
GOBIOSOMA BOSCI		72.37	50.31	84.51	34.93	77.98	112.78	15.38	19.61	61.54	68.97	58.82	43.31
MENIDIA BERYLLINA		6.58						3.85					
MENIDIA MENIDIA											3.83		

INTAKE

DISCHARGE

[illegible]

Appendix Table 2. (continued)

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	49												
ANCHOA MITCHILLI		30.30		111.11	58.82	1103.45	309.28	14.88	50.60	45.87	94.80	263.16	258.06
SYNGNATHUS FUSCUS					58.82					3.06			
GOBIOSOMA BOSCI		60.61		138.89	588.24	689.66	268.04	17.86	29.76	70.34	61.16	860.68	990.32
MENIDIA MENIDIA							10.31						

JUNE 24 - JUNE 25, 1975

[illegible]

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	13												
ANCHOA MITCHILLI		7.46	162.16	138.76	272.73	178.22	189.19	23.02	18.13	58.46	114.20	43.80	52.98
GOBIOSOMA BOSCI		22.39	297.30	540.67	1007.58	1267.33	1450.45	40.92	121.76	396.92	404.32	532.85	529.80
MEMBRAS MARTINICA							9.01						
MENIDIA BERYLLINA			27.03										
MENIDIA MENIDIA		7.46		4.78	7.58					9.23	6.17	3.65	
	49												
ANCHOA MITCHILLI		40.82	14.60	305.92	301.95	237.29	115.11	8.52	5.73	31.25	36.70	61.89	38.19
GOBIOSOMA BOSCI		81.63	43.80	371.71	399.35	364.41	237.41	22.73	14.33	110.80	76.45	172.64	69.44
MEMBRAS MARTINICA								2.84					
SPECIMEN MANGLED					3.25	8.47						6.51	

JULY 9 - JULY 10, 1975

[illegible]

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	50												
ANCHOA MITCHILLI		74.07		130.43	121.21	258.06	142.86	4.67	14.93	46.95	24.04	76.50	131.87
GOBIOSOMA BOSCI		518.52		173.91	242.42	177.42	285.71		14.93	51.64	72.12	125.68	126.37
SPECIMEN MANGLED						16.13							

JULY 29 - JULY 30, 1975

[illegible]

Appendix Table 2. (continued)

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	50												
ANCHOA MITCHILLI		29.27	25.38	544.87	374.25	290.57	348.48	46.63	14.22	257.67	210.21	130.91	122.81
MICROPOGON UNDULATUS				3.21						3.07			
GOBIOSOMA BOSCI			10.15	342.95	404.19	316.98	359.85	51.81	63.98	374.23	393.39	174.55	236.84
SPECIMEN MANGLED									2.37				

AUGUST 13 - AUGUST 14, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
92													
ANCHOA MITCHILLI		24.39	31.43	101.37	109.29	65.00	90.91	16.44	14.45	9.59	20.78	42.62	31.25
GOBIOSOMA BOSCI				52.05	73.77	235.00	292.21	24.66	17.34	38.37	25.97	104.92	97.22
MEMBRAS MARTINICA							6.49						
MENIDIA BERYLLINA		38.33		2.74	2.73	10.00							
MENIDIA MENIDIA									2.89				
135													
ANCHOA MITCHILLI				56.96	16.48		125.00	15.43	27.44	48.34	52.13	23.49	63.12
GOBIOSOMA BOSCI				126.58	49.45	29.41	187.50	30.86	15.24	66.47	75.83	63.76	89.70
SPECIMEN MANGLED					10.99								
170													
ANCHOA MITCHILLI			27.45	71.23	76.27	151.52	245.90	51.14	36.47	31.83	82.87	209.74	145.04
GOBIOSOMA BOSCI	9.05	43.14	85.47	81.92	151.52	131.15		96.59	75.99	106.10	69.06	176.03	160.31
MICROPOGON UNDULATUS									3.04				
SPECIMEN MANGLED												3.75	
210													
ANCHOA MITCHILLI	7.09			120.94			134.62	49.56	47.48	49.59	70.38	112.45	82.35
MICROPOGON UNDULATUS				5.90			5.49	5.83	5.93	16.53	5.87	20.08	11.76
CYNOSCION REGALIS								2.92					
GOBIOSOMA BOSCI				135.69			104.40	32.07	59.35	41.32	35.19	92.37	94.12
TRINECTES MACULATUS											2.93		
SPECIMEN MANGLED								2.92		2.75			
11													
ANCHOA MITCHILLI	11.24			224.49	348.96	1928.57	2750.00	66.18	83.97	71.84	93.57	98.68	115.11
MICROPOGON UNDULATUS							83.33	3.68	3.82	2.87		3.29	
ALOSA AESTIVALIS													3.60
GOBIOSOMA BOSCI				153.06	229.17	2285.71	3250.00	154.41	114.50	146.55	152.05	375.00	424.46

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	50												
ANCHOA MITCHILLI		36.81	833.33	117.65	72.20	104.27	119.82	45.18	56.43	42.49	47.48	101.91	72.37
MICROPOGON UNDULATUS								3.01	3.13	2.83			
SYNGNATHUS FUSCUS								6.02					
GOBIOSOMA BOSCI		12.27	250.00	212.42	202.17	104.27	124.42	48.19	81.50	62.32	47.48	101.91	115.13
MENIDIA BERYLLINA												3.18	
SPECIMEN MANGLED										2.83			

SEPTEMBER 3 - SEPTEMBER 4, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	92												
ANCHOA MITCHILLI						151.52	68.97	3.14	3.11	3.01	2.92	33.33	8.20
GOBIOSOMA BOSCI						30.30	17.24	6.29	3.11		2.92	20.83	8.20
MENIDIA MENIDIA													4.10
SPECIMEN MANGLED											2.92		
	131												
ANCHOA MITCHILLI		30.82	17.80	3.76	9.87			3.02		2.88	1.44	13.61	20.98
SYNGNATHUS FUSCUS				3.76									3.50
GOBIOSOMA BOSCI			2.97	7.52		21.28		6.04	8.85			6.80	13.99
MENIDIA MENIDIA				7.52		42.55	17.86	3.02					
	170												
ANCHOA MITCHILLI		64.17	33.65	9.43		58.82	19.61	6.08	12.54	24.26	20.07	18.99	14.53
GOBIOSOMA BOSCI				4.72	4.90			6.08		2.70	3.34	15.82	2.42
MENIDIA MENIDIA						19.61							
	210												
MENIDIA SP.		6.54											
MICROPOGON UNDULATUS									2.92		3.09	2.97	
ANGUILLA ROSTRATA													2.81
ANCHOA MITCHILLI				241.61	111.70	142.86	52.63	21.54	43.73	41.94	55.56	62.31	58.99
GOBIOSOMA BOSCI				60.40	21.28	171.43	52.63	9.23	2.92	12.90	6.17	35.61	36.52
MEMBRAS MARTINICA					5.32		26.32						
MENIDIA BERYLLINA									2.92				2.81
MENIDIA MENIDIA												2.97	
SPECIMEN MANGLED										3.23			

