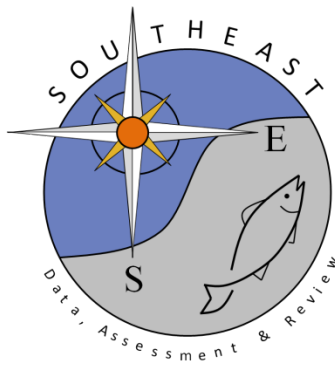


General Recreational Survey Data for Hogfish in the Gulf of America and South Atlantic

Samantha M. Binion-Rock

SEDAR94-DW-05

11 July 2025



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SEDAR 94-DW-05

General Recreational Survey Data for Hogfish in the Gulf of America and South Atlantic

NOAA Fisheries
Southeast Fisheries Science Center
Sustainable Fisheries Division
Data Analysis and Assessment Support Branch

Samantha M. Binion-Rock

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- General recreational catch estimates for Red Snapper are compiled from the following separate sampling programs:
 1. Marine Recreational Information Program (MRIP) (SEDAR68-DW-13)
 2. Texas Parks and Wildlife Department (TPWD) (SEDAR70-WP-03)
 3. Louisiana Creel survey program (LA Creel; 2014+)
 - The Louisiana Biological sampling program (LA BIO) does not prioritize sampling of Hogfish. Size and age data from Louisiana (2014+) are not available for this assessment.
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As part of the SEDAR stock assessment process, the data/estimates provided in this working paper may be updated based on discussions and recommendations of the Recreational Working Group. Please refer to the recreational section of the Data Workshop report for details on those estimates ultimately used in this assessment.

Parameters for data prepared for SEDAR 94 recreational catch data:

- Species: Hogfish
- Year Range: 1981 - 2024
- Geographic Range: Atlantic and Gulf coast states from Texas to North Carolina. Spatial summaries for SEDAR 94 have been separated into distinct domains: ‘Outside of FL’ (Texas to North Carolina, excluding Florida), ‘WFS’ (the Florida panhandle to western Florida) and ‘Keys_EFL’ (the Florida Keys to northeastern Florida).
- Fishing Modes: Charter, Private, and Shore. Note, there were no landings or discards from Headboat (1981-85) in the Gulf of America.
- Weight Units: whole weight

- **MRIP Calibration:** Fully calibrated estimates that take into account the change in the Fishing Effort Survey (FES), the redesigned Access Point Angler Intercept Survey (APAIS), and the For-Hire Survey (FHS). These calibrations allow for estimates in the entire time series to be compared to one another.
- **MRIP Data Gaps from COVID:** Missing 2020 intercepts were imputed from all APAIS data collected in 2018 and 2019 from the same strata as the 2020 data gap, with original sample weights reduced by a factor of two to account for using two years of data (Cody 2021).
- **SEFSC Data QAQC:** Size records above an allowable (max size) threshold are excluded from average weight estimation and the summary tables included in this working paper (Tables 7-9). For SEDAR 94 Hogfish, this includes any weights heavier than 25.41 pounds.

Summary of Data Imputations

Estimate	Strata	Imputed	Rationale
Catch	1981 Wave1 (LA-FLE)	No	Limited Wave1 catch in 1982-1984, assume catch is 0
Catch	1981 - 1983 (Texas)	No	No Texas catch in 1983-1985, assume catch is 0
Discards	1981+ (Texas)	No	Limited discards in adjacent states, assume discards are 0
Discards	2014+ (Louisiana)	No	Limited discards in adjacent states, assume discards are 0
Effort	1981 Wave1 (TX-FLE)	Yes	Effort is not species-specific, need to account for effort in Wave1 before MRIP started
Effort	1981 - 1983 (Texas)	Yes	Effort is not species-specific, need to account for Texas effort in 1981-1983 before TPWD started

Catch and Sample Size Information for Particular Domains:

Annual estimates that appear relatively large/small compared to the adjacent years were further investigated by identifying and summarizing which strata were disproportionately contributing to the estimate. Estimates investigated are more likely to be high given the inherent zero-boundary constraint in catch data (≥ 0) that complicates identification of low estimates.

1981 landings estimate: 1,934,401 fish

- Stratum: FLW, Private, Wave 4, Ocean > 10 miles
 - Intercept Records: a total of 5 angler trips that resulted in a landings estimate of 839,777 fish (43% of the total annual estimate)
 - Three of the angler trips reported low numbers (n = 1, 2, and 2) of harvested Hogfish that were not seen by the interviewer.
 - Two trips reported large harvests of Hogfish that were seen by the interviewer. One trip reported 47 harvested Hogfish, 45 of which were seen by the interviewer. Another trip reported 30 harvested Hogfish and all of these fish were seen by the interviewer.
 - The majority of landed fish from this stratum were seen by the dockside sampler, suggesting species identifications were not influenced by angler recall and the number of fish harvested were accurately recorded.
 - There were only 31 intercepted trips that reported Hogfish landings in 1981, compared to over 100 intercepted trips in more recent years.

1982 discards estimate: 185,415 fish

- Stratum: NC, Private, Wave 3, Inland
 - Intercept Records: a total of 1 angler trip reported 40 released Hogfish that resulted in a discard estimate of 182,850 fish (99% of the total annual estimate)

1984 landings estimate: 9,679,535 fish

- Stratum: FLW, Private, Wave 6, Ocean ≤ 10 miles
 - Intercept Records: a total of 2 angler trips that resulted in a landings estimate of 8,894,747 fish (92% of the total annual estimate)
 - Both of the intercepted angler trips reported catching 100 Hogfish and the catches were not seen by the dockside sampler.

1988 discards estimate: 238,584 fish

- Stratum: FLW, Private, Wave 1, Ocean ≤ 10 miles
 - Intercept Records: a total of 3 angler trips that resulted in a discard estimate of 236,072 fish (99% of the total annual estimate)
 - Two of the intercepted trips reported 7 released Hogfish and one trip reported 6 released Hogfish. Sample weighting (e.g. WP_Catch) for these three trips is elevated.
 - There was only one other intercept in 1988 that reported discarded fish. This trip reported 1 released Hogfish.

2005 discards estimate: 156,871 fish

- Stratum: FLW, Private, Wave 1, Ocean > 10 miles
 - Intercept Records: a total of 2 angler trips that resulted in a discard estimate of 108,552 fish (69% of the total annual estimate)
 - Both of the intercepted trips reported 10 released Hogfish.
 - There were only 13 intercepted trips that reported released Hogfish in 2013.

2008 landings estimate: 725,573 fish

- Stratum: FLW, Private, Wave 3, Ocean > 10 miles
 - Intercept Records: a total of 11 angler trips that resulted in a landings/discard estimate of 277,149 fish (38% of the total annual estimate)
 - Hogfish from two of the intercepted trips were not seen by dockside samplers. One trip caught 2 Hogfish and the other trip caught 3 Hogfish.
 - The retained fish from nine of the intercepted trips were seen by the dockside samplers.
 - Two trips retained 1 Hogfish
 - Two trips retained 3 Hogfish
 - One trip retained 4 Hogfish
 - Two trips retained 5 Hogfish
 - Two trips retained 10 Hogfish
 - The sample weightings for four of these intercepts are elevated (including one of the trips with 10 retained Hogfish).
 - The retained catch from these nine trips were seen by the dockside sampler. This suggests species identifications were not influenced by angler recall and the number of fish harvested were accurately recorded.
 - Hogfish from nine of the intercepted trips were not seen by dockside samplers. One trip retained 2 Hogfish and the other trip retained 3 Hogfish.
- Stratum FLW, Private, Wave 6, Ocean > 10 miles
 - Intercept Records: a total of 11 angler trips that resulted in a landings/discard estimate of 215,162 fish (30% of the total annual estimate)
 - Caught fish from nine of the intercepted trips were not seen by dockside samplers.
 - Four trips caught 1 Hogfish.
 - One trip caught 2 Hogfish
 - Two trips caught 4 Hogfish
 - Two trips caught 5 Hogfish

- Two trips retained Hogfish that were seen by the dockside sampler. The first trip retained 1 Hogfish and the second trip retained 10 Hogfish.
- There were 84 intercepted trips in 2008 where the angler reported Hogfish landings. One intercept from FLW Private, Wave 3, Ocean > 10 miles contributed 18% to the total landings estimate for 2008, while no other intercept contributed more than 5%. This year appears to be well-sampled and the higher landings estimate appears indicative of a true trend.

2012 landings estimate: 734,877 fish

- Stratum FLW, Private, Wave 2, Ocean $\leq$ 10 miles
 - Intercept Records: a total of 3 angler trips that resulted in a landings estimate of 340,890 fish (46% of the total annual estimate)
 - All three intercepted fish had Hogfish catch that was not seen by the dockside sampler. Two trips caught 6 Hogfish and one trip caught 7 Hogfish. The two intercepts with 6 Hogfish contributed 15% to the total landings and the intercept with 7 Hogfish contributed 17%.
 - Across all strata, there were 101 intercepts where the angler reported Hogfish landings in 2012. All other intercepts contributed < 6% to the total landings. This year appears to be well-sampled and the higher landings estimate appears indicative of a true trend.

2015 landings estimate: 812,616 fish

- No landings from a single stratum contributed more than 30% to the total annual landings. There were 149 intercepted trips that reported Hogfish landings in 2015. Three intercepts contributed > 5% (e.g. 8%, 10%, and 12%) to the total landings, while all other intercepts contributed < 5%. The intercepts with the larger contributions had retained Hogfish catch between 8-12 fish that were seen by the dockside sampler. Hogfish landings appear to be well-sampled in 2015 and the landings estimate appears indicative of the true trend.

