The California Department of Fish and Game (CDFG) database "StomachContents\_orig.mdb" maintains stomach-content analysis data of striped bass and other predatory fish. The "Database Information" section provides details on the database and QAQC analysis. The "Data Summary" section provides a synopsis of the data within the database.

## Database Information

Database details are as follows:

- Created on Tuesday, February 09, 1999 11:13:54 AM
- Size ~ 4 MB
- 15 tables (main tables are "Fish", "Stomach", "Length")
- 23 queries (most of which created this report)
- 5 forms (for data entry)

Table "Fish" has 28 fields; only the fields *StomachID*, *Date*, *PredatorCode*, and *RecoveryLocation* contain relevant data. *StomachID* is a unique identification number, which was assigned postdata entry to each predatory fish (n=3,153). *Date* refers to the collection date (mm/dd/yyyy) of the sample. *PredatorCode* is unique number assigned to each predatory fish species. *RecoveryLocation* is the location of capture of the predatory fish.

Eighty *StomachID* (fish) were flagged as missing data in either the *Date*, or *PredatorCode*, or *RecoveryLocation* fields (Table 1).

- 78 have no data in the field *Date*
- 44 have no data in the field *PredatorCode*
- 76 have no data in the field *RecoveryLocation*
- 40 have no data in all three fields (and no data in tables "Stomach" and "Length" as well) [Note: It is possible this happened when assigning the *StomachID* number (that is, a number was assigned to an empty row.)]

Stomach	Date		Recovery	Stomach	Date		Recovery	Stomach	Date		Recovery
ID	Date	Code	Location	ID	Date	Code	Location	ID	Date	Code	Location
106		3	CC	629	05/21/92			976		3	
107		3	CC	630		=		977			
108		3		631				978			
109		3		640				979			
169		3		669				980			
298			m	685	09/27/88	3		982			
465	K			686				983			
466			CC	699				1651		3	
467				720				1652		3	
470				729				1653		3	
487				738				1654		3	
497				740				1655		3	
498				797		3		1656		3	
499				824		3		1657		3	
500				825		3		1658		3	
504			<b>W</b>	826		3		1659		3	
511				831		3		1668		3	
547				832		3		1669		3	
556				833		3		1670		3	
569				834		3		1671		3	
576				835		3		1672		3	
597				848				1673		3	
602				898				1674		3	
606				907		3		1675		3	
616				909		3		1676		3	
619				959				1677		3	
623				975							

Table 1. Stomach ID's with missing data in table "Fish"

Table "Stomach" has five fields: *StomachID*, *General*, *Specific*, *Count*, *Key*. *StomachID* relates to the field of the same name in table "Fish". *General* and *Specific* fields describe each prey item. The *Count* field pertains to the number of items found in the category. (This was the intent at the time the database was designed. Count field now contains numbers 8888 and 9999, possibly related to fish salvage.) The *Key* field is a unique number assigned post-data entry. Discrepancies are as follows.

- 33 *StomachID* contain no data in both the *General* and *Specific* fields (10 of the 33 StomachID's appear more than once, *StomachID* = 122, 135, 146, 156, 166, 171,180, 184, 195, 245)
- 8 StomachID contain data in the General field but not in the Specific field
- 214 StomachID contain data in the Specific field but not in the General field

Table "Length" has eight fields; only the fields *StomachID* and *Length* contain relevant data. *StomachID* relates to the field of the same name in table "Fish". The *Length* field contains the predator fork length (FL) measured in millimeters (mm). Discrepancies are as follows.

• Table "Length" contains 3,033 entries—four *StomachID* (78, 469, 1497, 1499) are duplicate entries (one with length, and one without) and four *StomachID* (116, 117, 118, 1654) have no length

Other items of note are as follows.