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	12												
ANCHOA MITCHILLI		10.75	13.57	44.03	63.25	92.59	25.38	19.83	19.02	30.90	18.92	57.63	57.88
MICROPOGON UNDULATUS													3.22
ALOSA AESTIVALIS										2.81	2.70		
NOTROPIS BIFRENATUS			4.52										
GOBIOSOMA BOSCI				6.29	3.01	11.11	2.54	2.83	2.72	5.62	5.41	3.39	12.86
MENIDIA BERYLLINA										5.62		3.39	
MENIDIA MENIDIA					3.01	3.70							
TRINECTES MACULATUS				3.14						2.81			
	51												
MENIDIA BERYLLINA		4.90											
ANCHOA MITCHILLI				14.71	21.55	188.89	80.00	16.61	9.62	15.67	33.43	52.17	34.19
GOBIOSOMA BOSCI				19.61	8.62	44.44	24.00	6.64				39.13	12.82

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	49												
MENIDIA BERYLLINA		3.68											
MICROPOGON UNDULATUS				33.92	24.42	25.53	17.02			79.81	178.40	95.24	126.98
ALOSA AESTIVALIS				1.36			4.26	8.55					3.97
ETHEOSTOMA OLMSTEDI										4.69			
ANCHOA MITCHILLI				10.85	14.93	4.26	4.26			14.08	14.08	3.97	19.84
GOBIOSOMA BOSCI					1.36							3.97	

NOVEMBER 13 - NOVEMBER 14, 1975

[illegible]

DECEMBER 9 - DECEMBER 10, 1975

SPECIES	STATION TIME	INTAKE				DISCHARGE							
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
101 ANCHOA MITCHILLI			200.00										
139 MICROPOGON UNDULATUS						4.61							
183 MICROPOGON UNDULATUS ANCHOA MITCHILLI							4.74			3.61		6.97 6.97	17.42 17.42
220 MICROPOGON UNDULATUS ANCHOA MITCHILLI						13.89	27.78			2.84		13.85	13.85 2.77
20 MICROPOGON UNDULATUS ANCHOA MITCHILLI				4.72	4.72	21.56	8.09	6.56		26.92 3.85	11.54	3.07	9.20 3.07
60 MICROPOGON UNDULATUS ANCHOA MITCHILLI SPECIMEN MANGLED			9.52			11.45 7.63	3.82 11.45					2.90	2.90
										3.08			

JANUARY 14 - JANUARY 15, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
107 MICROPOGON UNDULATUS ALOSA AESTIVALIS					3.95							2.93	
141 ALOSA AESTIVALIS MICROPOGON UNDULATUS		10.14		6.12						6.06 9.09			
183 ANGUILLA ROSTRATA MICROPOGON UNDULATUS ALOSA AESTIVALIS MENIDIA BERYLLINA			13.16	5.21	5.21			6.29	6.29	2.91 8.72	2.91 8.72		
221 MENIDIA BERYLLINA MICROPOGON UNDULATUS ALOSA AESTIVALIS ANGUILLA ROSTRATA		4.33			7.91	5.85 5.85		2.82		5.67	2.83	3.23 3.23	
21 ALOSA AESTIVALIS MICROPOGON UNDULATUS ALOSA PSEUDOHARENGUS ANGUILLA ROSTRATA MENIDIA BERYLLINA		12.92	10.34			6.25 6.25	6.25 6.25	2.64		2.63 5.26 2.63	5.26 2.63	3.68 3.68	3.68 3.68
			2.58					2.64	2.64			3.68	
		7.75					6.25						

FEBRUARY 12 - FEBRUARY 13, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
103													
BREVOORTIA TYRANNUS			2.97									2.99	
MICROPOGON UNDULATUS				10.75									
ANCHOA MITCHILLI					1.51		2.43					3.85	7.84
140													
MICROPOGON UNDULATUS			2.11	1.37		2.67				2.85			
ALOSA AESTIVALIS	10.81	2.11		4.12	9.72						2.86		2.86
BREVOORTIA TYRANNUS	37.84	8.44		1.37	4.17								
ANCHOA MITCHILLI					1.39								
MENIDIA BERYLLINA	5.41												
180													
ANGUILLA ROSTRATA	9.01	10.47		6.02				5.52	2.71		7.19	7.19	
MICROPOGON UNDULATUS				6.02		6.08			2.71	7.19	14.39		
ALOSA AESTIVALIS				6.02				2.76		7.19		7.19	
BREVOORTIA TYRANNUS				6.02					2.71				5.10
ANCHOA MITCHILLI										7.19			
220													
MICROPOGON UNDULATUS			4.20	6.78	3.26		3.61			2.95			
ALOSA PSEUDOHARENGUS						3.06							
ALOSA AESTIVALIS			4.20	3.39					3.17		2.96		
BREVOORTIA TYRANNUS	43.24	4.20					3.61						
ANGUILLA ROSTRATA	21.62	8.40					3.61	3.21	6.35				
ANCHOA MITCHILLI				10.17								3.65	
NOTROPIS HUDSONIUS									3.17				

[illegible]

MARCH 2 - MARCH 3, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
102													
MICROPOGON UNDULATUS			3.83							6.49	3.24		3.21
ALOSA AESTIVALIS													
BREVOORTIA TYRANNUS			3.83										
ANCHOA MITCHILLI	31.25			32.79	7.46			10.14		6.49	19.42	49.67	35.26
MENIDIA BERYLLINA	5.21												
SPECIMEN MANGLED								3.38		3.25			
142													
ANCHOA MITCHILLI						61.03	33.48	3.02	3.06	9.04	6.02	49.18	18.87
BREVOORTIA TYRANNUS									3.06				
182													
ANCHOA MITCHILLI	20.55			11.31	33.15	29.49			6.37	24.32	12.46	13.65	45.14
MICROPOGON UNDULATUS	13.70			31.67	35.91	24.13		15.53	6.37	12.16	34.27	10.24	20.83
ALOSA AESTIVALIS	2.28			2.26	11.05	10.72		6.21			6.23	3.41	
BREVOORTIA TYRANNUS	2.28												
ANGUILLA ROSTRATA				2.26								3.41	
224													
MICROPOGON UNDULATUS	10.64			19.01	12.42	28.30	47.17	6.87		6.83	13.65	3.26	16.34
ALOSA AESTIVALIS								10.31	28.07	3.41	3.41	6.51	
LEIOSTOMUS XANTHURUS				3.80									
ANGUILLA ROSTRATA			3.77					10.31	7.02				
ANCHOA MITCHILLI	26.60			68.44	68.32	9.43	37.74	10.31	14.04	44.37	20.48	78.18	114.38
MENIDIA BERYLLINA								3.44					
20													
ANGUILLA ROSTRATA	6.67						2.79			2.95			
MICROPOGON UNDULATUS				14.02	15.87	2.99	13.93	6.31	3.14	20.65	15.02	10.71	6.85
ALOSA PSEUDOHARENGUS						2.99							
ANCHOA MITCHILLI				28.04	19.05	53.73	41.78		9.43	26.55	33.03	28.57	23.97