2023 discards estimate: 305,786 fish

- No discards from a single stratum contributed more than 30% to the total annual discard estimates. There were 99 intercepted trips that reported Hogfish discards in 2023. Three intercepts contributed > 5% (e.g. 6%, 7%, 16%) to the total discards while all other intercepts contributed < 5%. The intercepts with the larger contributions to Hogfish discards reported discarding 3 to 17 Hogfish. Hogfish discards appear to be well-sampled in 2023 and the discard estimate appears indicative of the true trend.

Discussion

Generally speaking, the strata investigated above from 1981-2005 are associated with years where there were lower numbers on intercepted trips where anglers reported Hogfish landings and discards. Variability in these estimates may be more reflective of the MRIP survey rather than capturing the true landings and discards trends. The strata investigated after 2005 appear to be well-sampled and have large numbers of intercepts reporting Hogfish landings and discards. Elevated catches in these years do appear to reflect the true trends and variability associated with Hogfish landings and discards.

Appendices

Appendix A. Additional Details of Survey Data and SEFSC Estimation

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Table 1.1. Annual landings (AB1) and discards (B2) of Hogfish in numbers of fish by state and year from all data sources (MRIP, LACreel 2014+, TPWD) for the **Outside of FL** domain (Texas through North Carolina, excluding Florida).

Year	TX		LA		MS		AL		GA		SC		NC		Total	
	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981			0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982			0	0	0	0	0	0	0	0	0	0	106,894	185,415	106,894	185,415
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	46,002	0	46,002
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	7,721	0	0	0	0	0	0	0	0	0	17,697	45,807	25,418	45,807
1986	0	0	0	379	0	0	0	0	0	0	0	0	12,487	49,265	12,487	49,644
1987	0	0	0	0	0	0	0	0	0	0	0	0	1,259	0	1,259	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	1,532	0	1,532	0
1989	0	0	0	0	0	0	0	0	0	0	69	0	305	140	374	140
1990	0	0	0	0	0	0	358	0	0	0	0	0	2,962	0	3,319	0
1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	3,140	0	0	0	0	0	0	455	0	455	3,140
1993	0	0	0	0	0	0	0	0	0	0	0	0	1,778	0	1,778	0
1994	0	0	0	0	0	0	0	0	0	0	0	0	109	0	109	0
1995	0	0	0	0	0	0	0	0	0	0	1,900	0	31,497	0	33,397	0
1996	0	0	0	0	0	4,928	0	0	0	0	0	0	0	583	0	5,511
1997	0	0	0	0	0	66	0	0	0	0	0	0	162	6,490	162	6,556
1998	0	0	0	0	0	0	0	0	1,903	0	0	0	0	0	1,903	0
1999	0	0	0	0	0	0	0	0	255	0	0	0	0	0	255	0
2000	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	43	0	3,215	0	3,259	0
2003	0	0	0	0	0	3,083	0	0	25	0	0	0	258	0	283	3,083

Year	TX		LA		MS		AL		GA		SC		NC		Total	
	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2
2004	0	0	0	0	0	0	0	0	0	0	0	0	454	0	454	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	1,917	0	1,917	0
2006	0	0	0	0	0	0	0	0	33	0	0	0	2,168	368	2,200	368
2007	0	0	0	0	0	0	0	0	0	0	748	0	0	4,568	748	4,568
2008	0	0	0	0	0	0	0	0	0	0	0	0	948	19,470	948	19,470
2009	0	0	0	0	0	0	0	0	0	0	31	0	444	0	475	0
2010	0	0	0	0	0	0	0	0	0	0	1,314	15	1545	11,512	2,859	11,527
2011	0	0	0	0	0	0	0	0	0	0	0	0	276	9,801	276	9,801
2012	0	0	0	0	0	0	0	0	0	0	0	0	1,990	195	1,990	195
2013	0	0	0	0	0	0	0	0	0	0	0	0	524	0	524	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	18,880	0	18,880
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	80	8	80	8
2017	0	0	0	0	0	0	0	0	0	0	0	0	3,650	0	3,650	0
2018	0	0	0	0	0	0	0	0	0	0	0	0	69	0	69	0
2019	0	0	0	0	0	0	0	0	0	0	0	0	101	1,822	101	1,821
2020	0	0	0	0	0	0	0	0	0	0	0	0	1,603	0	1,603	0
2021	0	0	0	0	0	0	0	0	0	0	0	0	9	0	9	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	25	0	25	0
2023	0	0	0	0	0	0	0	0	0	0	0	0	16	0	16	0
2024	0	0	0	0	0	0	0	0	0	0	0	0	4,733	0	4,733	0

Table 1.2. Annual landings (AB1) and discards (B2) of Hogfish in numbers of fish by state and year from all data sources (MRIP) for the **WFS** domain (the Florida panhandle through western Florida).

Year	FLW		Total	
	AB1	B2	AB1	B2
1981	58,163	0	58,163	0
1982	13,187	0	13,187	0
1983	19,922	0	19,922	0
1984	0	0	0	0
1985	0	0	0	0
1986	49,587	0	49,587	0
1987	99,746	6,828	99,746	6,828
1988	59,417	0	59,417	0
1989	109,262	3,471	109,262	3,471
1990	59,179	0	59,179	0
1991	148,305	0	148,305	0
1992	78,425	4,522	78,425	4,522
1993	91,847	0	91,847	0
1994	54,325	0	54,325	0
1995	104,008	4,797	104,008	4,797
1996	32,345	14,295	32,345	14,295
1997	68,428	758	68,428	758
1998	75,830	7,171	75,830	7,171
1999	97,333	9,699	97,333	9,699
2000	50,080	1,731	50,080	1,731
2001	94,891	0	94,891	0
2002	45,361	703	45,361	703
2003	120,509	964	120,509	964
2004	95,699	1,557	95,699	1,557
2005	57,482	5,687	57,482	5,687
2006	61,644	2,122	61,644	2,122
2007	75,683	549	75,683	549
2008	206,453	10,819	206,453	10,819
2009	115,761	6,632	115,761	6,632
2010	215,686	12,481	215,686	12,481
2011	107,647	1,512	107,647	1,512
2012	170,360	0	170,360	0
2013	241,845	7,081	241,845	7,081

Year	FLW		Total	
	AB1	B2	AB1	B2
2014	115,190	13,415	115,190	13,415
2015	104,062	1,373	104,062	1,373
2016	295,019	24,844	295,019	24,844
2017	113,078	37,274	113,078	37,274
2018	58,938	38,017	58,938	38,017
2019	62,472	42,949	62,472	42,949
2020	63,401	39,091	63,401	39,091
2021	68,174	60,485	68,174	60,485
2022	46,856	110,727	46,856	110,727
2023	154,142	189,913	154,142	189,913
2024	152,845	70,514	152,845	70,514

Table 1.3. Annual landings (AB1) and discards (B2) of Hogfish in numbers of fish by state and year from all data sources (MRIP) for the **Keys_EFL** domain (the Florida Keys through northeastern Florida).

Year	FL Keys		FLE		Total	
	AB1	B2	AB1	B2	AB1	B2
1981	1,296,114	0	580,124	0	1,876,238	0
1982	99,412	0	56,371	0	155,783	0
1983	77,187	0	205,417	0	282,604	0
1984	9,645,483	0	34,002	0	9,679,484	0
1985	241,325	0	12,139	0	253,464	0
1986	112,274	0	85,640	0	197,914	0
1987	351,182	2,809	48,717	0	399,899	2,809
1988	243,806	238,584	58,772	0	302,578	238,584
1989	234,308	5,558	11,461	0	245,769	5,558
1990	356,761	16,659	2,193	0	358,954	16,659
1991	102,426	0	25,994	0	128,420	0
1992	259,251	29,146	82,885	5,965	342,136	35,111
1993	294,031	5,496	97,746	0	391,776	5,496
1994	198,530	10,340	85,622	12,321	284,153	22,660
1995	155,928	68,495	73,863	2,144	229,790	70,639
1996	104,965	15,283	53,998	11,469	158,963	26,752
1997	68,766	11,748	26,692	0	95,458	11,748
1998	35,169	23,535	34,043	8,046	69,212	31,580
1999	73,186	19,732	66,704	12,797	139,890	32,529
2000	20,255	5,353	30,511	9,051	50,766	14,405
2001	37,656	8,102	63,440	1,950	101,096	10,052
2002	50,953	2,763	63,644	495	114,597	3,258
2003	113,048	20,083	80,843	5,655	193,892	25,737
2004	190,800	72,992	46,906	483	237,706	73,475
2005	201,631	147,396	32,542	3,788	234,173	151,184
2006	138,987	36,582	42,124	0	181,111	36,582
2007	180,381	54,474	81,315	3,094	261,697	57,568
2008	491,854	33,667	26,317	3,166	518,171	36,833
2009	297,966	10,374	59,550	0	357,516	10,374
2010	238,229	6,563	42,084	2,523	280,313	9,086
2011	84,588	2,289	33,207	1,477	117,795	3,767
2012	504,978	51,102	57,549	1,778	562,527	52,879
2013	129,201	28,852	71,895	26,435	201,095	55,287

Year	FL Keys		FLE		Total	
	AB1	B2	AB1	B2	AB1	B2
2014	232,223	74,349	175,502	18,759	407,725	93,108
2015	191,287	43,595	517,267	18,713	708,554	62,309
2016	153,832	34,287	179,766	4,675	333,598	38,963
2017	33,495	53,880	79,709	3,864	113,203	57,745
2018	1,853	29,565	25,174	13,484	27,027	43,049
2019	0	37,723	8,311	6,215	8,311	43,937
2020	4,893	40,057	8,229	4,562	13,122	44,619
2021	11,699	57,554	23,980	30,318	35,679	87,872
2022	13,471	54,286	16,364	23,308	29,835	77,594
2023	2,589	113,873	20,297	2,000	22,887	115,873
2024	0	41,617	22,904	5,543	22,904	47,160

Table 2.1. Annual landings (AB1) and discards (B2) of Hogfish in numbers of fish by mode and year from all data sources (MRIP, LACreel 2014+, TPWD) for the **Outside of FL** domain (Texas through North Carolina, excluding Florida). Note catch from the combined private-shore fishing mode in the LA Creel survey is added to the private mode.