- The sex of each predator was not recorded (39 = unknown, 2,994 are blank)
- The age of each predator was not recorded (although one largemouth bass (*StomachID* = 2374) lists an age of 3 and one striped bass (*StomachID* = 1516) lists an age of 46)
- "m" was entered once in the field *RecoveryLocation* (table "Fish")
- In the *General* field (table "Stomach"), the following six fish families do not "group" when performing a "Group By" query. In addition, "Bait" does not "group". It is not clear why this happens.
  - 1. Atherinidae
  - 2. Centrarchidae
  - 3. Clupeidae
  - 4. Cottidae
  - 5. Gobiidae
  - 6. Percichthyidae

## Data Summary

Stomach contents of seven different piscivorous -fish species (predatory fish) were collected (and analyzed) from 1987 to 1995 and in 1998 (Tables 2 and 3). The majority of stomachs were from striped bass. Samples were collected throughout the entire year in 1993, 1994, and 1995. For all other years, samples were collected between April or May and June. In 1988, samples also were collected between August and October. Note: only one stomach was collected in 1998.

Table 2. Number of stomachs sampled per predator. Percent of total provide for comparison.

Predator Common Name	Scientific Name	Predator Code	Number of Stomachs Sampled	Percent of Total Sampled
Brown Bullhead	Ameiurus nebulosus	5	2	0.1%
Channel Catfish	lctalurus punctatus	6	103	3.3%
Largemouth Bass	Micropterus salmoides	22	565	17.9%
Smallmouth Bass	Micropterus dolomieu	36	4	0.1%
Squawfish	Ptychocheilus grandis	10	181	5.7%
Striped Bass	Morone saxatilis	3	2,140	67.9%
White Catfish	Ameiurus catus	4	114	3.6%
Not Recorded	N/A	N/A	44	1.4%
<sup>1</sup> Now referred to as Sac	ramento pikeminnow	Total =	3,153	

	Samplir	ng Period		Numb	er of Each	Fish Species	(predator) S	Sampled per	Year		Yearly
Year	Month Start	Month End	Not Recorded	Brown Bullhead	Channe I Catfish	Largemouth Bass	Smallmouth Bass	Squaw fish <sup>1</sup>	Striped Bass	White Catfish	Totals
	Not Reco	rded	42						36		78
1987	May	June							9		9
1988	May	October			3		1	84	153	42	283
1989	April	June						16	29	10	55
1990	May	June						14	76	3	93
1991	April	June						31	153	10	194
1992	April	June	1					33	278		312
1993	January	December			24	68	1		711	1	805
1994	January	December	1	2	40	273	1	1	474	47	839
1995	January	December			36	224	1	2	221		484
1998	May	May								1	1

Table 3. Number of each predator sampled per year. Month sampling started and ended provided for comparison between years.

<sup>1</sup>Now referred to as Sacramento pikeminnow

Predator fork lengths were measured to the nearest millimeter (mm). Of the 3,153 predators, 3,025 were measured (Table 4). The average fork length for all predators never exceeded 400 mm. The length-range of striped bass was the broadest of any predator (165 - 1,060 mm FL).

Table 4. Predator minimum, maximum, and average fork length.

Predator	Number	Minimum Fork	Maximum Fork	Average Fork
Common Name	Measured	Length (mm)	Length (mm)	Length (mm)
Brown Bullhead	2	333	345	339
Channel Catfish	102	235	580	391
Largemouth Bass	565	192	567	334
Smallmouth Bass	4	270	365	309
Squawfish <sup>1</sup>	180	215	570	392
Striped Bass	2,059	165	1,060	365
White Catfish	113	170	449	284

<sup>1</sup>Now referred to as Sacramento pikeminnow

Collection of many striped bass and largemouth bass made possible the construction of lengthfrequency charts (Figures 1 and 2). Almost 80% of striped bass were between 250 and 449 mm FL. Almost 87% of largemouth bass were between 250 and 399 mm FL. Thirty-seven percent (n=209) of largemouth bass were between 300 and 349 mm FL.





Striped Bass Length-Frequency





Predators were collected from 40 different geographical areas within the San Francisco Estuary (Table 5). (Note: no further details about the recovery locations were provided in the database. Recovery location names are as they appear in the database.)

The majority of striped bass were collected in Clifton Court Forebay (CCF). About 43% of largemouth bass were collected in Middle River. Most squawfish were collected in the Montezuma Slough area.