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	59												
MICROPOGON UNDULATUS				73.91	18.58		13.16		6.43	17.49	14.97	2.96	6.87
ALOSA AESTIVALIS										2.92			
ANGUILLA ROSTRATA								6.33	3.22		2.99		
ANCHOA MITCHILLI				21.74	40.25	43.86	48.25		3.22	61.22	35.93	65.09	44.67

MARCH 16 - MARCH 17, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
104													
MICROPOGON UNDULATUS				5.68		4.20							
LEIOSTOMUS XANTHURUS												4.90	
BREVDORTIA TYRANNUS				5.68		12.61	4.20			3.52		4.90	4.90
ANCHOA MITCHILLI												4.90	
142													
MICROPOGON UNDULATUS				6.17								3.13	
BREVDORTIA TYRANNUS				18.52	6.17	18.60	18.60					6.25	10.71
ANCHOA MITCHILLI												3.13	3.57
182													
LEIOSTOMUS XANTHURUS			19.23										
MICROPOGON UNDULATUS				4.33	4.33	11.36	79.55						
BREVDORTIA TYRANNUS			19.23	25.97	4.33		22.73						
ANCHOA MITCHILLI				4.33	4.33		34.09						
222													
BREVDORTIA TYRANNUS		6.02	6.02		17.70	16.13							
MICROPOGON UNDULATUS				53.10	17.70	16.13	16.13						
LEIOSTOMUS XANTHURUS					17.70								
ANCHOA MITCHILLI				8.85		16.13							
22													
MICROPOGON UNDULATUS				12.20	12.20			3.36		3.05		6.67	6.67
LEIOSTOMUS XANTHURUS						43.48				3.05			
BREVDORTIA TYRANNUS				24.39	12.20	86.96	260.87		3.36			3.33	3.33
ANGUILLA ROSTRATA								3.36					
ANCHOA MITCHILLI					24.39		43.48			15.24	3.05	23.33	3.33

[illegible]

APRIL 6 - APRIL 7, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	103												
MORONE SAXATILIS		11.85	21.33	7.69	11.54	12.20		5.95					
ALOSA PSEUDOHARENGUS				1.92									
MORONE AMERICANA		2.37	4.74	17.31	15.38			2.98					
LEIOSTOMUS XANTHURUS		2.37											
BREVOORTIA TYRANNUS		7.11	2.37		1.92							3.01	12.93 17.24
ANCHOA MITCHILLI												3.01	
UNIDENTIFIED		14.22											
	142												
MICROPOGON UNDULATUS							12.82						7.60
LEIOSTOMUS XANTHURUS												3.80	
BREVOORTIA TYRANNUS	10.87							10.49	2.84	11.36		26.62	11.41
ANCHOA MITCHILLI													3.80
	180												
MICROPOGON UNDULATUS				2.33				3.08					
LEIOSTOMUS XANTHURUS					2.33								
BREVOORTIA TYRANNUS						20.70	16.56			24.92	15.58	3.72	14.87
ANCHOA MITCHILLI						2.07				6.23	6.23	7.43	3.72
	219												
MICROPOGON UNDULATUS				3.77	1.89	6.85	20.55			9.04		7.38	3.69
MORONE SAXATILIS				1.89									
MORONE AMERICANA				9.43									
LEIOSTOMUS XANTHURUS				1.89		13.70	10.27			6.02	6.02	11.07	7.38
BREVOORTIA TYRANNUS				1.89		51.37	47.95	3.46		24.10	27.11	29.52	25.83
ANGUILLA ROSTRATA						3.42		3.46					3.69
ANCHOA MITCHILLI							6.85		3.46		6.02	3.69	3.69

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	17												
BREVOORTIA TYRANNUS			3.33	2.05		39.06	7.81		3.19	41.10	23.97	21.74	17.39
MICROPOGON UNDULATUS						7.81	23.44		3.19	27.40	20.55	17.39	4.35
LEIOSTOMUS XANTHURUS				2.05	2.05	15.63	7.81			10.27	17.12		
ANGUILLA ROSTRATA											3.42		4.35
ANCHOA MITCHILLI										3.42	3.42		13.04
	-60												
ANGUILLA ROSTRATA		4.90											
MICROPOGON UNDULATUS				7.19	3.60		3.75		3.24		2.17	3.68	3.68
MORONE SAXATILIS												3.68	
LEIOSTOMUS XANTHURUS					3.60								
BREVOORTIA TYRANNUS				3.60	3.60		3.75				2.17	7.35	3.68
ANCHOA MITCHILLI								3.24					

APRIL 14 - APRIL 15, 1976

[illegible]

[illegible]

APRIL 19 - APRIL 20, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
102 BREVOORTIA TYRANNUS UNIDENTIFIED		10.06	2.24 2.24					3.25			3.25	2.75	3.03
139													
179 BREVOORTIA TYRANNUS MICROPOGON UNDULATUS ANCHOA MITCHILLI			3.58				12.66			2.89		5.80	3.27
												2.90	
222 MENIDIA MENIDIA MICROPOGON UNDULATUS LEIOSTOMUS XANTHURUS BREVOORTIA TYRANNUS ICTALURUS PUNCTATUS ANCHOA MITCHILLI UNIDENTIFIED		5.56			2.04 2.04		6.10				2.85 2.56 7.67 2.85	3.09 3.09 3.09 3.09	3.52 3.52 3.52 10.56
				2.02					8.72			6.17	
23 MICROPOGON UNDULATUS LEIOSTOMUS XANTHURUS BREVOORTIA TYRANNUS ANGUILLA ROSTRATA ANCHOA MITCHILLI SPECIMEN MANGLED			4.93	5.24	2.04 2.04					9.46		2.79	
			4.93					3.21		6.31	3.56		
										3.15			2.94

Appendix Table 2. (continued)

APRIL 28 - APRIL 29, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
92													
BREVOORTIA TYRANNUS		4.05						6.54				6.41	
LEIOSTOMUS XANTHURUS												12.20	6.10
ANCHOA MITCHILLI										6.41	6.41		
GOBIOSOMA BOSCI								6.54					
MENIDIA MENIDIA													6.10
129													
BREVOORTIA TYRANNUS								6.21				3.15	
GOBIOSOMA BOSCI						2.14							
170													
DOROSOMA CEPEDIANUM			3.44										
BREVOORTIA TYRANNUS						2.99	5.99			9.90			
ANCHOA MITCHILLI								8.62		4.95			
GOBIOSOMA BOSCI			3.44										
212													
MICROPOGON UNDULATUS						8.33							
LEIOSTOMUS XANTHURUS				8.55							6.37		
BREVOORTIA TYRANNUS							12.50	14.00					85.11
11													
MENIDIA BERYLLINA			20.20	6.76				12.50					
MICROPOGON UNDULATUS											13.70	7.69	
LEIOSTOMUS XANTHURUS						3.38				13.70			
BREVOORTIA TYRANNUS						32.15	13.54	12.50		27.40		23.08	
ANCHOA MITCHILLI					3.38	1.69				27.40			
MENIDIA MENIDIA		20.20	10.10		6.76	3.38							