Year	Shore		Cbt		Priv		Total	
	AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981	0	0	0	0	0	0	0	0
1982	94,062	0	0	0	12,832	185,415	106,894	185,415
1983	0	46,002	0	0	0	0	0	46,002
1984	0	0	0	0	0	0	0	0
1985	5,864	45,807	0	0	19,554	0	25,418	45,807
1986	7,678	15,355	0	0	4,809	34,289	12,487	49,644
1987	0	0	0	0	1,259	0	1,259	0
1988	0	0	1,532	0	0	0	1,532	0
1989	0	0	374	0	0	140	374	140
1990	2,649	0	0	0	671	0	3,319	0
1991	0	0	0	0	0	0	0	0
1992	0	3,140	216	0	240	0	455	3,140
1993	0	0	1,276	0	503	0	1,778	0
1994	0	0	109	0	0	0	109	0
1995	0	0	28,507	0	4,890	0	33,397	0
1996	0	583	0	0	0	4,928	0	5,511
1997	0	0	162	66	0	6,490	162	6,556
1998	0	0	1,903	0	0	0	1,903	0
1999	0	0	255	0	0	0	255	0
2000	0	0	33	0	0	0	33	0
2001	0	0	0	0	0	0	0	0
2002	0	0	3,259	0	0	0	3,259	0
2003	0	0	283	0	0	3,083	283	3,083
2004	0	0	0	0	454	0	454	0
2005	0	0	0	0	1,917	0	1,917	0
2006	0	0	33	0	2,168	368	2,200	368
2007	0	0	27	0	721	4,568	748	4,568
2008	0	19,470	5	0	943	0	948	19,470
2009	0	0	31	0	444	0	475	0
2010	0	1,222	84	15	2,775	10,290	2,859	11,527
2011	0	9,801	0	0	276	0	276	9,801
2012	0	0	40	0	1,950	195	1,990	195

Year	Shore		Cbt		Priv		Total	
	AB1	B2	AB1	B2	AB1	B2	AB1	B2
2013	0	0	101	0	422	0	524	0
2014	0	18,880	0	0	0	0	0	18,880
2015	0	0	0	0	0	0	0	0
2016	0	0	80	8	0	0	80	8
2017	0	0	0	0	3,650	0	3,650	0
2018	0	0	69	0	0	0	69	0
2019	0	1,143	101	0	0	679	101	1,821
2020	1,572	0	31	0	0	0	1,603	0
2021	0	0	9	0	0	0	9	0
2022	0	0	25	0	0	0	25	0
2023	0	0	16	0	0	0	16	0
2024	0	0	0	0	4,733	0	4,733	0

Table 2.2. Annual landings (AB1) and discards (B2) of Hogfish in numbers of fish by mode and year from all data sources (MRIP) for the **WFS** domain (the Florida panhandle through western Florida).

Year	Shore		Cbt		Priv		Total	
	AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981	0	0	0	0	58,163	0	58,163	0
1982	0	0	0	0	13,187	0	13,187	0
1983	0	0	0	0	19,922	0	19,922	0
1984	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0
1986	0	0	4,638	0	44,949	0	49,587	0
1987	0	0	1,163	0	98,583	6,828	99,746	6,828
1988	0	0	0	0	59,417	0	59,417	0
1989	0	0	1,962	0	107,300	3,471	109,262	3,471
1990	0	0	0	0	59,179	0	59,179	0
1991	0	0	0	0	148,305	0	148,305	0
1992	0	0	0	0	78,425	4,522	78,425	4,522
1993	0	0	0	0	91,847	0	91,847	0
1994	0	0	0	0	54,325	0	54,325	0
1995	0	2,648	0	0	104,008	2,149	104,008	4,797
1996	0	3,875	0	0	32,345	10,420	32,345	14,295
1997	6,566	0	0	0	61,863	758	68,428	758
1998	0	0	5,735	6,167	70,095	1,005	75,830	7,171
1999	0	0	803	0	96,530	9,699	97,333	9,699
2000	0	0	0	0	50,080	1,731	50,080	1,731
2001	7,201	0	335	0	87,355	0	94,891	0
2002	1,638	0	454	0	43,270	703	45,361	703
2003	0	0	675	0	119,835	964	120,509	964
2004	0	0	166	0	95,533	1,557	95,699	1,557
2005	0	0	353	0	57,129	5,687	57,482	5,687
2006	0	1,665	49	0	61,595	457	61,644	2,122
2007	0	549	936	0	74,747	0	75,683	549
2008	9,684	5,248	427	0	196,342	5,571	206,453	10,819
2009	2,137	2,056	802	0	112,822	4,576	115,761	6,632
2010	0	665	24,945	0	190,741	11,815	215,686	12,481
2011	0	0	2,783	0	104,864	1,512	107,647	1,512
2012	0	0	5,443	0	164,917	0	170,360	0
2013	0	0	490	0	241,355	7,081	241,845	7,081

Year	Shore		Cbt		Priv		Total	
	AB1	B2	AB1	B2	AB1	B2	AB1	B2
2014	8,195	0	3,401	1,914	103,594	11,501	115,190	13,415
2015	0	0	4,194	540	99,868	833	104,062	1,373
2016	0	0	11,981	78	283,038	24,766	295,019	24,844
2017	0	0	7,732	4,907	105,345	32,367	113,078	37,274
2018	0	0	15,762	13,009	43,175	25,008	58,938	38,017
2019	0	0	6,726	7,755	55,747	35,194	62,472	42,949
2020	0	0	10,161	11,438	53,240	27,653	63,401	39,091
2021	0	0	14,957	28,226	53,217	32,259	68,174	60,485
2022	0	0	8,234	22,656	38,622	88,070	46,856	110,727
2023	0	0	36,973	62,412	117,169	127,500	154,142	189,913
2024	0	5,060	15,546	14,086	137,299	51,367	152,845	70,514

Table 2.3. Annual landings (AB1) and discards (B2) of Hogfish in numbers of fish by mode and year from all data sources (MRIP) for the **Keys_EFL** domain (the Florida Keys through northeastern Florida).

Year	Shore		Cbt		Priv		Total	
	AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981	0	0	0	0	1,876,238	0	1,876,238	0
1982	0	0	0	0	155,783	0	155,783	0
1983	0	0	0	0	282,604	0	282,604	0
1984	58,989	0	40	0	9,620,456	0	9,679,484	0
1985	10,447	0	0	0	243,017	0	253,464	0
1986	15,435	0	0	0	182,479	0	197,914	0
1987	32,602	0	10,173	0	357,124	2,809	399,899	2,809
1988	0	0	0	0	302,578	238,584	302,578	238,584
1989	0	0	86	0	245,683	5,558	245,769	5,558
1990	0	0	0	0	358,954	16,659	358,954	16,659
1991	0	0	0	0	128,420	0	128,420	0
1992	30,519	16,536	75	182	311,542	18,394	342,136	35,111
1993	9,949	0	0	0	381,828	5,496	391,776	5,496
1994	9,982	0	0	0	274,170	22,660	284,153	22,660
1995	1,366	0	0	0	228,425	70,639	229,790	70,639
1996	0	1,505	0	0	158,963	25,247	158,963	26,752
1997	1,449	0	363	0	93,646	11,748	95,458	11,748
1998	0	6,170	33	46	69,179	25,364	69,212	31,580
1999	9,575	12,736	75	84	130,240	19,709	139,890	32,529
2000	4,118	12,994	14	0	46,634	1,411	50,766	14,405
2001	2,958	0	157	110	97,981	9,942	101,096	10,052
2002	9,421	0	152	0	105,024	3,258	114,597	3,258
2003	8,804	14,149	1,779	83	183,309	11,505	193,892	25,737
2004	15,114	0	3,404	360	219,187	73,114	237,706	73,475
2005	10,361	42,491	674	140	223,138	108,552	234,173	151,184
2006	11,495	0	1,345	665	168,271	35,917	181,111	36,582
2007	0	0	418	59	261,279	57,509	261,697	57,568
2008	4,347	5,692	6,140	436	507,684	30,705	518,171	36,833
2009	1,695	0	64	81	355,757	10,293	357,516	10,374
2010	0	2,523	1,316	210	278,997	6,353	280,313	9,086
2011	7,432	0	368	106	109,994	3,661	117,795	3,767
2012	2,016	8,614	1,359	295	559,152	43,971	562,527	52,879
2013	3,315	19,146	673	1,501	197,107	34,640	201,095	55,287

Year	Shore		Cbt		Priv		Total	
	AB1	B2	AB1	B2	AB1	B2	AB1	B2
2014	13,629	44,593	4,840	3,711	389,256	44,804	407,725	93,108
2015	83,400	13,970	3,358	2,052	621,796	46,286	708,554	62,309
2016	28,418	0	5,691	70	299,489	38,893	333,598	38,963
2017	0	2,217	2,577	841	110,626	54,686	113,203	57,745
2018	0	38,435	0	682	27,027	3,932	27,027	43,049
2019	0	34,208	0	349	8,311	9,381	8,311	43,937
2020	0	8,842	10	3,371	13,112	32,406	13,122	44,619
2021	0	52,169	0	410	35,679	35,293	35,679	87,872
2022	7,289	40,321	317	5,594	22,229	31,680	29,835	77,594
2023	0	39,453	951	317	21,935	76,103	22,887	115,873
2024	0	37,135	2,038	623	20,866	9,402	22,904	47,160

