

TABLE 3-4 ESTIMATED MONTHLY IMPINGEMENT RATE (BASED ON AVERAGE DAILY RATE*) AT JAMES A. FITZPATRICK NUCLEAR POWER PLANT, 1991

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
No. of Samples	4	4	4	16	27	4	5	6	4	4	4	4	79
SPECIES													
Alewife	--	--	132	47,018	15,940	8,992	744	300	60	294	90	31	73,601
Rainbow smelt	5,642	1,065	597	9,973	9,029	1,755	676	522	202	8	3,015	1,542	34,046
Spottail shiner	372	105	659	514	1,144	218	62	5	15	78	330	16	3,518
Trout-perch	16	7	8	251	1,455	562	68	5	8	16	98	16	2,510
Bluegill	--	--	--	2	--	--	--	--	--	16	6,069	85	6,171
Threespine stickleback	155	420	46	163	254	120	6	--	--	--	1,353	426	2,940
Sculpins	54	63	39	296	169	225	--	21	--	23	15	--	905
Tessellated darter	8	--	--	32	200	698	124	227	30	16	--	--	1,335
Crayfish	62	21	62	124	29	60	12	10	30	8	518	54	990
White perch	659	168	8	24	64	--	--	--	--	--	--	232	1,035
Gizzard shad	147	14	16	4	2	--	12	--	--	--	--	232	563
Stonecat	--	--	23	30	48	150	43	88	82	8	68	23	590
Yellow perch	31	14	--	11	20	15	12	5	15	--	428	39	590
Rock bass	70	21	23	8	6	30	6	16	38	8	98	108	432
Smallmouth bass	54	--	8	2	11	45	--	10	15	--	120	--	265
Central mudminnow	16	--	194	4	--	--	--	--	--	--	--	--	214
White bass	39	28	8	4	--	--	--	--	--	--	110	--	191
White sucker	--	--	--	--	6	45	25	21	8	31	--	16	152
Emerald shiner	78	84	--	--	--	8	--	--	--	--	--	--	176
Crayfish (damaged)	--	--	8	--	2	--	81	21	8	--	--	--	120
Lake trout	8	7	8	--	8	15	6	--	--	8	--	8	68
Brown trout	--	--	8	--	6	--	--	--	--	8	--	39	61
Walleye	--	7	--	--	--	8	12	5	15	8	--	8	63
Largemouth bass	--	--	--	--	--	--	--	--	--	--	60	8	68
Golden shiner	--	--	--	2	2	15	19	--	--	--	--	--	38
Lake chub	--	--	--	4	6	--	--	--	--	--	--	8	18

NOTE: Dashes (--) indicate no catch made.

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TABLE 3-4 (Cont.)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
SPECIES (Cont.)													
Pumpkinseed	—	—	—	2	—	—	—	10	—	—	8	23	43
Longnose dace	8	—	8	—	—	—	—	—	—	—	—	—	45
Channel catfish	31	—	—	4	—	—	—	—	—	—	—	—	35
Burbot	—	7	—	2	2	—	—	—	—	—	—	8	19
Clam	16	14	—	—	—	—	—	—	—	—	—	—	30
Rainbow smelt (damaged)	—	—	—	—	—	—	—	—	—	21	—	—	31
Brown bullhead	—	—	—	2	—	—	6	—	—	8	—	—	16
Chinook salmon	—	—	—	2	2	8	—	—	—	—	—	—	12
American eel	—	—	—	—	—	15	—	—	—	—	—	—	15
Brook stickleback	—	—	—	4	—	—	—	—	—	—	—	—	4
Freshwater drum	16	—	—	—	—	—	—	—	—	—	—	—	16
Lake herring	—	—	—	2	2	—	—	—	—	—	—	—	4
Rainbow trout	8	—	—	—	—	—	6	—	—	—	—	—	14
Brook silverside	8	—	—	—	—	—	—	—	—	—	—	—	8
Carp	—	—	—	—	—	—	6	—	—	—	—	—	6
Northern pike	—	—	—	—	—	—	—	5	—	—	—	—	5
Sea lamprey	—	—	—	2	—	—	—	—	—	—	—	—	2
<i>Ictalurus</i> sp. (damaged)	—	—	—	2	—	—	—	—	—	—	—	—	2
Sea lamprey (damaged)	—	—	—	2	—	—	—	—	—	—	—	—	2
Tessellated darter (damaged)	—	—	—	—	—	—	—	—	—	—	—	6	8
Grass pickerel	—	—	—	—	2	—	—	—	—	—	—	—	2
Mudpuppy	—	—	—	—	2	—	—	—	—	—	—	—	2
Atlantic salmon	—	—	—	—	2	—	—	—	—	—	—	—	2
Shortnead redhorse sucker	—	—	—	—	—	—	—	5	—	—	—	—	5
TOTAL	7,498	2,086	1,855	58,490	28,413	12,984	1,926	1,276	526	569	13,196	2,729	131,548

