

Table 13. Estimated summer flounder discard at age in the in the commercial fishery. Lengths converted to age using annual Northeast Fisheries Science Center trawl survey age-length keys. Includes an assumed 80% discard mortality rate. Includes NEFSC At-Sea Monitoring data for 2010-2011.

Discard numbers at age ('000)						
Year	Gear	0	1	2	3+	Total
1989	All	775	1,628	94	0	2,497
1990	All	1,441	2,755	67	0	4,263
1991	All	891	3,424	<1	0	4,315
1992	All	1,155	1,544	36	3	2,738
1993	All	1,041	1,532	179	1	2,753
1994	Trawl	571	1,014	95	0	1,680
	Scallop	0	663	398	36	1,097
	All	571	1,677	493	36	2,777
1995	Trawl	141	294	58	2	495
	Scallop	0	114	148	20	282
	All	141	408	206	22	777
1996	Trawl	23	417	167	56	663
	Scallop	<1	221	72	5	298
	All	23	638	239	61	961
1997	Trawl	8	215	203	50	476
	Scallop	0	34	98	22	154
	All	8	249	301	72	630
1998	Trawl	26	132	146	95	399
	Scallop	1	42	73	52	168
	All	27	174	219	157	567
1999	Trawl	95	1,159	1,012	255	2,521
	Scallop	1	64	239	176	480
	All	96	1,223	1,251	431	3,001
2000	Trawl	20	118	378	303	819
	Scallop	2	46	82	49	179
	All	22	164	460	352	998
2001	Trawl	11	86	56	128	281
	Scallop	0	13	50	142	205
	All	11	99	106	270	486
2002	Trawl	12	94	137	106	349
	Scallop	1	30	83	63	177
	All	13	124	220	169	526

Table 13, continued. Estimated summer flounder discard at age in the in the commercial fishery. Lengths converted to age using annual Northeast Fisheries Science Center (NEFSC) trawl survey age-length keys. Includes an assumed 80% discard mortality rate. Includes NEFSC At-Sea Monitoring data for 2010-2011.

Discard numbers at age ('000)						
Year	Gear	0	1	2	3+	Total
2003	Trawl	2	221	208	84	515
	Scallop	0	43	48	20	111
	All	2	264	256	104	626
2004	Trawl	1	25	70	70	166
	Scallop	<1	14	64	27	105
	All	2	39	134	98	271
2005	Trawl	4	33	44	65	146
	Scallop	<1	8	52	40	100
	All	4	41	96	105	246
2006	Trawl	4	38	102	82	226
	Scallop	<1	11	79	34	124
	All	4	49	181	115	350
2007	Trawl	9	26	29	108	172
	Scallop	<1	3	51	55	109
	All	9	29	80	163	281
2008	Trawl	3	46	37	113	199
	Scallop	<1	7	16	71	95
	All	2	53	53	184	294
2009	Trawl	2	15	42	53	112
	Scallop	0	1	4	9	13
	All	2	16	46	61	125
2010	Trawl	13	58	78	100	249
	Scallop	1	5	8	20	34
	All	14	63	86	120	283
2011	Trawl	3	19	62	71	155
	Scallop	<1	3	13	24	40
	All	3	23	74	95	196

Table 14. Estimated summer flounder discard mean length at age in the commercial fishery. Lengths converted to age using Northeast Fisheries Science Center (NEFSC) trawl survey age-length keys.