Table 3.1. Hogfish landings in numbers of fish (AB1) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP, LACreel 2014+, TPWD) for the **Outside of FL** domain (Texas through North Carolina, excluding Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt				Hbt				Priv				Shore			
	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1981	0	0.00	64 (0)	473 (0)	0	0.00	30 (0)	169 (0)	0	0.00	190 (0)	1,485 (0)	0	0.00	268 (0)	1,675 (0)
1982	0	0.00	56 (0)	483 (0)	0	0.00	34 (0)	288 (0)	12,832	1.00	434 (1)	3,681 (1)	94,062	1.00	539 (1)	3,664 (2)
1983	0	0.00	130 (0)	1,269 (0)	0	0.00	71 (0)	676 (0)	0	0.00	221 (0)	1,693 (0)	0	0.00	451 (0)	3,134 (0)
1984	0	0.00	147 (0)	1,653 (0)	0	0.00	73 (0)	811 (0)	0	0.00	222 (0)	2,161 (0)	0	0.00	425 (0)	3,395 (0)
1985	0	0.00	132 (0)	1,243 (0)	0	0.00	43 (0)	465 (0)	19,554	0.91	570 (2)	4,237 (2)	5,864	0.71	767 (2)	4,512 (2)
1986	0	0.00	334 (0)	2,897 (0)	0	0.00	0 (0)	0 (0)	4,809	1.00	1,164 (1)	10,244 (2)	7,678	1.00	499 (1)	2,613 (1)
1987	0	0.00	444 (0)	4,436 (0)	0	0.00	0 (0)	0 (0)	1,259	0.83	1,133 (2)	10,474 (2)	0	0.00	645 (0)	4,497 (0)
1988	1,532	1.00	425 (1)	3,687 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,185 (0)	10,255 (0)	0	0.00	677 (0)	5,021 (0)
1989	374	0.84	440 (2)	4,293 (2)	0	0.00	0 (0)	0 (0)	0	0.00	1,022 (0)	9,488 (0)	0	0.00	680 (0)	6,275 (0)
1990	0	0.00	327 (0)	3,423 (0)	0	0.00	0 (0)	0 (0)	671	0.71	816 (2)	9,236 (2)	2,649	1.00	519 (1)	4,821 (1)
1991	0	0.00	415 (0)	4,362 (0)	0	0.00	0 (0)	0 (0)	0	0.00	785 (0)	9,194 (0)	0	0.00	839 (0)	9,893 (0)
1992	216	0.62	628 (4)	5,880 (6)	0	0.00	0 (0)	0 (0)	240	1.00	1,220 (1)	12,920 (1)	0	0.00	1,049 (0)	9,710 (0)
1993	1,276	0.58	356 (3)	4,081 (4)	0	0.00	0 (0)	0 (0)	503	1.00	913 (1)	9,572 (1)	0	0.00	1,012 (0)	9,928 (0)
1994	109	1.00	462 (1)	6,084 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,061 (0)	11,835 (0)	0	0.00	1,116 (0)	12,345 (0)
1995	28,507	0.51	424 (7)	5,369 (11)	0	0.00	0 (0)	0 (0)	4,890	0.59	1,063 (4)	11,261 (4)	0	0.00	1,185 (0)	13,575 (0)
1996	0	0.00	610 (0)	7,997 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,280 (0)	12,964 (0)	0	0.00	1,282 (0)	15,321 (0)
1997	162	1.00	706 (1)	8,183 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,284 (0)	13,812 (0)	0	0.00	1,196 (0)	13,417 (0)

Year	Cbt				Hbt				Priv				Shore			
	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1998	1,903	1.00	811 (1)	8,372 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,239 (0)	13,755 (0)	0	0.00	1,159 (0)	13,202 (0)
1999	255	1.00	787 (1)	6,631 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,339 (0)	13,360 (0)	0	0.00	1,249 (0)	13,132 (0)
2000	33	1.00	806 (1)	7,816 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,345 (0)	12,941 (0)	0	0.00	1,102 (0)	12,131 (0)
2001	0	0.00	662 (0)	7,170 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,412 (0)	15,025 (0)	0	0.00	1,120 (0)	13,242 (0)
2002	3,259	0.99	687 (2)	6,724 (2)	0	0.00	0 (0)	0 (0)	0	0.00	1,331 (0)	13,223 (0)	0	0.00	1,151 (0)	11,902 (0)
2003	283	0.92	600 (2)	5,875 (2)	0	0.00	0 (0)	0 (0)	0	0.00	1,315 (0)	12,437 (0)	0	0.00	1,156 (0)	10,885 (0)
2004	0	0.00	616 (0)	5,708 (0)	0	0.00	0 (0)	0 (0)	454	1.00	1,337 (1)	13,096 (1)	0	0.00	1,064 (0)	9,923 (0)
2005	0	0.00	506 (0)	4,942 (0)	0	0.00	0 (0)	0 (0)	1,917	0.71	1,244 (2)	12,052 (2)	0	0.00	916 (0)	8,382 (0)
2006	33	1.00	514 (1)	4,995 (1)	0	0.00	0 (0)	0 (0)	2,168	0.65	1,622 (4)	15,334 (4)	0	0.00	909 (0)	7,785 (0)
2007	27	1.00	559 (1)	5,277 (1)	0	0.00	0 (0)	0 (0)	721	1.00	1,467 (1)	14,447 (1)	0	0.00	1,114 (0)	9,273 (0)
2008	5	1.00	597 (1)	5,105 (1)	0	0.00	0 (0)	0 (0)	943	1.00	1,576 (1)	14,905 (1)	0	0.00	1,239 (0)	11,033 (0)
2009	31	1.00	569 (1)	4,593 (1)	0	0.00	0 (0)	0 (0)	444	1.00	1,626 (1)	14,147 (1)	0	0.00	1,204 (0)	8,768 (0)
2010	84	1.00	675 (1)	5,232 (1)	0	0.00	0 (0)	0 (0)	2,775	0.71	2,027 (2)	16,658 (2)	0	0.00	1,600 (0)	12,324 (0)
2011	0	0.00	717 (0)	5,812 (0)	0	0.00	0 (0)	0 (0)	276	1.00	2,002 (1)	16,201 (1)	0	0.00	1,696 (0)	12,101 (0)
2012	40	1.00	712 (1)	5,969 (1)	0	0.00	0 (0)	0 (0)	1,950	0.93	2,183 (2)	18,993 (2)	0	0.00	1,940 (0)	13,894 (0)
2013	101	0.71	355 (2)	2,419 (2)	0	0.00	0 (0)	0 (0)	422	1.00	1,743 (1)	14,589 (1)	0	0.00	1,061 (0)	9,339 (0)
2014	0	0.00	530 (0)	4,609 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,204 (0)	9,815 (0)	0	0.00	847 (0)	8,523 (0)
2015	0	0.00	555 (0)	5,186 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,261 (0)	10,011 (0)	0	0.00	897 (0)	9,278 (0)
2016	80	1.00	640 (1)	5,546 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,380 (0)	11,595 (0)	0	0.00	1,026 (0)	8,791 (0)
2017	0	0.00	601 (0)	5,555 (0)	0	0.00	0 (0)	0 (0)	3,650	1.00	1,470 (1)	12,755 (1)	0	0.00	1,105 (0)	9,137 (0)

Year	Cbt				Hbt				Priv				Shore			
	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2018	69	1.00	718 (1)	7,044 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,360 (0)	12,565 (0)	0	0.00	1,068 (0)	10,064 (0)
2019	101	1.00	713 (1)	6,217 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,404 (0)	12,724 (0)	0	0.00	1,107 (0)	9,696 (0)
2020	31	1.00	914 (1)	8,804 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,764 (0)	16,400 (0)	1,572	1.00	1,248 (1)	10,556 (1)
2021	9	1.00	872 (1)	8,666 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,733 (0)	15,577 (0)	0	0.00	1,216 (0)	10,256 (0)
2022	25	1.00	759 (1)	7,110 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,517 (0)	11,395 (0)	0	0.00	988 (0)	7,764 (0)
2023	16	1.00	747 (1)	8,086 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,568 (0)	12,034 (0)	0	0.00	1,090 (0)	8,532 (0)
2024	0	0.00	707 (0)	7,899 (0)	0	0.00	0 (0)	0 (0)	4,733	1.00	1,513 (1)	11,179 (1)	0	0.00	969 (0)	7,114 (0)