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[illegible]

MAY 5 - MAY 6, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	92												
BREVOORTIA TYRANNUS		4.74						3.14	6.12			6.04	
MICROPOGON UNDULATUS				3.50								3.02	
LEIOSTOMUS XANTHURUS								3.14					
ANGUILLA ROSTRATA								3.14					
ANCHOA MITCHILLI										3.21			
	135												
ANCHOA MITCHILLI										3.21			
LEIOSTOMUS XANTHURUS													3.19
BREVOORTIA TYRANNUS				10.07								3.25	3.29
MENIDIA BERYLLINA		28.17											
MENIDIA MENIDIA		14.08											
	171												
MENIDIA MENIDIA		6.06						3.41					2.87
BREVOORTIA TYRANNUS													2.87
ANCHOA MITCHILLI										3.03		2.92	2.87
GOBIOSOMA BOSCI													
	212												
LEIOSTOMUS XANTHURUS		1.98		1.77	1.81				2.83			3.29	3.46
MICROPOGON UNDULATUS										3.26			
BREVOORTIA TYRANNUS		1.98				4.52	2.67	57.97	11.33	39.09	16.39	23.03	20.76
ANGUILLA ROSTRATA			2.01						2.83				
ANCHOA MITCHILLI						2.26		11.59	2.83	3.26	22.95	3.29	17.30
ELOPS SAURUS								2.90					

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	13												
GOBIOSOMA BOSCI			10.75										
MICROPYGON UNDULATUS						3.33				6.12			2.81
MORONE SAXATILIS				3.31									
BREVOORTIA TYRANNUS					9.62		6.67	2.98	9.17	6.12		2.74	14.04
ANCHOA MITCHILLI										9.17			
ELOPS SAURUS								2.92					
DOROSOMA PETENENSE													2.81
	53												
MENIDIA BERYLLINA													2.91
DOROSOMA PETENENSE								3.37					

MAY 11 - MAY 12, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	95												
GOBIOSOMA BOSCI					4.22								
MEMBRAS MARTINICA		46.88											
MENIDIA BERYLLINA		93.75	23.26		4.22								
MENIDIA MENIDIA		765.63	46.51	33.20	16.88	12.05	19.23	4.10					
	133												
ANCHOA MITCHILLI												3.19	
MENIDIA MENIDIA										6.94			
	170												
ANCHOA MITCHILLI												3.55	
MICROPOGON UNDULATUS													3.48
LEIOSTOMUS XANTHURUS					6.49								
BREVOORTIA TYRANNUS							3.31		3.97			3.55	3.48
GOBIOSOMA BOSCI			7.94	8.77	6.49				7.94		6.97		
MENIDIA MENIDIA				4.39	6.49			4.00	3.97			3.55	3.48
	210												
ANCHOA MITCHILLI												3.56	3.55
BREVOORTIA TYRANNUS										10.60		7.09	3.61
ANGUILLA ROSTRATA											3.56		
GOBIOSOMA BOSCI				33.90		8.00							
MENIDIA BERYLLINA		58.82		33.90	16.95	8.00	16.00			3.53		7.09	
MENIDIA MENIDIA		117.65	400.00							10.60	3.56	10.64	
ELOPS SAURUS						8.00							

[illegible]

MAY 17 - MAY 18, 1976

[illegible]

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	11												
ANGUILLA ROSTRATA		16.39	22.22										
MICROPOGON UNDULATUS					15.15								
LEIGSTOMUS XANTHURUS													
BREVOORTIA TYRANNUS								7.46		3.88			
ANCHOA MITCHILLI				10.75		8.33	18.87			7.75		4.17	
GOBIOSOMA BOSCI				32.26			9.43			3.88	7.52	4.17	
MENIDIA BERYLLINA			22.22	21.51			18.87	7.46				4.17	4.41
MENIDIA MENIDIA		49.18									3.76		4.41
										3.88			
	52												
ANCHOA MITCHILLI		11.11			3.44								
GOBIOSOMA BOSCI					3.44	6.67	6.73				3.37	3.82	

MAY 25 - MAY 26, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
91 SYNGNATHUS FUSCUS GOBIOSOMA BOSCI						4.22 4.22		9.35		4.07	8.06	8.06	11.72
131 BREVOORTIA TYRANNUS GOBIOSOMA BOSCI MENIDIA MENIDIA		8.93			9.35		7.22	3.85				3.58	7.27
169 GOBIOSOMA BOSCI MEMBRAS MARTINICA MENIDIA MENIDIA MENIDIA SP.			9.35 4.67	24.51	28.93	5.92						11.58	11.24
					4.13 4.13								
210 ANCHOA MITCHILLI GOBIOSOMA BOSCI MENIDIA BERYLLINA MENIDIA MENIDIA MENIDIA SP. ELOPS SAURUS				7.58 121.21 7.58 15.15	50.72 7.25	8.77	29.76	11.95 3.98	46.88 3.91	11.58 3.86	15.04 3.76	3.88 3.76	18.59 3.72 3.72

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	12												
BREVOORTIA TYRANNUS			6.37						3.57				
ANCHOA MITCHILLI										3.57	3.48		
SYNGNATHUS FUSCUS											3.48		
GOBIOSOMA BOSCI		6.94	6.37	34.48	28.37	10.99	18.18	10.53		7.14	3.48	10.53	
MENIDIA BERYLLINA						5.49	9.09					3.51	
MENIDIA MENIDIA		13.89		20.69					3.57	3.57			
MENIDIA SP.								3.51					
ELOPS SAURUS			6.37				4.55	3.51	7.14	3.57		3.51	
	53												
GOBIOSOMA BOSCI			7.87		14.71					13.65		3.36	7.09

JUNE 3 - JUNE 4, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	90												
GOBIOSOMA BOSCI		7.33		47.32	31.11	26.85	49.50	4.03		18.59	11.24	26.47	12.38
MENIDIA BERYLLINA			4.93										
MENIDIA MENIDIA		25.64	14.78	6.31		6.71				3.72			6.19
MENIDIA SP.			9.85										
	133												
GOBIOSOMA BOSCI							9.35			8.00		4.17	
MENIDIA MENIDIA		5.15	46.78		6.21		9.35						
	170												
ANCHOA MITCHILLI										3.79			
GOBIOSOMA BOSCI					5.05		11.11	11.49		11.36	3.86	38.61	7.30
MENIDIA BERYLLINA		5.00											
	211												
BREVOORTIA TYRANNUS										3.57			
GOBIOSOMA BOSCI		3.88			3.38		7.66	4.24	7.97	10.71	21.13	8.16	7.14
MENIDIA BERYLLINA				3.37	16.89	7.27	7.66	4.24		7.14	3.52	4.08	
MENIDIA MENIDIA				3.37	16.89		3.83		3.98	3.57	3.52		
	13												
ANCHOA MITCHILLI									5.03				
GOBIOSOMA BOSCI		20.13		9.62		3.21	10.45	10.42	15.08	18.07	8.93	12.20	4.44
CHASMODES BOSQUIANUS				4.81									
MENIDIA BERYLLINA								5.21					
MENIDIA MENIDIA					3.77						4.46		
	51												
GOBIOSOMA BOSCI							3.41					3.97	