Table 5. Recovery location for each predator
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				Fish Species (		mpled by Lo		
Recovery Location Names	Not Recorded	Brown Bullhead	Channel Catfish	Largemouth Bass	Smallmouth Bass	Squaw fish <sup>1</sup>	Striped Bass	White Catfish
Not Recorded	41						35	
сс	1						2	
ccc 1				1				
ccc 2				1				
ccc 4		1		1				
ccc cb/4				1				
ccc mc 1					1			1
ccc mc 1/2				5				
ccc mc 3				2				
ccc mc 3/4			3	4		And a faith of the		
ccc mw2							1	
ccc ne 6							2	
ccchw			1	1				
ccchw1			8	6				19
ccchw2			2	4				9
ccchw3			5	1				12
ccchw4		1		4				3
cccmc3				3				
CCF			8	8	1	1	1,138	2
ccf area 1							42	
ccf area 2		b.		1	Ψ.		5	
ccf area 3			1	2			3	1
ccf area 4	1		8	7			3	
CCF Area 5			001 001 001 001				17	
ccf area 6			2				32	
Contra Costa Canal			3	15			19	2
Grant Line Canal			10	90			59	
Head of Old River	1		15	40	3	1	62	
m	1	b.						
Middle River	20 100 100 100 100 100 100 100 100 100 1	100.	13	244			13	
montezuma slough							10	
Montezuma Slough Down Stream	m					37	89	29
montezuma slough downstream						15	324	3
Montezuma slough Upstream	horbod web					126	255	33
Old River			23	92		1	29	
OLRA	Alcohological.		1	2				
OLRB				20				
TBP GLC				3				
TBP HORB				1				
TBP MIDRB				1				
TBP MIDRB2				5				
1Now referred to as Sacramento niken				-				

<sup>1</sup>Now referred to as Sacramento pikeminnow

Stomach contents were classified into one of 11 general categories (Table 6). Every general food item was identified at least once in striped bass stomachs.

Table 6.	General	food	categories.
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		Numb	per of Food	Items Identif	ied in Each	General Cate	gory	
General Category Food Items	Not Recorded	Brow n Bullhead	Channel Catfish	Largemouth Bass	Smallmouth Bass	Squaw fish <sup>1</sup>	Striped Bass	White Catfish
Bait							2	
Eggs							1	
Fish			3	48	1	25	541	5
Fish Unknown	1	3	64	422	3	114	1,959	41
Invert Known	1		79	213	1	35	971	59
Invert Unknown			3	7		9	69	18
Non Fish Vertebrate				5		4	10	
Miscellaneous		1	11	77		30	358	16
Other							3	
Shrimp				1		1	22	
Vegetation		1	80	337	1	58	989	76

<sup>1</sup>Now referred to as Sacramento pikeminnow

General food items were further classified into specific categories (Appendix 1). The number of stomachs (N) identified as having a specific food item was tallied per predatory fish species. Percent frequency of occurrence (% of Freq) was calculated using the following equation.

Percent Frequecy of Occurrence =	number of stomachs with specific food item	* 100
Fercent Frequecy of Occurrence –	number of stomachs analyzed	) 100

Percent frequency of occurrence for "Empty" indicated the percent of empty stomachs for each predator.

Prey fish from 13 families were identified (Appendix 1). Whenever possible, prey fish were identified to species. Invertebrate prey items were identified into one of 33 specific categories. Food items classified as vegetation were identified into one of 25 specific categories

Appendix 1. General and specific food items identified in predatory fish stomachs (Note: number below predator name is the number of stomachs analyzed for that predator.)

			Nu	nber of	Ston	achs (	Conta	ining F	ood Ite	em per	Each	Number of Stomachs Containing Food Item per Each Predator Species	or Spe	cies		
	Reco	Not Recorded	Bull	Brown Bullhead	Cha	Channel Catfish	Larg	Largemouth Bass	Small Bi	Smallmouth Bass	Squa	Squawfish	St.	Striped Bass	White Catfish	ite ish
Food Item General (in bold) Food Item Specific (below)	4	44		2	-	103		565		4	1	181	2,`	2,140	114	4
Empty	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Empty					e	2.9	49	8.7	-	25.0	47	26.0	173	8.1	19	16.7
Atherinidae	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Inland silverside							Ŧ	0.2					4	0.2		
Centrarchidae	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Bluegill Redear Sunfish							т и т	0.5 0.4					~	0.05		
warmourn Unidentifiable centrarchid							- ო	0.5					7	0.1	-	0.9
Clupeidae	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
American shad Threadfin shad American shad scales Threadfin shad scales Unidentifiable clupeid					2		- u -	0.2 0.9 0.2			<del>.</del>	0.6	10 53 1 1 1	0.5 2.5 0.05 0.05 0.5		
Cottidae	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Pacific staghorn sculpin Prickly sculpin							2	0.4			~	0.6	0 0	0.1 0.1		