Table 3.2. Hogfish landings in numbers of fish (AB1) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP) for the **WFS** domain (the Florida panhandle through western Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt				Hbt				Priv				Shore			
	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1981	0	0.00	46 (0)	441 (0)	0	0.00	46 (0)	441 (0)	58,163	0.66	116 (3)	921 (5)	0	0.00	225 (0)	1,333 (0)
1982	0	0.00	42 (0)	309 (0)	0	0.00	42 (0)	309 (0)	13,187	0.67	220 (3)	1,760 (4)	0	0.00	268 (0)	2,038 (0)
1983	0	0.00	52 (0)	681 (0)	0	0.00	52 (0)	681 (0)	19,922	0.73	87 (2)	793 (2)	0	0.00	148 (0)	1,189 (0)
1984	0	0.00	43 (0)	707 (0)	0	0.00	43 (0)	707 (0)	0	0.00	81 (0)	888 (0)	0	0.00	182 (0)	1,429 (0)
1985	0	0.00	46 (0)	795 (0)	0	0.00	46 (0)	795 (0)	0	0.00	122 (0)	1,018 (0)	0	0.00	247 (0)	2,048 (0)
1986	4,638	0.71	143 (2)	913 (4)	0	0.00	0 (0)	0 (0)	44,949	0.76	507 (2)	3,139 (2)	0	0.00	214 (0)	1,030 (0)
1987	1,163	0.84	142 (2)	944 (4)	0	0.00	0 (0)	0 (0)	98,583	0.57	722 (7)	4,964 (11)	0	0.00	219 (0)	1,105 (0)
1988	0	0.00	133 (0)	771 (0)	0	0.00	0 (0)	0 (0)	59,417	0.33	724 (14)	5,410 (16)	0	0.00	372 (0)	2,297 (0)
1989	1,962	0.88	64 (2)	423 (2)	0	0.00	0 (0)	0 (0)	107,300	0.54	432 (8)	3,513 (10)	0	0.00	240 (0)	1,670 (0)
1990	0	0.00	40 (0)	260 (0)	0	0.00	0 (0)	0 (0)	59,179	0.66	341 (3)	2,963 (3)	0	0.00	177 (0)	1,303 (0)
1991	0	0.00	46 (0)	269 (0)	0	0.00	0 (0)	0 (0)	148,305	0.45	308 (7)	2,885 (12)	0	0.00	185 (0)	1,270 (0)
1992	0	0.00	71 (0)	451 (0)	0	0.00	0 (0)	0 (0)	78,425	0.51	567 (12)	7,550 (15)	0	0.00	355 (0)	3,222 (0)
1993	0	0.00	73 (0)	484 (0)	0	0.00	0 (0)	0 (0)	91,847	0.37	460 (14)	6,225 (21)	0	0.00	517 (0)	5,221 (0)
1994	0	0.00	71 (0)	545 (0)	0	0.00	0 (0)	0 (0)	54,325	0.34	493 (15)	7,456 (20)	0	0.00	527 (0)	6,175 (0)
1995	0	0.00	68 (0)	420 (0)	0	0.00	0 (0)	0 (0)	104,008	0.34	401 (16)	6,561 (18)	0	0.00	481 (0)	5,710 (0)
1996	0	0.00	83 (0)	458 (0)	0	0.00	0 (0)	0 (0)	32,345	0.36	572 (13)	8,163 (16)	0	0.00	407 (0)	3,799 (0)

Year	Cbt				Hbt				Priv				Shore			
	ABI	CV	PSU	Trp	ABI	CV	PSU	Trp	ABI	CV	PSU	Trp	ABI	CV	PSU	Trp
1997	0	0.00	193 (0)	1,031 (0)	0	0.00	0 (0)	0 (0)	61,863	0.31	528 (17)	8,070 (17)	6,566	1.00	392 (1)	3,953 (1)
1998	5,735	0.59	341 (6)	2,503 (6)	0	0.00	0 (0)	0 (0)	70,095	0.33	610 (17)	9,738 (24)	0	0.00	447 (0)	4,671 (0)
1999	803	0.70	491 (4)	4,932 (4)	0	0.00	0 (0)	0 (0)	96,530	0.25	898 (27)	12,806 (30)	0	0.00	551 (0)	6,414 (0)
2000	0	0.00	491 (0)	6,465 (0)	0	0.00	0 (0)	0 (0)	50,080	0.37	752 (11)	10,170 (13)	0	0.00	480 (0)	5,223 (0)
2001	335	0.66	407 (3)	5,052 (3)	0	0.00	0 (0)	0 (0)	87,355	0.39	748 (15)	12,061 (19)	7,201	1.00	476 (1)	5,340 (1)
2002	454	0.70	440 (3)	5,445 (3)	0	0.00	0 (0)	0 (0)	43,270	0.51	847 (11)	13,517 (12)	1,638	1.00	449 (1)	5,503 (1)
2003	675	0.54	597 (5)	6,564 (5)	0	0.00	0 (0)	0 (0)	119,835	0.29	918 (24)	12,475 (31)	0	0.00	549 (0)	6,006 (0)
2004	166	0.72	559 (2)	7,571 (2)	0	0.00	0 (0)	0 (0)	95,533	0.48	661 (12)	11,044 (13)	0	0.00	318 (0)	4,673 (0)
2005	353	0.88	461 (2)	6,114 (2)	0	0.00	0 (0)	0 (0)	57,129	0.56	614 (11)	10,287 (12)	0	0.00	300 (0)	4,349 (0)
2006	49	1.00	342 (1)	4,559 (1)	0	0.00	0 (0)	0 (0)	61,595	0.49	685 (12)	11,002 (12)	0	0.00	299 (0)	4,521 (0)
2007	936	0.67	327 (3)	4,253 (3)	0	0.00	0 (0)	0 (0)	74,747	0.39	677 (12)	11,109 (15)	0	0.00	292 (0)	4,456 (0)
2008	427	0.71	304 (2)	3,202 (2)	0	0.00	0 (0)	0 (0)	196,342	0.32	762 (20)	11,196 (24)	9,684	0.71	321 (2)	4,269 (2)
2009	802	0.71	282 (2)	2,963 (2)	0	0.00	0 (0)	0 (0)	112,822	0.29	804 (20)	12,230 (29)	2,137	0.90	360 (2)	4,858 (2)
2010	24,945	0.81	301 (2)	3,255 (2)	0	0.00	0 (0)	0 (0)	190,741	0.38	770 (18)	11,628 (22)	0	0.00	373 (0)	5,299 (0)
2011	2,783	0.76	352 (5)	4,433 (5)	0	0.00	0 (0)	0 (0)	104,864	0.30	821 (17)	11,792 (23)	0	0.00	346 (0)	5,086 (0)
2012	5,443	0.47	449 (8)	5,377 (17)	0	0.00	0 (0)	0 (0)	164,917	0.34	892 (16)	12,218 (23)	0	0.00	384 (0)	5,639 (0)
2013	490	0.89	205 (2)	1,816 (2)	0	0.00	0 (0)	0 (0)	241,355	0.43	801 (23)	9,828 (32)	0	0.00	310 (0)	4,324 (0)
2014	3,401	0.55	362 (9)	3,499 (14)	0	0.00	0 (0)	0 (0)	103,594	0.30	945 (30)	12,686 (40)	8,195	1.00	248 (1)	3,318 (1)
2015	4,194	0.54	395 (9)	3,540 (15)	0	0.00	0 (0)	0 (0)	99,868	0.41	1,005 (23)	12,482 (27)	0	0.00	252 (0)	2,796 (0)

Year	Cbt				Hbt				Priv				Shore			
	ABI	CV	PSU	Trp	ABI	CV	PSU	Trp	ABI	CV	PSU	Trp	ABI	CV	PSU	Trp
2016	11,981	0.71	421 (11)	3,654 (13)	0	0.00	0 (0)	0 (0)	283,038	0.35	1,020 (32)	12,284 (44)	0	0.00	447 (0)	3,603 (0)
2017	7,732	0.48	340 (15)	3,217 (23)	0	0.00	0 (0)	0 (0)	105,345	0.32	771 (22)	10,281 (32)	0	0.00	341 (0)	3,040 (0)
2018	15,762	0.40	329 (14)	2,966 (21)	0	0.00	0 (0)	0 (0)	43,175	0.44	704 (13)	7,825 (16)	0	0.00	316 (0)	2,809 (0)
2019	6,726	0.52	315 (8)	2,551 (9)	0	0.00	0 (0)	0 (0)	55,747	0.31	680 (16)	7,573 (22)	0	0.00	331 (0)	2,655 (0)
2020	10,161	0.40	344 (11)	2,239 (17)	0	0.00	0 (0)	0 (0)	53,240	0.44	807 (12)	8,503 (14)	0	0.00	383 (0)	3,003 (0)
2021	14,957	0.38	414 (24)	3,292 (29)	0	0.00	0 (0)	0 (0)	53,217	0.54	735 (4)	6,077 (6)	0	0.00	505 (0)	4,071 (0)
2022	8,234	0.44	326 (10)	2,400 (16)	0	0.00	0 (0)	0 (0)	38,622	0.50	693 (9)	5,067 (11)	0	0.00	474 (0)	3,172 (0)
2023	36,973	0.51	440 (21)	3,671 (26)	0	0.00	0 (0)	0 (0)	117,169	0.36	753 (16)	6,174 (20)	0	0.00	523 (0)	4,263 (0)
2024	15,546	0.46	459 (28)	3,843 (38)	0	0.00	0 (0)	0 (0)	137,299	0.35	734 (17)	6,591 (24)	0	0.00	509 (0)	4,705 (0)