JUNE 28 - JUNE 29 1976

SPECIES	STATION TIME	INTAKE				DISCHARGE							
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
94													
ANCHOA MITCHILLI		400.00						6.25		11.43		17.42	3.52
LEIOSTOMUS XANTHURUS				90.91									
GOBIOSOMA BOSCI		200.00		3090.91	1000.00	222.22	137.93	128.13	40.88	177.14	100.29	233.45	147.89
MENIDIA BERYLLINA			200.00						3.14				
MENIDIA MENIDIA		1800.00											3.52
132													
GOBIOSOMA BOSCI			363.64	97.56	26.32	523.08	473.12	66.67	98.51	120.23	185.84	156.98	164.60
ANCHOA MITCHILLI				12.20		15.38	16.13						6.21
MEMBRAS MARTINICA				12.20									
MENIDIA BERYLLINA				12.20		84.62	10.75						
MENIDIA MENIDIA						15.38							
171													
ANCHOA MITCHILLI		16.95		22.94	45.87	15.08	30.15		6.41	2.94		15.38	16.18
DOROSOMA CEPEDIANUM								3.13					
GOBIOSOMA BOSCI				793.58	1146.79	1085.43	1150.75	353.13	342.95	511.76	547.55	498.46	899.68
MENIDIA BERYLLINA			158.54										
MENIDIA MENIDIA		16.95			4.59					2.94	2.88		
DOROSOMA PETENENSE										2.94			
219													
LUCANIA PARVA			23.26										
ANGUILLA ROSTRATA													3.13
ANCHOA MITCHILLI				171.43	407.41	285.71	155.56	3.33	13.29	3.21	16.13	12.12	3.13
GOBIOSOMA BOSCI		181.82	232.56	1028.57	1518.52	2214.29	1177.78	96.67	29.90	64.10	161.29	181.82	169.28
MEMBRAS MARTINICA								3.33					
MENIDIA BERYLLINA					37.04	35.71				3.21			

[illegible]

Appendix Table 3. Species and number of eggs captured during 24-hour plant entrainment stations at VEPCO Surry Nuclear Power Station from April, 1975 through June, 1976 (Decimal points are product of computer program to obtain numbers/100m³; station time expressed as hour and tenths, EST).

Eggs were not captured in our samples during all of the 24-hour sampling stations. The following dates represent stations which yielded no eggs; they have been omitted from Tables 3 and 4:

April 22-23, 1975

May 22-23, 1975

July 29-30, 1975

October 15-16, 1975

November 13-14, 1975

December 9-10, 1975

January 14-15, 1976

February 12-13, 1976

March 2-3, 1976

March 16-17, 1976

April 28-29, 1976

Appendix Table 3. (continued)

MAY1 - MAY 2, 1975

169

[illegible]

Appendix Table 3. (continued)

170

MAY 7 - MAY 8, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
CYPRINUS CARPIO	88							4.00		207.00	221.00	131.00	139.00
CYPRINUS CARPIO	131	1.00		1.00	1.00			4.00	8.00	7.00	10.00	14.00	
CYPRINUS CARPIO	169							1.00	1.00			5.00	4.00
CYPRINUS CARPIO	210											7.00	2.00
CYPRINUS CARPIO	10	1.00			1.00			4.00	2.00	16.00	12.00	80.00	76.00
CYPRINUS CARPIO	50	2.00	1.00	5.00	4.00		11.00	34.00	21.00	85.00	121.00	53.00	271.00

Appendix Table 3. (continued)

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MAY 14 - MAY 15, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
CYPRINUS CARPIO	89		1.00			12.00	17.00			3.00	3.00	4.00	3.00
CYPRINUS CARPIO	130										1.00		
CYPRINUS CARPIO	169							1.00		1.00		3.00	3.00
CYPRINUS CARPIO	211											1.00	
CYPRINUS CARPIO	11										1.00		
CYPRINUS CARPIO	50					1.00	2.00	1.00		1.00	2.00	6.00	1.00

MAY 29 - MAY 30, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	90												
	129												
	170												
	210												
	10												
	51												
CYPRINUS CARPIO										1.00		1.00	

JUNE 4 - JUNE 5, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	91												
	130												
	169												
	211												
	10												
	48												
NOTROPIS HUDSONIUS								1.00	2.00			1.00	

Appendix Table 3. (continued)

174

JUNE 11 - JUNE 12, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	88	3.00	6.00	44.00	44.00	90.00	84.00	42.00	39.00	44.00	47.00	76.00	60.00
ANCHOA MITCHILLI	128			10.00	7.00	25.00	31.00	15.00	27.00	29.00	20.00	6.00	20.00
ANCHOA MITCHILLI	170	4.00		14.00	7.00	10.00	11.00	7.00	10.00	13.00	6.00	8.00	7.00
ANCHOA MITCHILLI	190	43.00	27.00	38.00	57.00	16.00	25.00	10.00	11.00	15.00	19.00	35.00	15.00
ANCHOA MITCHILLI	13	4.00	3.00	3.00	8.00	8.00	13.00	5.00	4.00	5.00	11.00	9.00	8.00
ANCHOA MITCHILLI	52	9.00	6.00	4.00	4.00	31.00	40.00		4.00	3.00	1.00		1.00

Appendix Table 3. (continued)

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JUNE 17 - JUNE 18, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	88	7.00	8.00	14.00	24.00	283.00	276.00	88.00	74.00	93.00	75.00	71.00	81.00
ANCHOA MITCHILLI	130	3.00	3.00	52.00	71.00	103.00	128.00	6.00	3.00	5.00	1.00	5.00	10.00
ANCHOA MITCHILLI	170	1.00	2.00	16.00	10.00	236.00	268.00	3.00	4.00	7.00	11.00	11.00	11.00
ANCHOA MITCHILLI	212	16.00	18.00	16.00	16.00	7.00	14.00		1.00	1.00	1.00	2.00	2.00
ANCHOA MITCHILLI DOROSOMA CEPEDIANUM	10	1.00		2.00	4.00	17.00	17.00	6.00	5.00	6.00	6.00	6.00	1.00 1.00
ANCHOA MITCHILLI	49	1.00		3.00	2.00	4.00	3.00				1.00	1.00	2.00

Appendix Table 3. (continued)