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			Nur	nber of	Stom	achs Co	Number of Stomachs Containing Food Item per Each Predator Species	g Foo	d Item	per Ea	ich Pre	edator	Spec	ies		
	Rec N	Not Recorded	Bull	Brown Bullhead	Channel Catfish	ish	Largemouth Bass		Smallmouth Bass	uth	Squawfish	ish	Striped Bass	ed	White Catfish	e de
Food Item General (in bold) Food Item Specific (below)	7	44		5	103	ŋ	565		4		181		2,140	0	114	-
Unidentifiable cottid					۲	1.0	2 (	0.4			2	1.1	~	0.05		
Cyprinidae	z	% of Freq	z	% of Freq	z	% of Freq	х ш Z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Carp Golden shiner							ک ب	5					- v	0.05 0.1		
Splittail													ı <del>~</del>	0.05		
Unidentifiable cyprinid													~	0.05		
Gasterosteidae	z	% of Freq	z	% of Freq	z	% of Freq	х ш Z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Threespine stickleback											9	3.3	207	9.7	e	2.6
I hreespine stickleback bodies & bones								•					-	0.05		
Gobiidae	z	% of Freq	z	% of Freq	z	% of Freq	х ц Z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Chameleon goby							10	1.8	<del>.</del>	25.0	ი	5.0	48	2.2		
Yellowfin goby						Þ.	-	0.2			<del></del>	0.6	42	2.0	-	0.9
Unidentifiable gobiid							5	0.9			33	1.7	18	0.8		
Ictaluridae	z	% of Freq	z	% of Freq	z	% of Freq	х ц Z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Brown bullhead											-	0.6				
White catfish			-				20	0.4								
Unidentifiable ictalurid			-				-	0.2					~	0.05		
Percichthyidae	z	% of Freq	z	% of Freq	z	% of Freq	х ц z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Striped bass		₽			-	1.0	-	0.2			-	0.6	50	2.3		
Scales													9	0.3		

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			Nun	nber of	Stom	achs C	ontain	ing Fo	od Iter	n per E	ach F	Number of Stomachs Containing Food Item per Each Predator Species	r Spec	ies		
	Not Recorded	led	Brown Bullhead	wn ead	Channel Catfish	ish	Largemouth Bass	nouth	Smallmouth Bass	nouth ss	Squawfish	wfish	Striped Bass	ed ss	White Catfish	te sh
Food Item General (in bold) Food Item Specific (below)	44		0		103	33	565	Q	4		181	Σ	2,140	40	114	4
Unidentifiable percichthyid													~	0.05		
Percidae	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Bigscale logperch							-						7	0.3		
Petromyzontidae	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
River lamprey Unidentifiable petromyzontid													~ ∞	0.05 0.4		
Poecilidae (in database as Gambusia)	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Western mosquitofish						K							2	0.1		
Salmonidae	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Chinook salmon Steelhead rainbow trout													- 5	0.2 0.05		
Fish Unknown	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Bones Digested					4	3.9	24	4.2 0.4			9	3.3	38 553	1.8 25.8	9	5.3
Digested Material Eggs					2	6.8	27 3	4.8 0.5			6 -	5.5 0.6	3 12 3	0.6 0.1	0	1.8
Fish Body					•	( ,	1	c			c	c	ω (	0.4	c	C 7
Fiesn Fish Meat Larvae (w/yoke sac)					<del></del>	0.1	21	3.0			٥	n N	<u>, v -</u>	0.0 0.1 0.05	N	<u>α</u> .