Table 3.3. Hogfish landings in numbers of fish (AB1) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP) for the **Keys_EFL** domain (the Florida Keys through northeastern Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt				Priv				Shore			
	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1981	0	0.00	9 (0)	96 (0)	1,876,238	0.67	22 (7)	193 (18)	0	0.00	21 (0)	167 (0)
1982	0	0.00	12 (0)	76 (0)	155,783	0.65	42 (7)	378 (8)	0	0.00	34 (0)	245 (0)
1983	0	0.00	26 (0)	269 (0)	282,604	0.66	19 (3)	151 (4)	0	0.00	15 (0)	136 (0)
1984	40	1.00	41 (1)	323 (1)	9,620,456	0.93	22 (5)	123 (11)	58,989	0.68	43 (3)	224 (5)
1985	0	0.00	21 (0)	120 (0)	243,017	1.00	10 (1)	96 (4)	10,447	1.00	6 (1)	73 (2)
1986	0	0.00	29 (0)	155 (0)	182,479	0.49	46 (6)	205 (7)	15,435	1.00	6 (1)	26 (1)
1987	10,173	1.00	36 (1)	176 (1)	357,124	0.32	108 (22)	607 (31)	32,602	0.71	29 (2)	165 (2)
1988	0	0.00	40 (0)	225 (0)	302,578	0.46	45 (10)	259 (15)	0	0.00	26 (0)	162 (0)
1989	86	1.00	35 (1)	186 (1)	245,683	0.43	51 (10)	287 (14)	0	0.00	16 (0)	124 (0)
1990	0	0.00	26 (0)	151 (0)	358,954	0.40	60 (11)	346 (20)	0	0.00	34 (0)	143 (0)
1991	0	0.00	60 (0)	315 (0)	128,420	0.69	103 (3)	490 (4)	0	0.00	59 (0)	285 (0)
1992	75	1.00	78 (1)	456 (1)	311,542	0.31	160 (18)	983 (28)	30,519	0.53	73 (4)	416 (5)
1993	0	0.00	68 (0)	463 (0)	381,828	0.34	208 (18)	1,066 (23)	9,949	0.82	181 (2)	911 (2)
1994	0	0.00	64 (0)	441 (0)	274,170	0.37	167 (17)	1,053 (24)	9,982	0.53	125 (4)	677 (4)
1995	0	0.00	63 (0)	474 (0)	228,425	0.50	136 (13)	796 (20)	1,366	0.00	132 (0)	757 (0)
1996	0	0.00	68 (0)	576 (0)	158,963	0.38	168 (13)	1,119 (13)	0	0.00	120 (0)	717 (0)

Year	Cbt				Priv				Shore			
	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1997	363	1.00	158 (1)	1,038 (1)	93,646	0.45	144 (11)	1,109 (12)	1,449	1.00	88 (1)	522 (1)
1998	33	0.72	214 (3)	1,985 (3)	69,179	0.47	98 (7)	699 (7)	0	0.00	60 (0)	411 (0)
1999	75	0.79	328 (2)	3,655 (2)	130,240	0.60	112 (6)	781 (6)	9,575	0.80	61 (2)	387 (2)
2000	14	1.00	384 (1)	4,674 (1)	46,634	0.72	73 (2)	500 (2)	4,118	1.00	24 (1)	135 (1)
2001	157	1.00	265 (1)	4,248 (1)	97,981	0.69	53 (3)	421 (3)	2,958	0.00	33 (0)	286 (0)
2002	152	0.61	261 (3)	3,732 (3)	105,024	0.71	44 (3)	297 (4)	9,421	0.00	21 (0)	163 (0)
2003	1,779	0.77	230 (9)	3,707 (11)	183,309	0.43	54 (10)	567 (13)	8,804	0.00	29 (0)	248 (0)
2004	3,404	0.53	174 (10)	2,687 (10)	219,187	0.57	31 (7)	375 (11)	15,114	0.59	18 (3)	144 (3)
2005	674	0.53	167 (4)	2,589 (4)	223,138	0.66	17 (5)	159 (7)	10,361	1.00	13 (1)	104 (1)
2006	1,345	0.53	117 (5)	1,774 (5)	168,271	0.42	25 (10)	251 (11)	11,495	1.00	6 (1)	27 (1)
2007	418	0.71	175 (2)	1,924 (3)	261,279	0.34	56 (16)	395 (20)	0	0.00	16 (0)	108 (0)
2008	6,140	0.72	239 (12)	2,641 (12)	507,684	0.52	72 (11)	406 (24)	4,347	0.00	29 (0)	182 (0)
2009	64	1.00	148 (1)	1,647 (1)	355,757	0.41	41 (13)	211 (14)	1,695	0.00	15 (0)	62 (0)
2010	1,316	0.46	176 (6)	2,122 (6)	278,997	0.63	47 (5)	256 (8)	0	0.00	12 (0)	47 (0)
2011	368	0.57	194 (4)	2,042 (4)	109,994	0.56	36 (5)	147 (5)	7,432	1.00	18 (1)	81 (1)
2012	1,359	0.75	194 (5)	1,962 (5)	559,152	0.69	60 (10)	338 (18)	2,016	1.00	27 (1)	110 (1)
2013	673	0.41	111 (7)	1,088 (7)	197,107	0.36	105 (17)	579 (28)	3,315	0.74	34 (2)	193 (2)
2014	4,840	0.43	136 (9)	1,316 (14)	389,256	0.33	199 (37)	1,547 (60)	13,629	1.00	44 (1)	199 (1)
2015	3,358	0.52	149 (7)	1,053 (10)	621,796	0.30	182 (41)	1,332 (52)	83,400	0.62	55 (3)	235 (7)

Year	Cbt				Priv				Shore			
	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2016	5,691	0.48	115 (6)	714 (6)	299,489	0.29	154 (24)	749 (33)	28,418	0.95	48 (2)	168 (2)
2017	2,577	0.60	90 (6)	594 (7)	110,626	0.42	115 (9)	575 (12)	0	0.00	32 (0)	117 (0)
2018	0	0.00	107 (0)	848 (0)	27,027	0.63	133 (3)	725 (3)	0	0.00	38 (0)	174 (0)
2019	0	0.00	89 (0)	534 (0)	8,311	0.00	145 (0)	704 (0)	0	0.00	41 (0)	148 (0)
2020	10	1.00	100 (1)	673 (1)	13,112	0.72	153 (2)	641 (2)	0	0.00	48 (0)	215 (0)
2021	0	0.00	148 (0)	1,229 (0)	35,679	0.65	140 (3)	696 (3)	0	0.00	76 (0)	347 (0)
2022	317	0.00	106 (0)	623 (0)	22,229	0.71	127 (2)	481 (2)	7,289	1.00	75 (1)	287 (1)
2023	951	1.00	138 (1)	1,034 (1)	21,935	1.00	158 (1)	837 (1)	0	0.00	86 (0)	399 (0)
2024	2,038	0.00	144 (0)	1,137 (0)	20,866	0.00	156 (0)	934 (0)	0	0.00	97 (0)	731 (0)

Table 4.1. Hogfish discards in numbers of fish (B2) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP, LACreel 2014+, TPWD) for the **Outside of FL** domain (Texas through North Carolina, excluding Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt				Hbt				Priv				Shore			
	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1981	0	0.00	64 (0)	473 (0)	0	0.00	30 (0)	169 (0)	0	0.00	190 (0)	1,485 (0)	0	0.00	268 (0)	1,675 (0)
1982	0	0.00	56 (0)	483 (0)	0	0.00	34 (0)	288 (0)	185,415	0.99	434 (2)	3,681 (2)	0	0.00	539 (0)	3,664 (0)
1983	0	0.00	130 (0)	1,269 (0)	0	0.00	71 (0)	676 (0)	0	0.00	221 (0)	1,693 (0)	46,002	1.00	451 (1)	3,134 (1)
1984	0	0.00	147 (0)	1,653 (0)	0	0.00	73 (0)	811 (0)	0	0.00	222 (0)	2,161 (0)	0	0.00	425 (0)	3,395 (0)
1985	0	0.00	132 (0)	1,243 (0)	0	0.00	43 (0)	465 (0)	0	0.00	570 (0)	4,237 (0)	45,807	1.00	767 (1)	4,512 (2)
1986	0	0.00	334 (0)	2,897 (0)	0	0.00	0 (0)	0 (0)	34,289	0.99	1,164 (2)	10,244 (2)	15,355	1.00	499 (1)	2,613 (1)
1987	0	0.00	444 (0)	4,436 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,133 (0)	10,474 (0)	0	0.00	645 (0)	4,497 (0)
1988	0	0.00	425 (0)	3,687 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,185 (0)	10,255 (0)	0	0.00	677 (0)	5,021 (0)
1989	0	0.00	440 (0)	4,293 (0)	0	0.00	0 (0)	0 (0)	140	1.00	1,022 (1)	9,488 (1)	0	0.00	680 (0)	6,275 (0)
1990	0	0.00	327 (0)	3,423 (0)	0	0.00	0 (0)	0 (0)	0	0.00	816 (0)	9,236 (0)	0	0.00	519 (0)	4,821 (0)
1991	0	0.00	415 (0)	4,362 (0)	0	0.00	0 (0)	0 (0)	0	0.00	785 (0)	9,194 (0)	0	0.00	839 (0)	9,893 (0)
1992	0	0.00	628 (0)	5,880 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,220 (0)	12,920 (0)	3,140	1.00	1,049 (1)	9,710 (1)
1993	0	0.00	356 (0)	4,081 (0)	0	0.00	0 (0)	0 (0)	0	0.00	913 (0)	9,572 (0)	0	0.00	1,012 (0)	9,928 (0)
1994	0	0.00	462 (0)	6,084 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,061 (0)	11,835 (0)	0	0.00	1,116 (0)	12,345 (0)
1995	0	0.00	424 (0)	5,369 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,063 (0)	11,261 (0)	0	0.00	1,185 (0)	13,575 (0)
1996	0	0.00	610 (0)	7,997 (0)	0	0.00	0 (0)	0 (0)	4,928	1.00	1,280 (1)	12,964 (3)	583	1.00	1,282 (1)	15,321 (1)