176

JUNE 24 - JUNE 25, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	89	56.00	60.00	229.00	214.00	64.00	90.00	162.00	183.00	212.00	173.00	179.00	140.00
ANCHOA MITCHILLI	129	58.00	73.00	10.00	7.00	45.00	61.00	77.00	76.00	77.00	53.00	50.00	54.00
ANCHOA MITCHILLI	170	6.00	5.00	9.00	12.00	11.00	3.00		9.00	9.00	9.00		8.00
ANCHOA MITCHILLI	210		2.00	6.00	12.00	14.00	27.00	3.00	11.00	11.00	6.00	3.00	2.00
ANCHOA MITCHILLI	13	1.00		99.00	95.00	78.00	88.00	4.00	15.00	17.00	15.00	19.00	27.00
ANCHOA MITCHILLI	49	5.00	6.00	7.00	3.00	16.00	15.00	2.00	3.00	2.00	4.00	5.00	4.00

Appendix Table 3. (continued)

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JULY 9 - JULY 10, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	93				3.00	5.00	4.00		1.00	3.00	2.00	1.00	
ANCHOA MITCHILLI	129		3.00	17.00	16.00	8.00	4.00	17.00	15.00	18.00	18.00	17.00	23.00
ANCHOA MITCHILLI	171			2.00		2.00	3.00	2.00	2.00	1.00			3.00
ANCHOA MITCHILLI	213							1.00	1.00		1.00	2.00	1.00
ANCHOA MITCHILLI	11								2.00				1.00

50

AUGUST 13 - AUGUST 14, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
92 ANCHOA MITCHILLI							1.00						
135													
170 ANCHOA MITCHILLI CATOSTOMUS COMMERSONI		4.00	2.00		3.00	1.00	1.00		1.00				1.00
210 ANCHOA MITCHILLI			1.00	58.00			67.00	1.00					1.00
11 ANCHOA MITCHILLI									1.00		2.00		
50 ANCHOA MITCHILLI GOBIOSOMA BOSCI				2.00			1.00			1.00			2.00

179

179

[illegible]

Appendix Table 3. (continued)

180

APRIL 6 - APRIL 7, 1976

[illegible]

181

INTAKE

DISCHARGE

SURFACE
LEFT RIGHT

MIDWATER
LEFT RIGHT

BOTTOM
LEFT RIGHT

SURFACE
LEFT RIGHT

MIDWATER
LEFT RIGHT

BOTTOM-
LEFT RIGHT

96

139

181

221

20

UNIDENTIFIED

1.00

61

182.

INTAKE

DISCHARGE

[illegible]

Appendix Table 3. (continued)

MAY 5 - MAY 6, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	92	5.00	5.00	5.00	3.00			2.00	1.00	5.00	1.00		1.00
ANCHOA MITCHILLI	135	1.00		4.00	3.00		7.00			2.00	1.00		1.00
ANCHOA MITCHILLI	171							1.00	1.00				
ANCHOA MITCHILLI	212			1.00	1.00							1.00	1.00
ANCHOA MITCHILLI	13				2.00	2.00	5.00		2.00	2.00			2.00
ANCHOA MITCHILLI	53	10.00	9.00	10.00	13.00	7.00	7.00	1.00	1.00	1.00	1.00	1.00	2.00

Appendix Table 3. (continued)

184

MAY 11 - MAY 12, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	95	5.00	6.00	6.00	12.00	3.00	1.00	6.00	19.00	19.00	16.00	13.00	5.00
ANCHOA MITCHILLI	133	2.00	4.00	4.00	5.00	7.00	5.00			2.00	5.00		2.00
ANCHOA MITCHILLI	170		1.00	4.00	3.00	9.00	20.00	3.00	6.00	2.00	2.00	3.00	9.00
ANCHOA MITCHILLI	210	2.00	5.00	22.00	29.00	13.00	27.00	11.00	8.00	20.00	12.00	15.00	32.00
ANCHOA MITCHILLI	8		11.00			21.00	11.00	5.00		3.00	17.00		
ANCHOA MITCHILLI	50		1.00	1.00		4.00	8.00	21.00	26.00	27.00	30.00	11.00	12.00

Appendix Table 3. (continued)

185

MAY 17 - MAY 18, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
90 ANCHOA MITCHILLI		51.00	56.00	9.00	52.00	13.00	13.00	76.00	73.00	113.00	105.00	71.00	98.00
132 ANCHOA MITCHILLI MENIDIA BERYLLINA MENIDIA MENIDIA DOROSOMA SPP.		7.00	7.00	60.00	69.00	100.00	82.00	18.00	26.00 2.00 1.00	20.00	20.00	31.00	25.00
172 ANCHOA MITCHILLI		60.00	74.00	113.00	75.00	111.00	152.00	13.00	23.00	13.00	30.00	21.00	29.00
212 ANCHOA MITCHILLI		4.00	4.00	7.00	20.00	26.00	12.00	17.00	17.00	33.00	18.00	37.00	47.00
11 ANCHOA MITCHILLI		3.00	5.00	164.00	174.00	612.00	579.00	65.00	30.00	51.00	84.00	54.00	79.00
52 ANCHOA MITCHILLI ANCHOA HEPSETUS MENIDIA MENIDIA		149.00	102.00	375.00	500.00	752.00	767.00	129.00	97.00	186.00	171.00	180.00	144.00 1.00 1.00

Appendix Table 3. (continued)

186

MAY 25 - MAY 26, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
91 ANCHOA MITCHILLI		13.00	11.00	106.00	141.00	111.00	140.00	59.00	12.00	38.00	19.00	29.00	20.00
131 ANCHOA MITCHILLI ANCHOA HEPSETUS		5.00	2.00	9.00	9.00	22.00	14.00	6.00	15.00	12.00	11.00	24.00 1.00	32.00
169 ANCHOA MITCHILLI DOROSOMA SPP.		20.00	17.00	42.00	44.00	64.00	54.00 1.00	6.00	6.00	7.00	10.00	4.00	13.00
210 ANCHOA MITCHILLI MENIDIA BERYLLINA		21.00	17.00	61.00	64.00	59.00	57.00	22.00	28.00	12.00	4.00	18.00	36.00 1.00
12 ANCHOA MITCHILLI		2.00	5.00	10.00	10.00	7.00	11.00	32.00	12.00	12.00	13.00	30.00	4.00
53 ANCHOA MITCHILLI		20.00	17.00	49.00	24.00	39.00	53.00	46.00	28.00	25.00	24.00	15.00	25.00

Appendix Table 3. (continued)