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			N	Number of Stomachs Containing Food Item per Each Predator Species	f Storr	achs C	contail	ning Fo	od Ite	m per E	ach F	redato	or Spec	cies		
	Rec	Not Recorded	n Bul	Brown Bullhead	Cha Cat	Channel Catfish	Large Ba	Largemouth Bass	Smallmouth Bass	allmouth Bass	Squa	Squawfish	Stri Ba	Striped Bass	Cat	White Catfish
Food Item General (in bold) Food Item Specific (below)	7	44		7	7	103	2	565		4	18	181	2,1	2,140	<del>, -</del>	114
Other fish parts	~	2.3	-	50.0	23	22.3	140	24.8	2	50.0	18	9.9	485	22.7	~	0.9
Scales					ი	8.7	ઝ	5.5	-	25.0	71	39.2	571	26.7	19	16.7
Teeth			-	50.0			4	0.7					ß	0.2	7	1.8
Unidentifiable			~	50.0	20	19.4	165	29.2	<i>7</i>		7	1.1	212	9.9	ω	7.0
Unidentifiable w/egg mass													-	0.05		
Vertebral column							6	1.6					55	2.6	~	0.9
Eggs	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Shad													-	0.05		
Invert Known	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Amphipods					38	36.9	53	9.4	~	25.0	4	2.2	373	17.4	18	15.8
Annelid							~	0.2					23	1.1		
Chirnomids						4							4	0.2		
Chironomids	<i>y</i>				Ŧ	10.7	ო	0.5					39	1.8	7	6.1
Cladocerans							~	0.2					1	0.5		
Clam					ო	2.9	ო	0.5					27	1.3	2	1.8
Coleoptera Larvae		¢											4	0.2		
Copepod													~	0.05		
Crab													7	0.3	2	1.8
crayfish					ω	7.8	94	16.6					7	0.3		
Crayfish parts			1										-	0.05		
Crustaceans					-	1.0	ო	0.5			10	5.5	119	5.6	10	8.8
Daphnids		►			~	1.0	ო	0.5					13	0.6	~	0.9

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		Number o	Number of Stomachs Containing Food Item per Each Predator Species	s Contai	ning Fo	od Item pe	er Each	Predato	or Spe	cies		
	Not Recorded	Brown Bullhead	Channel Catfish	Large	Largemouth Bass	Smallmouth Bass		Squawfish	Stri Ba	Striped Bass	White Catfish	ite ish
Food Item General (in bold) Food Item Specific (below)	44	N	103	Q	565	4	¢-	181	2,1	2,140	114	4
Decapod				7	1.2				9	0.3		
Decapod parts					7				7	0.1		
Diptera									~	0.05		
Hymenoptera Larvae					4				~	0.05		
Insect			8 7.8	3 25	4.4		2	2.8	114	5.3	9	5.3
Isopod				2	0.4		-	0.6	7	0.3	7	1.8
leech			1 1.0	5	0.9				с	0.1	~	0.9
Mysids				5	0.9		12	6.6	133	6.2	4	3.5
Nematode				2	0.4				7	0.3		
Neo shells									~	0.05		
Neomysis					A				~	0.05		
Neos									49	2.3		
Ostracods	V								~	0.05		
Rotifers									2	0.1		
Shrimp									2	0.1		
snail			4 3.9	-	0.2				~	0.05	4	3.5
tapeworm									~	0.05		
Worm	1 2.3		3 2.9	4	0.7		-	0.6	ი	0.4	2	1.8
Worms									~	0.05		
Unidentifiable			1 1.0	1	0.2		2	1.1	ю	0.1		
Invert Unknown	N % of Freq	N % of Freq	N % of Freq	z	% of Freq	N % of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Unidentifiable			1 1.0	-	0.2		-	0.6	29	1.4	2	1.8
Annelid	*								~	0.05		