Discard mean length (cm) at age						
Year	Gear	0	1	2	3+	All
1989	All	25.9	31.5	44.2		30.2
1990	All	29.0	31.7	38.9		30.9
1991	All	24.0	30.9	37.0		29.5
1992	All	29.3	30.0	36.6	51.2	29.8
1993	All	30.0	32.5	34.8	55.0	31.7
1994	Trawl	26.0	31.3	34.5		29.7
	Scallop		30.8	38.2	52.1	34.2
	All	26.0	31.1	37.5	52.1	31.5
1995	Trawl	29.6	29.4	37.0	50.9	30.4
	Scallop		30.7	40.6	52.4	37.4
	All	29.6	29.8	39.6	52.5	33.0
1996	Trawl	28.9	32.0	38.1	55.8	35.5
	Scallop	31.4	30.7	38.2	48.5	32.8
	All	29.0	31.6	38.1	55.2	34.7
1997	Trawl	26.9	32.1	37.8	46.6	36.0
	Scallop		32.5	37.2	45.9	37.5
	All	26.9	32.2	37.6	46.3	36.4
1998	Trawl	26.0	32.5	37.5	48.3	37.7
	Scallop	30.0	35.0	39.7	48.9	41.3
	All	26.1	33.1	38.2	48.5	38.8
1999	Trawl	25.8	32.0	35.9	48.5	34.9
	Scallop	31.0	33.2	36.3	48.8	40.5
	All	25.9	32.1	36.0	48.6	35.9
2000	Trawl	17.2	32.6	37.7	46.3	39.5
	Scallop	26.8	34.4	39.5	47.6	40.3
	All	18.1	33.2	38.0	46.5	39.6
2001	Trawl	22.9	33.7	39.6	47.7	40.8
	Scallop		37.1	40.6	49.1	46.3
	All	22.9	34.2	40.1	48.5	43.1
2002	Trawl	27.7	32.4	37.6	53.6	40.7
	Scallop	27.7	35.1	39.1	48.1	41.5
	All	27.7	33.1	38.1	51.6	41.0

Table 14, continued. Estimated summer flounder discard mean length at age in the commercial fishery. Lengths converted to age using Northeast Fisheries Science Center (NEFSC) trawl survey age-length keys.

Discard mean length (cm) at age						
Year	Gear	0	1	2	3+	All
2003	Trawl	27.4	33.6	38.3	54.4	38.9
	Scallop		34.6	40.1	50.1	39.7
	All	27.4	33.8	38.6	53.6	39.0
2004	Trawl	28.4	33.6	38.8	51.8	43.4
	Scallop	29.1	32.9	37.9	47.4	39.7
	All	28.5	33.3	38.4	50.6	42.0
2005	Trawl	28.4	33.3	38.7	52.3	43.3
	Scallop	30.7	31.2	37.2	46.9	40.6
	All	28.4	32.9	37.9	50.3	42.2
2006	Trawl	25.8	33.9	37.6	50.5	41.4
	Scallop	25.0	33.9	36.2	43.9	38.1
	All	25.8	33.9	37.0	48.6	40.3
2007	Trawl	26.1	32.8	41.1	51.4	45.5
	Scallop	24.3	31.6	38.2	44.5	41.2
	All	26.1	32.7	39.3	49.0	43.8
2008	Trawl	25.2	30.0	36.0	52.3	43.7
	Scallop	27.1	32.9	38.2	50.2	46.8
	All	25.4	30.4	36.7	51.5	44.7
2009	Trawl	26.1	31.2	35.7	49.4	41.1
	Scallop		29.7	36.4	47.2	42.7
	All	26.1	31.1	35.8	49.1	41.6
2010	Trawl	27.5	31.7	35.4	45.6	38.2
	Scallop	27.0	32.2	36.8	45.0	40.7
	All	27.5	31.7	35.5	45.5	38.5
2011	Trawl	27.4	31.8	34.4	43.3	38.0
	Scallop	29.6	30.7	34.9	42.2	38.9
	All	27.4	31.6	34.5	43.0	38.2

Table 15. Estimated summer flounder discard mean weight at age in the in the commercial fishery. Lengths converted to age using Northeast Fisheries Science Center (NEFSC) trawl survey age-length keys.