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JUNE 3 - JUNE 4, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
90 ANCHOA MITCHILLI		30.00	22.00	35.00	35.00	139.00	108.00	26.00	19.00	36.00	14.00	102.00	36.00
133 ANCHOA MITCHILLI UNIDENTIFIED		94.00	102.00	281.00	284.00	258.00	272.00 1.00	143.00	98.00	172.00	145.00	134.00 1.00	189.00
170 ANCHOA MITCHILLI ANCHOA HEPSETUS MENIDIA MENIDIA		37.00	33.00	116.00	107.00	70.00 1.00	78.00	59.00	40.00	51.00	60.00	62.00 1.00	87.00 1.00
211 ANCHOA MITCHILLI MENIDIA MENIDIA DOROSOMA SPP.		2.00	1.00	24.00	12.00	2.00	19.00	18.00 1.00	14.00 1.00	27.00	36.00	24.00 3.00	51.00
13 ANCHOA MITCHILLI MENIDIA BERYLLINA		28.00	37.00	80.00	41.00	180.00	154.00	53.00	60.00	66.00	32.00	76.00 1.00	76.00
51 ANCHOA MITCHILLI		197.00	329.00	853.00		393.00	510.00	236.00	491.00	231.00	175.00	235.00	243.00

Appendix Table 3. (continued)

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JUNE 28. - JUNE 29, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
94 ANCHOA MITCHILLI		5.00	3.00	32.00	21.00	35.00	29.00	8.00	3.00	6.00	1.00	1.00	1.00
132 ANCHOA MITCHILLI					1.00	2.00	5.00			1.00			1.00
171 ANCHOA MITCHILLI MENIDIA MENIDIA		1.00		2.00	2.00	6.00	1.00	4.00	1.00	2.00	4.00 2.00	2.00	3.00
219 ANCHOA MITCHILLI FUNDULUS DIAPHANUS DOROSOMA SPP.				1.00	1.00	4.00	1.00	22.00	5.00	20.00	79.00	19.00	73.00 3.00 1.00
12 ANCHOA MITCHILLI		1.00	6.00	3.00	4.00	4.00	8.00	32.00	26.00	25.00	16.00	57.00	10.00
51 ANCHOA MITCHILLI		9.00	4.00	12.00	11.00	12.00	33.00	60.00	113.00	40.00	121.00	181.00	311.00

Appendix Table 4. Species and calculated number of individuals per 100m³ during 24-hour plant entrainment stations at VEPCO Surry Nuclear Power Station from April, 1975 through June, 1976. (Station time expressed as hour and tenths, EST).

Eggs were not captured in our samples during all of the 24-hour sampling stations. The following dates represent stations which yielded no eggs; they have been omitted from Tables 3 and 4:

April 22-23, 1975

May 22-23, 1975

July 29-30, 1975

October 15-16, 1975

November 13-14, 1975

December 9-10, 1975

January 14-15, 1976

February 12-13, 1976

March 2-3, 1976

March 16-17, 1976

April 28-29, 1976

MAY 1 - MAY 2, 1975

3.75

Appendix Table 4. (continued)

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MAY 7 - MAY 8, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
CYPRINUS CARPIO	88							19.32		818.18	818.52	584.82	572.02
CYPRINUS CARPIO	131	5.88		5.92	4.13			14.71	31.75	27.03		35.71	48.44
CYPRINUS CARPIO	169							3.80	3.97			10.12	15.94
CYPRINUS CARPIO	210											27.89	7.49
CYPRINUS CARPIO	10	5.68			3.46			14.08	7.12	51.78	37.97	267.56	242.81
CYPRINUS CARPIO	50	10.36	4.55	53.19	33.33		50.23	128.30	77.21	292.10	414.38	197.03	981.88

Appendix Table 4. (continued)

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MAY 14 - MAY 15, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
CYPRINUS CARPIO	89		58.82			64.17	59.65			8.13	8.20	10.15	7.61
CYPRINUS CARPIO	130										2.58		
CYPRINUS CARPIO	169								2.99		2.71	8.36	8.38
CYPRINUS CARPIO	211											3.00	
CYPRINUS CARPIO	11										3.04		
CYPRINUS CARPIO	50					5.10	8.51	2.90		2.89	5.76	16.53	2.81

MAY 29 - MAY 30, 1975

[illegible]

Appendix Table 4. (continued)

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JUNE 4 - JUNE 5, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	91												
	130												
	169												
	211												
	10												
	48												
NOTROPIS HUDSONIUS								5.92	11.83			5.29	

JUNE 11 - JUNE 12, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	88	23.26	38.22	396.40	321.17	947.37	730.43	163.42	154.15	161.76	174.72	360.19	277.78
ANCHOA MITCHILLI	128			138.89	79.55	347.22	267.24	52.26	93.43	105.45	72.99	26.91	86.58
ANCHOA MITCHILLI	170	114.29		202.90	70.71	57.80	44.53	23.81	35.34	42.07	20.13	25.40	23.33
ANCHOA MITCHILLI	190	330.77	204.55	355.14	537.74	400.00	384.62	38.31	42.47	49.34	63.97	142.86	61.22
ANCHOA MITCHILLI	13	78.43	36.59	17.96	43.48	25.56	39.51	20.75	16.26	17.18	37.16	38.14	34.93
ANCHOA MITCHILLI	52	59.21	37.74	18.78	17.47	142.20	150.38		15.69	11.54	3.83		3.94

Appendix Table 4. (continued)

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JUNE 17 - JUNE 18, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	88	28.57	32.65	55.12	85.71	6152.17	8625.00	282.96	241.04	289.72	238.10	204.61	249.23
ANCHOA MITCHILLI	130	30.30	22.73	611.76	546.15	432.77	475.84	21.20	10.83	16.89	3.46	14.75	30.30
ANCHOA MITCHILLI	170	7.75	12.42	118.52	57.14	742.14	884.49	10.17	13.56	22.58	35.71	42.97	43.82
ANCHOA MITCHILLI	212	140.35	86.96	68.09	63.24	30.70	64.52		2.96	2.89	2.96	5.52	5.76
ANCHOA MITCHILLI DOROSOMA CEPEDIANUM	10	7.41		86.96	95.24	472.22	158.88	18.52	15.58	19.61	19.93	18.18	3.01 3.01
ANCHOA MITCHILLI	49	10.10		41.67	117.65	137.93	30.93				3.06	3.10	6.45

Appendix Table 4. (continued)

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JUNE 24 - JUNE 25, 1975

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	89	397.16	298.51	4490.20	11888.89	355.56	489.13	483.58	549.55	592.18	483.24	688.46	530.30
ANCHOA MITCHILLI	129	651.69	701.92	52.36	36.46	204.55	277.27	198.97	203.21	205.33	138.74	200.80	192.86
ANCHOA MITCHILLI	170	1000.00	1000.00	56.96	101.69	92.44	18.99		21.79	23.81	24.39		25.00
ANCHOA MITCHILLI	210		11.76	88.24	134.83	125.00	333.33	8.00	30.05	30.56	16.30	9.52	6.33
ANCHOA MITCHILLI	13	7.46		473.68	719.70	772.28	792.79	10.23	38.86	52.31	46.30	69.34	89.40
ANCHOA MITCHILLI	49	34.01	43.80	23.03	9.74	135.59	107.91	5.68	8.60	5.68	12.23	16.29	13.89