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			Numbe	r of Stc	machs	Conta	Number of Stomachs Containing Food Item per Each Predator Species	od Iter	n per E	ach P	redato	r Spec	cies		
	Not Recorded	σ	Brown Bullhead		Channel Catfish	Larg	Largemouth Bass	Smallmouth Bass	nouth is	Squawfish	vfish	Striped Bass	striped Bass	Cat	White Catfish
Food Item General (in bold) Food Item Specific (below)	44		7		103		565	4		181	5	2,1	2,140	÷	114
Coleoptera Larvae												-	0.05		
Digested Material												с	0.1		
Insect					ų	Þ.				4	2.2	7	0.1	-	0.9
Pincher claws						-	0.2					~	0.05		
Unidentifiable				2	1.9	5	0.9			4	2.2	32	1.5	15	13.2
Miscellaneous	N Fr	% of Freq	N % of Freq	z d	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Unidentifiable						-	0.2								
Digested												~	0.05		
Digested Material						8	1.4			24	13.3	198	9.3	4	3.5
dirt			Á	-	1.0	6	1.6					4	0.2		
Eggs						/						с	0.1		
Hair												7	0.1		
OTHER				6	8.7	26	4.6					7	0.1	6	7.9
Paint Chip												~	0.0		
Paint Chips						2	0.4					S	0.2		
Plastic												~	0.05		
Rocks		4				4	0.7					45	2.1		
Sand						с	0.5			-	0.6	40	1.9	-	0.9
Tar pieces												~	0.05		
Unidentifiable	4		1 50.0	.0	1.0	24	4.2			5	2.8	55	2.6	7	1.8
Non Fish Vertebrate	N Fr	% of Freq	N % of Freq	N of	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
hairs										7	1.1	ω	0.4		

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Metadata	

			Nur	Number of Stomachs Containing Food Item per Each Predator Species	f Stom	achs C	ontain	ing Foo	od Iten	n per E	ach P	redato	r Spec	ies		
	Rec	Not Recorded	Bull	Brown Bullhead	Channel Catfish	ish	Largemouth Bass	nouth	Smallmouth Bass	iouth s	Squawfish	/fish	Striped Bass	oed ss	White Catfish	te ish
Food Item General (in bold) Food Item Specific (below)	7	44		5	103	ŋ	565	2	4		181	<del>~</del>	2,140	40	114	4
Unidentifiable							5	0.9			2	1.1	2	0.1		
Other	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Mucus										4			з	0.1		
Shrimp	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Crangon Grass Blades														0.05 0.05		
Unidentifiable							-	0.2			-	0.6	20	0.9		
Bait	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Anchovy Shrimp														0.0		
Vegetation	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
Algae Amphipods Bark Blades					13	12.6	26	4.6			ω	4.4	129 2 7	6.0 0.1 0.5 0.3	1	9.6
Digested Material					4	0	- K	0.2 3.5			~ ~	0.6	- 20	0.05 1 8	0 4	3.5 5.5
Fibers						0	- 1	0.2			5	1.1	31	1.4	~ ~	1.8
grass Grass Blades Grass like strands					Ŋ	4.9	ω	1.4			12	6.6	16 6 10	0.7 0.3 0.5	4	3.5

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			Number of Stomachs Containing Food Item per Each Predator Species	of Stoi	nachs (	ontain	ing Foc	d Iten	n per E	ach P	redato	r Spec	ies		
	Not Recorded	led	Brown Bullhead	ភូល	Channel Catfish	Largemouth Bass	iouth S	Smallmouth Bass	outh s	Squawfish	vfish	Striped Bass	oed SS	Cat	White Catfish
Food Item General (in bold) Food Item Specific (below)	44		Ν	· ·	103	565	10	4		181	Ť	2,140	40	÷	114
Leaves				-	1.0	30	5.3			6	5.0	133	6.2	в	2.6
Melosira				14	13.6	15	2.7					2	0.1	23	20.2
som				ო	2.9	-	0.2			ო	1.7	10	0.5	9	5.3
Mysids				4								~	0.05		
Plants												53	2.5		
Seed pod												~	0.05		
Seeds										2	1.1				
spirogyra						12	2.1							4	3.5
Stems						~	1.2			4	2.2	99	3.1		
Sticks				3	2.9	19	3.4			7	1.1	69	3.2		
Unidentifiable			Á	20	19.4	115	20.4			6	5.0	364	17.0	14	12.3
Weeds				13	12.6	56	9.9	-	25.0			7	0.1		
Wood			1 50.0	3	2.9	26	4.6			5	2.8	35	1.6	ო	2.6
Wood bits												4	0.2		
Unidentifiable				~	1.0										
No General Category	z	% of Freq	N % of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq	z	% of Freq
(none given) Unidentifiable				~	1.0							43	2.0 0.1		

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