TABLE 3-4 ESTIMATED MONTHLY IMPINGEMENT RATE (BASED ON AVERAGE DAILY RATE*) AT JAMES A. FITZPATRICK NUCLEAR POWER PLANT, 1991

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
No. of Samples	4	4	4	16	20	4	5	6	4	4	4	4	79
SPECIES													
Alewife	---	---	132	47,018	15,940	8,992	744	300	60	294	90	31	73,601
Rainbow smelt	5,642	1,085	597	9,973	9,029	1,755	676	522	202	8	3,015	1,542	34,046
Spottail shiner	372	105	659	51	1,144	218	2	5	15	78	330	16	3,518
Trout-perch	16	7	8	2	1,455	562	6	5	8	16	98	16	2,510
Bluegill	---	---	---	---	---	---	---	---	---	16	6,068	85	6,171
Threespine stickleback	155	420	46	163	254	120	6	---	---	---	1,350	426	2,940
Sculpins	54	63	39	296	169	225	---	21	---	23	15	---	905
Tessellated darter	8	---	---	32	200	698	124	227	30	16	---	---	1,335
Crayfish	62	21	62	124	29	60	12	10	30	8	518	54	990
White perch	659	163	8	24	64	---	---	---	---	---	210	23	1,156
Gizzard shad	147	14	15	4	2	---	12	---	---	---	608	232	1,035
Stonecat	---	---	23	30	48	150	43	88	82	8	68	23	563
Yellow perch	31	14	---	11	20	15	12	5	15	---	428	39	590
Rock bass	70	21	23	8	6	30	6	16	38	8	98	108	432
Smallmouth bass	54	---	8	2	11	45	---	10	15	---	120	---	265
Central mudminnow	16	---	194	4	---	---	---	---	---	---	---	---	214
White bass	39	28	8	4	---	---	---	---	---	---	112	---	191
White sucker	---	---	---	---	6	45	25	21	8	31	---	16	152
Emerald shiner	78	84	---	---	---	8	---	---	---	---	---	---	170
Crayfish (damaged)	---	---	8	---	2	---	81	21	8	---	---	---	120
Lake trout	8	7	8	---	8	15	6	---	---	8	---	8	68
Brown trout	---	---	8	---	6	---	---	---	---	8	---	39	61
Walleye	---	7	---	---	---	8	12	5	15	8	---	8	63
Largemouth bass	---	---	---	---	---	---	---	---	---	---	(4)	8	58
Golden shiner	---	---	---	2	2	15	9	---	---	---	---	---	38
Lake chub	---	---	---	4	6	---	---	---	---	---	---	8	18

NOTE: Dashes (---) indicate no catches made.

TABLE 3-4 (Cont.)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual Total
SPECIES (Cont.)													
Pumpkinseed	--	--	--	2	--	--	--	10	--	--	8	23	43
Longnose dace	8	21	8	--	--	--	--	--	--	--	--	8	45
Channel catfish	31	--	--	4	--	--	--	--	--	--	--	--	35
Burbot	--	7	--	2	2	--	--	--	--	--	--	8	19
Clam	16	14	--	--	--	--	--	--	--	--	--	--	30
Rainbow smelt (damaged)	--	--	--	--	--	--	--	--	--	31	--	--	31
Brown bullhead	--	--	--	2	--	--	6	--	--	8	--	--	16
Chinook salmon	--	--	--	2	2	8	--	--	--	--	--	--	12
American eel	--	--	--	--	--	15	--	--	--	--	--	--	15
Brook stickleback	--	--	--	4	--	--	--	--	--	--	--	--	4
Freshwater drum	16	--	--	--	--	--	--	--	--	--	--	--	16
Lake herring	--	--	--	2	2	--	--	--	--	--	--	--	4
Rainbow trout	8	--	--	--	--	--	6	--	--	--	--	--	14
Brook silverside	8	--	--	--	--	--	--	--	--	--	--	--	8
Carp	--	--	--	--	--	--	6	--	--	--	--	--	6
Northern pike	--	--	--	--	--	--	--	5	--	--	--	--	5
Sea lamprey	--	--	--	2	--	--	--	--	--	--	--	--	2
<i>Ictalurus</i> sp. (damaged)	--	--	--	2	--	--	--	--	--	--	--	--	2
Sea lamprey (damaged)	--	--	--	2	--	--	--	--	--	--	--	--	2
Tessellated darter (damaged)	--	--	--	--	--	--	--	--	--	--	--	8	8
Grass pickerel	--	--	--	--	2	--	--	--	--	--	--	--	2
Mudpuppy	--	--	--	--	2	--	--	--	--	--	--	--	2
Atlantic salmon	--	--	--	--	2	--	--	--	--	--	--	--	2
Shorthead redhorse sucker	--	--	--	--	--	--	--	5	--	--	--	--	5
TOTAL	7,498	2,086	1,855	58,490	28,413	12,984	1,926	1,276	526	569	13,196	2,729	131,548