INTAKE

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	93				28.85	125.00	100.00		4.44	12.45	8.30	4.46	
ANCHOA MITCHILLI	129	23.81	629.63	114.29	123.08	20.83		74.56	58.82	64.52	65.69	54.66	75.66
ANCHOA MITCHILLI	171		11.43		10.15	52.63		8.23	8.62	3.75			13.64
ANCHOA MITCHILLI	213							5.26	5.49		5.62	11.56	5.68
ANCHOA MITCHILLI	11								9.22				5.95

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INTAKE

DISCHARGE

SPECIES	STATION TIME	INJURY						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
92 ANCHOA MITCHILLI							6.49						
135													
170 ANCHOA MITCHILLI CATOSTOMUS COMMERSONI		18.10	7.84		8.47	7.58	8.20		3.04				3.82
210 ANCHOA MITCHILLI			24.39	171.09			184.07		2.92				3.92
11 ANCHOA MITCHILLI									3.82		5.85		
50 ANCHOA MITCHILLI GOBIOSOMA BOSCI				6.54			4.61			2.97			6.58

Appendix Table 4. (continued)

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SEPTEMBER 3 - SEPTEMBER 4, 1975

[illegible]

INTAKE

DISCHARGE

SURFACE
LEFT RIGHT

MIDWATER
LEFT RIGHT

BOTTOM
LEFT RIGHT

SURFACE
LEFT RIGHT

MIDWATER -
LEFT RIGHT

BOTTOM
LEFT RIGHT

4.31

Appendix Table 4. (continued)

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APRIL 14 - APRIL 15, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	96												
	139												
	181												
	221												
UNIDENTIFIED	20												
	61												

APRIL 19 - APRIL 20, 1976

[illegible]

Appendix Table 4. (continued)

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MAY 5 - MAY 6, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	92	11.85	11.99	17.48	10.10			6.29	3.06	16.03	3.33		3.22
ANCHOA MITCHILLI	135	14.08		13.42	10.34		34.15			6.41	3.25		3.19
ANCHOA MITCHILLI	171							3.41	3.37				
ANCHOA MITCHILLI	212			1.77	1.81							3.29	3.46
ANCHOA MITCHILLI	13				9.62	6.67	16.67		5.95	6.12			5.62
ANCHOA MITCHILLI	53	59.17	51.43	28.90	38.69	21.67	22.51	3.41	3.37	2.94	2.92	2.92	5.81

MAY 11 - MAY 12, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	95	78.13	139.53	24.90	50.63	36.14	19.23	23.90	77.87	82.25	64.78	47.97	19.16
ANCHOA MITCHILLI	133	15.27	33.33	15.56	25.91	32.26	30.49			6.60	17.36		6.12
ANCHOA MITCHILLI	170		7.94	17.54	19.48	26.55	66.23	12.00	23.81	6.99	6.97	10.64	31.36
ANCHOA MITCHILLI	210	117.65	1000.00	372.88	491.53	104.00	216.00	42.31	31.25	70.67	42.70	53.19	115.52
ANCHOA MITCHILLI	8		96.49			77.49	40.59	19.38		10.31	58.02		
ANCHOA MITCHILLI	50		4.24	4.33		26.32	36.20	93.33	115.04	101.50	114.50	40.15	43.80

Appendix Table 4. (continued)

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MAY 17 - MAY 18, 1976

[illegible]

MAY 25 - MAY 26, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
91 ANCHOA MITCHILLI		68.42	54.46	504.76	582.64	468.35	530.30	275.70	50.85	154.47	76.61	116.94	78.13
131 ANCHOA MITCHILLI ANCHOA HEPSETUS		44.64	17.86	84.91	84.11	115.79	50.54	23.08	51.37	45.98	42.15	86.02 3.58	116.36
169 ANCHOA MITCHILLI DOROSOMA SPP.		102.56	79.44	205.88	181.82	378.70	281.25 5.21	25.10	24.39	29.41	40.32	15.44	48.69
210 ANCHOA MITCHILLI MENIDIA BERYLLINA		176.47	158.88	462.12	463.77	517.54	339.29	87.65	109.38	46.33	15.04	69.77 3.72	133.83
12 ANCHOA MITCHILLI		13.89	31.85	68.97	70.92	38.46	50.00	112.28	42.86	42.86	45.30	105.26	20.41
53 ANCHOA MITCHILLI		144.93	149.61	544.30	352.94	629.03	883.33	161.97	97.22	85.32	85.71	50.34	88.65

Appendix Table 4. (continued)

208

JUNE 3 - JUNE 4, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
90 ANCHOA MITCHILLI		109.89	108.37	110.41	155.56	932.89	1069.31	104.84	76.92	133.83	52.43	300.00	111.46
133 ANCHOA MITCHILLI UNIDENTIFIED		484.54	596.49	1338.09	1763.98	1791.67	2542.05 9.35	624.45	420.60	688.00	614.41	558.33 4.17	780.99
170 ANCHOA MITCHILLI ANCHOA HEPSETUS MENIDIA MENIDIA		185.00	184.36	400.00	540.40	286.89 4.10	433.33	226.05	161.29	193.18	231.66	239.38	317.52 3.86 3.65
211 ANCHOA MITCHILLI MENIDIA MENIDIA DOROSOMA SPP.		7.75	3.94	80.81	40.54	7.27	72.80	76.27 4.24	55.78 3.98	96.43	126.76	97.96 12.24	182.14
13 ANCHOA MITCHILLI MENIDIA BERYLLINA		187.92	225.61	384.62	154.72	576.92	536.59	276.04	301.51	397.59	142.86	308.94 4.07	337.78
51 ANCHOA MITCHILLI		726.94	1154.39	2852.84		1505.75	1740.61	1021.65	1925.49	1054.79	717.21	932.54	886.86

Appendix Table 4. (continued)

JUNE 28 - JUNE 29, 1976

SPECIES	STATION TIME	INTAKE						DISCHARGE					
		SURFACE		MIDWATER		BOTTOM		SURFACE		MIDWATER		BOTTOM	
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
ANCHOA MITCHILLI	94	1000.00	300.00	2909.09	1166.67	1296.30	1000.00	25.00	9.43	17.14	2.95	3.48	3.52
ANCHOA MITCHILLI	132				13.16	15.38	26.88			2.93			3.11
ANCHOA MITCHILLI MENIDIA MENIDIA	171	16.95		9.17	9.17	30.15	5.03	12.50	3.21	5.88	11.53 5.76	6.15	9.71
ANCHOA MITCHILLI FUNDULUS DIAPHANUS DOROSOMA SPP.	219			28.57	37.04	142.86	22.22	73.33	16.61	64.10	254.84	57.58	228.84 9.40 3.13
ANCHOA MITCHILLI	12	58.82	500.00	107.14	200.00	31.75	112.68	104.58	87.25	74.18	46.92	163.79	30.49
ANCHOA MITCHILLI	51	219.51	100.00	68.18	63.58	39.60	97.63	194.17	364.52	113.31	350.72	535.50	928.36