Discard mean weight (kg) at age						
Year	Gear	0	1	2	3+	All
1989	All	0.182	0.296	0.909		0.284
1990	All	0.235	0.304	0.559		0.285
1991	All	0.124	0.275	0.491		0.244
1992	All	0.238	0.256	0.498	1.450	0.252
1993	All	0.253	0.332	0.413		0.307
1994	Trawl	0.177	0.291	0.392		0.258
	Scallop		0.287	0.565	1.565	0.430
	All	0.177	0.289	0.532	1.565	0.326
1995	Trawl	0.244	0.242	0.522	1.505	0.280
	Scallop		0.281	0.702	1.604	0.595
	All	0.244	0.253	0.651	1.597	0.395
1996	Trawl	0.226	0.312	0.586	2.004	0.521
	Scallop	0.305	0.274	0.572	1.254	0.363
	All	0.227	0.299	0.582	1.937	0.472
1997	Trawl	0.178	0.327	0.560	1.088	0.504
	Scallop		0.331	0.553	1.044	0.558
	All	0.178	0.328	0.558	1.075	0.517
1998	Trawl	0.158	0.332	0.533	1.346	0.637
	Scallop	0.247	0.421	0.651	1.357	0.808
	All	0.161	0.353	0.572	1.350	0.688
1999	Trawl	0.156	0.317	0.462	1.300	0.468
	Scallop	0.275	0.355	0.478	1.310	0.767
	All	0.157	0.319	0.465	1.304	0.516
2000	Trawl	0.055	0.355	0.555	1.114	0.722
	Scallop	0.174	0.412	0.643	1.023	0.741
	All	0.066	0.371	0.571	1.138	0.725
2001	Trawl	0.114	0.373	0.642	1.210	0.797
	Scallop		0.510	0.692	1.339	1.127
	All	0.114	0.391	0.665	1.278	0.936
2002	Trawl	0.194	0.331	0.538	1.851	0.871
	Scallop	0.195	0.429	0.608	1.235	0.795
	All	0.194	0.355	0.565	1.623	0.845

Table 15, continued. Estimated summer flounder discard mean weight at age in the in the commercial fishery. Lengths converted to age using Northeast Fisheries Science Center (NEFSC) trawl survey age-length keys.

Discard mean weight (kg) at age						
Year	Gear	0	1	2	3+	All
2003	Trawl	0.186	0.371	0.583	1.871	0.701
	Scallop		0.413	0.672	1.430	0.705
	All	0.186	0.378	0.600	1.788	0.701
2004	Trawl	0.220	0.386	0.599	1.625	0.996
	Scallop	0.223	0.352	0.554	1.234	0.698
	All	0.220	0.374	0.578	1.508	0.880
2005	Trawl	0.214	0.366	0.597	1.669	1.015
	Scallop	0.268	0.290	0.520	1.162	0.752
	All	0.214	0.351	0.555	1.480	0.908
2006	Trawl	0.157	0.382	0.547	1.505	0.860
	Scallop	0.137	0.374	0.468	0.976	0.597
	All	0.157	0.380	0.513	1.352	0.767
2007	Trawl	0.161	0.338	0.717	1.548	1.152
	Scallop	0.133	0.302	0.558	0.962	0.755
	All	0.161	0.334	0.616	1.349	0.998
2008	Trawl	0.147	0.269	0.462	1.687	1.109
	Scallop	0.179	0.353	0.566	1.481	1.233
	All	0.151	0.281	0.493	1.608	1.149
2009	Trawl	0.164	0.297	0.445	1.452	0.896
	Scallop		0.250	0.480	1.211	0.922
	All	0.164	0.295	0.448	1.420	0.898
2010	Trawl	0.194	0.304	0.429	1.150	0.677
	Scallop	0.182	0.325	0.490	1.028	0.776
	All	0.193	0.306	0.435	1.129	0.689
2011	Trawl	0.194	0.311	0.393	1.000	0.657
	Scallop	0.245	0.281	0.417	0.839	0.659
	All	0.195	0.307	0.397	0.959	0.658