Year	Cbt				Hbt				Priv				Shore			
	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1997	66	1.00	706 (1)	8,183 (3)	0	0.00	0 (0)	0 (0)	6,490	1.00	1,284 (1)	13,812 (1)	0	0.00	1,196 (0)	13,417 (0)
1998	0	0.00	811 (0)	8,372 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,239 (0)	13,755 (0)	0	0.00	1,159 (0)	13,202 (0)
1999	0	0.00	787 (0)	6,631 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,339 (0)	13,360 (0)	0	0.00	1,249 (0)	13,132 (0)
2000	0	0.00	806 (0)	7,816 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,345 (0)	12,941 (0)	0	0.00	1,102 (0)	12,131 (0)
2001	0	0.00	662 (0)	7,170 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,412 (0)	15,025 (0)	0	0.00	1,120 (0)	13,242 (0)
2002	0	0.00	687 (0)	6,724 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,331 (0)	13,223 (0)	0	0.00	1,151 (0)	11,902 (0)
2003	0	0.00	600 (0)	5,875 (0)	0	0.00	0 (0)	0 (0)	3,083	1.00	1,315 (1)	12,437 (1)	0	0.00	1,156 (0)	10,885 (0)
2004	0	0.00	616 (0)	5,708 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,337 (0)	13,096 (0)	0	0.00	1,064 (0)	9,923 (0)
2005	0	0.00	506 (0)	4,942 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,244 (0)	12,052 (0)	0	0.00	916 (0)	8,382 (0)
2006	0	0.00	514 (0)	4,995 (0)	0	0.00	0 (0)	0 (0)	368	1.00	1,622 (1)	15,334 (1)	0	0.00	909 (0)	7,785 (0)
2007	0	0.00	559 (0)	5,277 (0)	0	0.00	0 (0)	0 (0)	4,568	1.00	1,467 (1)	14,447 (1)	0	0.00	1,114 (0)	9,273 (0)
2008	0	0.00	597 (0)	5,105 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,576 (0)	14,905 (0)	19,470	1.00	1,239 (1)	11,033 (3)
2009	0	0.00	569 (0)	4,593 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,626 (0)	14,147 (0)	0	0.00	1,204 (0)	8,768 (0)
2010	15	1.00	675 (1)	5,232 (1)	0	0.00	0 (0)	0 (0)	10,290	0.98	2,027 (2)	16,658 (3)	1,222	0.71	1,600 (2)	12,324 (3)
2011	0	0.00	717 (0)	5,812 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,002 (0)	16,201 (0)	9,801	0.72	1,696 (3)	12,101 (3)
2012	0	0.00	712 (0)	5,969 (0)	0	0.00	0 (0)	0 (0)	195	1.00	2,183 (1)	18,993 (1)	0	0.00	1,940 (0)	13,894 (0)
2013	0	0.00	355 (0)	2,419 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,743 (0)	14,589 (0)	0	0.00	1,061 (0)	9,339 (0)
2014	0	0.00	530 (0)	4,609 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,204 (0)	9,815 (0)	18,880	1.00	847 (1)	8,523 (3)
2015	0	0.00	555 (0)	5,186 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,261 (0)	10,011 (0)	0	0.00	897 (0)	9,278 (0)

Year	Cbt				Hbt				Priv				Shore			
	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2016	8	1.00	640 (1)	5,546 (1)	0	0.00	0 (0)	0 (0)	0	0.00	1,380 (0)	11,595 (0)	0	0.00	1,026 (0)	8,791 (0)
2017	0	0.00	601 (0)	5,555 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,470 (0)	12,755 (0)	0	0.00	1,105 (0)	9,137 (0)
2018	0	0.00	718 (0)	7,044 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,360 (0)	12,565 (0)	0	0.00	1,068 (0)	10,064 (0)
2019	0	0.00	713 (0)	6,217 (0)	0	0.00	0 (0)	0 (0)	679	1.00	1,404 (1)	12,724 (1)	1,143	1.00	1,107 (1)	9,696 (1)
2020	0	0.00	914 (0)	8,804 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,764 (0)	16,400 (0)	0	0.00	1,248 (0)	10,556 (0)
2021	0	0.00	872 (0)	8,666 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,733 (0)	15,577 (0)	0	0.00	1,216 (0)	10,256 (0)
2022	0	0.00	759 (0)	7,110 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,517 (0)	11,395 (0)	0	0.00	988 (0)	7,764 (0)
2023	0	0.00	747 (0)	8,086 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,568 (0)	12,034 (0)	0	0.00	1,090 (0)	8,532 (0)
2024	0	0.00	707 (0)	7,899 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,513 (0)	11,179 (0)	0	0.00	969 (0)	7,114 (0)

Table 4.2. Hogfish discards in numbers of fish (B2) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP) for the **WFS** domain (the Florida panhandle through western Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt				Hbt				Priv				Shore			
	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1981	0	0.00	46 (0)	441 (0)	0	0.00	46 (0)	441 (0)	0	0.00	116 (0)	921 (0)	0	0.00	225 (0)	1,333 (0)
1982	0	0.00	42 (0)	309 (0)	0	0.00	42 (0)	309 (0)	0	0.00	220 (0)	1,760 (0)	0	0.00	268 (0)	2,038 (0)
1983	0	0.00	52 (0)	681 (0)	0	0.00	52 (0)	681 (0)	0	0.00	87 (0)	793 (0)	0	0.00	148 (0)	1,189 (0)
1984	0	0.00	43 (0)	707 (0)	0	0.00	43 (0)	707 (0)	0	0.00	81 (0)	888 (0)	0	0.00	182 (0)	1,429 (0)
1985	0	0.00	46 (0)	795 (0)	0	0.00	46 (0)	795 (0)	0	0.00	122 (0)	1,018 (0)	0	0.00	247 (0)	2,048 (0)
1986	0	0.00	143 (0)	913 (0)	0	0.00	0 (0)	0 (0)	0	0.00	507 (0)	3,139 (0)	0	0.00	214 (0)	1,030 (0)
1987	0	0.00	142 (0)	944 (0)	0	0.00	0 (0)	0 (0)	6,828	1.00	722 (1)	4,964 (1)	0	0.00	219 (0)	1,105 (0)
1988	0	0.00	133 (0)	771 (0)	0	0.00	0 (0)	0 (0)	0	0.00	724 (0)	5,410 (0)	0	0.00	372 (0)	2,297 (0)
1989	0	0.00	64 (0)	423 (0)	0	0.00	0 (0)	0 (0)	3,471	1.00	432 (1)	3,513 (1)	0	0.00	240 (0)	1,670 (0)
1990	0	0.00	40 (0)	260 (0)	0	0.00	0 (0)	0 (0)	0	0.00	341 (0)	2,963 (0)	0	0.00	177 (0)	1,303 (0)
1991	0	0.00	46 (0)	269 (0)	0	0.00	0 (0)	0 (0)	0	0.00	308 (0)	2,885 (0)	0	0.00	185 (0)	1,270 (0)
1992	0	0.00	71 (0)	451 (0)	0	0.00	0 (0)	0 (0)	4,522	1.00	567 (1)	7,550 (1)	0	0.00	355 (0)	3,222 (0)
1993	0	0.00	73 (0)	484 (0)	0	0.00	0 (0)	0 (0)	0	0.00	460 (0)	6,225 (0)	0	0.00	517 (0)	5,221 (0)
1994	0	0.00	71 (0)	545 (0)	0	0.00	0 (0)	0 (0)	0	0.00	493 (0)	7,456 (0)	0	0.00	527 (0)	6,175 (0)
1995	0	0.00	68 (0)	420 (0)	0	0.00	0 (0)	0 (0)	2,149	1.00	401 (1)	6,561 (1)	2,648	1.00	481 (1)	5,710 (1)
1996	0	0.00	83 (0)	458 (0)	0	0.00	0 (0)	0 (0)	10,420	1.00	572 (1)	8,163 (1)	3,875	1.00	407 (1)	3,799 (1)

Year	Cbt				Hbt				Priv				Shore			
	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1997	0	0.00	193 (0)	1,031 (0)	0	0.00	0 (0)	0 (0)	758	1.00	528 (1)	8,070 (1)	0	0.00	392 (0)	3,953 (0)
1998	6,167	0.76	341 (3)	2,503 (6)	0	0.00	0 (0)	0 (0)	1,005	1.00	610 (1)	9,738 (1)	0	0.00	447 (0)	4,671 (0)
1999	0	0.00	491 (0)	4,932 (0)	0	0.00	0 (0)	0 (0)	9,699	0.86	898 (3)	12,806 (3)	0	0.00	551 (0)	6,414 (0)
2000	0	0.00	491 (0)	6,465 (0)	0	0.00	0 (0)	0 (0)	1,731	1.00	752 (1)	10,170 (1)	0	0.00	480 (0)	5,223 (0)
2001	0	0.00	407 (0)	5,052 (0)	0	0.00	0 (0)	0 (0)	0	0.00	748 (0)	12,061 (0)	0	0.00	476 (0)	5,340 (0)
2002	0	0.00	440 (0)	5,445 (0)	0	0.00	0 (0)	0 (0)	703	1.00	847 (1)	13,517 (1)	0	0.00	449 (0)	5,503 (0)
2003	0	0.00	597 (0)	6,564 (0)	0	0.00	0 (0)	0 (0)	964	1.00	918 (1)	12,475 (1)	0	0.00	549 (0)	6,006 (0)
2004	0	0.00	559 (0)	7,571 (0)	0	0.00	0 (0)	0 (0)	1,557	1.00	661 (1)	11,044 (1)	0	0.00	318 (0)	4,673 (0)
2005	0	0.00	461 (0)	6,114 (0)	0	0.00	0 (0)	0 (0)	5,687	0.71	614 (2)	10,287 (4)	0	0.00	300 (0)	4,349 (0)
2006	0	0.00	342 (0)	4,559 (0)	0	0.00	0 (0)	0 (0)	457	1.00	685 (1)	11,002 (1)	1,665	1.00	299 (1)	4,521 (1)
2007	0	0.00	327 (0)	4,253 (0)	0	0.00	0 (0)	0 (0)	0	0.00	677 (0)	11,109 (0)	549	1.00	292 (1)	4,456 (1)
2008	0	0.00	304 (0)	3,202 (0)	0	0.00	0 (0)	0 (0)	5,571	0.50	762 (4)	11,196 (4)	5,248	1.00	321 (1)	4,269 (1)
2009	0	0.00	282 (0)	2,963 (0)	0	0.00	0 (0)	0 (0)	4,576	0.58	804 (4)	12,230 (4)	2,056	1.00	360 (1)	4,858 (1)
2010	0	0.00	301 (0)	3,255 (0)	0	0.00	0 (0)	0 (0)	11,815	0.71	770 (2)	11,628 (3)	665	1.00	373 (1)	5,299 (1)
2011	0	0.00	352 (0)	4,433 (0)	0	0.00	0 (0)	0 (0)	1,512	1.00	821 (1)	11,792 (1)	0	0.00	346 (0)	5,086 (0)
2012	0	0.00	449 (0)	5,377 (0)	0	0.00	0 (0)	0 (0)	0	0.00	892 (0)	12,218 (0)	0	0.00	384 (0)	5,639 (0)
2013	0	0.00	205 (0)	1,816 (0)	0	0.00	0 (0)	0 (0)	7,081	0.56	801 (4)	9,828 (7)	0	0.00	310 (0)	4,324 (0)
2014	1,914	0.99	362 (2)	3,499 (13)	0	0.00	0 (0)	0 (0)	11,501	0.94	945 (3)	12,686 (7)	0	0.00	248 (0)	3,318 (0)
2015	540	0.75	395 (3)	3,540 (5)	0	0.00	0 (0)	0 (0)	833	1.00	1,005 (1)	12,482 (1)	0	0.00	252 (0)	2,796 (0)

Year	Cbt				Hbt				Priv				Shore			
	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2016	78	1.00	421 (1)	3,654 (1)	0	0.00	0 (0)	0 (0)	24,766	0.62	1,020 (5)	12,284 (6)	0	0.00	447 (0)	3,603 (0)
2017	4,907	0.57	340 (9)	3,217 (20)	0	0.00	0 (0)	0 (0)	32,367	0.54	771 (8)	10,281 (13)	0	0.00	341 (0)	3,040 (0)
2018	13,009	0.57	329 (6)	2,966 (17)	0	0.00	0 (0)	0 (0)	25,008	0.49	704 (6)	7,825 (10)	0	0.00	316 (0)	2,809 (0)
2019	7,755	0.55	315 (6)	2,551 (19)	0	0.00	0 (0)	0 (0)	35,194	0.66	680 (4)	7,573 (8)	0	0.00	331 (0)	2,655 (0)
2020	11,438	0.43	344 (7)	2,239 (25)	0	0.00	0 (0)	0 (0)	27,653	0.48	807 (7)	8,503 (10)	0	0.00	383 (0)	3,003 (0)
2021	28,226	0.36	414 (20)	3,292 (55)	0	0.00	0 (0)	0 (0)	32,259	0.43	735 (8)	6,077 (9)	0	0.00	505 (0)	4,071 (0)
2022	22,656	0.51	326 (8)	2,400 (28)	0	0.00	0 (0)	0 (0)	88,070	0.67	693 (6)	5,067 (17)	0	0.00	474 (0)	3,172 (0)
2023	62,412	0.60	440 (18)	3,671 (50)	0	0.00	0 (0)	0 (0)	127,500	0.55	753 (11)	6,174 (24)	0	0.00	523 (0)	4,263 (0)
2024	14,086	0.32	459 (23)	3,843 (76)	0	0.00	0 (0)	0 (0)	51,367	0.53	734 (8)	6,591 (17)	5,060	1.00	509 (1)	4,705 (1)

Table 4.3. Hogfish discards in numbers of fish (B2) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP) for the **Keys_EFL** domain (the Florida Keys through northeastern Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt				Priv				Shore			
	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1981	0	0.00	9 (0)	96 (0)	0	0.00	22 (0)	193 (0)	0	0.00	21 (0)	167 (0)
1982	0	0.00	12 (0)	76 (0)	0	0.00	42 (0)	378 (0)	0	0.00	34 (0)	245 (0)
1983	0	0.00	26 (0)	269 (0)	0	0.00	19 (0)	151 (0)	0	0.00	15 (0)	136 (0)
1984	0	0.00	41 (0)	323 (0)	0	0.00	22 (0)	123 (0)	0	0.00	43 (0)	224 (0)
1985	0	0.00	21 (0)	120 (0)	0	0.00	10 (0)	96 (0)	0	0.00	6 (0)	73 (0)
1986	0	0.00	29 (0)	155 (0)	0	0.00	46 (0)	205 (0)	0	0.00	6 (0)	26 (0)
1987	0	0.00	36 (0)	176 (0)	2,809	1.00	108 (1)	607 (1)	0	0.00	29 (0)	165 (0)
1988	0	0.00	40 (0)	225 (0)	238,584	0.99	45 (2)	259 (4)	0	0.00	26 (0)	162 (0)
1989	0	0.00	35 (0)	186 (0)	5,558	1.00	51 (1)	287 (1)	0	0.00	16 (0)	124 (0)
1990	0	0.00	26 (0)	151 (0)	16,659	0.67	60 (3)	346 (3)	0	0.00	34 (0)	143 (0)
1991	0	0.00	60 (0)	315 (0)	0	0.00	103 (0)	490 (0)	0	0.00	59 (0)	285 (0)
1992	182	1.00	78 (1)	456 (1)	18,394	0.64	160 (3)	983 (3)	16,536	1.00	73 (1)	416 (2)
1993	0	0.00	68 (0)	463 (0)	5,496	1.00	208 (1)	1,066 (1)	0	0.00	181 (0)	911 (0)
1994	0	0.00	64 (0)	441 (0)	22,660	0.64	167 (3)	1,053 (4)	0	0.00	125 (0)	677 (0)
1995	0	0.00	63 (0)	474 (0)	70,639	0.54	136 (6)	796 (13)	0	0.00	132 (0)	757 (0)
1996	0	0.00	68 (0)	576 (0)	25,247	0.71	168 (2)	1,119 (5)	1,505	1.00	120 (1)	717 (1)
1997	0	0.00	158 (0)	1,038 (0)	11,748	0.51	144 (4)	1,109 (5)	0	0.00	88 (0)	522 (0)
1998	46	1.00	214 (1)	1,985 (1)	25,364	0.59	98 (4)	699 (6)	6,170	1.00	60 (1)	411 (1)
1999	84	0.80	328 (2)	3,655 (2)	19,709	0.61	112 (4)	781 (4)	12,736	0.71	61 (2)	387 (2)
2000	0	0.00	384 (0)	4,674 (0)	1,411	0.00	73 (0)	500 (0)	12,994	1.00	24 (1)	135 (1)
2001	110	1.00	265 (1)	4,248 (2)	9,942	1.00	53 (1)	421 (1)	0	0.00	33 (0)	286 (0)
2002	0	0.00	261 (0)	3,732 (0)	3,258	1.00	44 (1)	297 (1)	0	0.00	21 (0)	163 (0)
2003	83	0.84	230 (2)	3,707 (2)	11,505	1.00	54 (1)	567 (2)	14,149	1.00	29 (1)	248 (2)
2004	360	0.85	174 (2)	2,687 (2)	73,114	0.72	31 (3)	375 (9)	0	0.00	18 (0)	144 (0)

Year	Cbt				Priv				Shore			
	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2005	140	0.77	167 (2)	2,589 (3)	108,552	1.00	17 (1)	159 (2)	42,491	0.72	13 (2)	104 (3)
2006	665	1.00	117 (1)	1,774 (2)	35,917	0.70	25 (3)	251 (5)	0	0.00	6 (0)	27 (0)
2007	59	1.00	175 (1)	1,924 (1)	57,509	0.70	56 (3)	395 (5)	0	0.00	16 (0)	108 (0)
2008	436	0.79	239 (2)	2,641 (3)	30,705	0.59	72 (3)	406 (4)	5,692	1.00	29 (1)	182 (1)
2009	81	0.71	148 (2)	1,647 (2)	10,293	1.00	41 (1)	211 (1)	0	0.00	15 (0)	62 (0)
2010	210	1.00	176 (1)	2,122 (3)	6,353	1.00	47 (1)	256 (2)	2,523	0.00	12 (0)	47 (0)
2011	106	0.71	194 (2)	2,042 (2)	3,661	1.00	36 (1)	147 (1)	0	0.00	18 (0)	81 (0)
2012	295	0.72	194 (2)	1,962 (5)	43,971	0.87	60 (2)	338 (10)	8,614	1.00	27 (1)	110 (1)
2013	1,501	0.53	111 (6)	1,088 (9)	34,640	0.51	105 (4)	579 (5)	19,146	1.00	34 (1)	193 (2)
2014	3,711	0.61	136 (5)	1,316 (10)	44,804	0.54	199 (8)	1,547 (11)	44,593	0.53	44 (5)	199 (7)
2015	2,052	0.71	149 (2)	1,053 (6)	46,286	0.77	182 (8)	1,332 (12)	13,970	1.00	55 (1)	235 (6)
2016	70	1.00	115 (1)	714 (1)	38,893	0.57	154 (6)	749 (6)	0	0.00	48 (0)	168 (0)
2017	841	0.58	90 (4)	594 (6)	54,686	0.82	115 (5)	575 (9)	2,217	0.00	32 (0)	117 (0)
2018	682	0.77	107 (2)	848 (3)	3,932	1.00	133 (1)	725 (1)	38,435	0.77	38 (2)	174 (3)
2019	349	0.76	89 (2)	534 (2)	9,381	1.00	145 (1)	704 (1)	34,208	0.95	41 (2)	148 (2)
2020	3,371	0.87	100 (2)	673 (4)	32,406	0.80	153 (5)	641 (7)	8,842	0.72	48 (2)	215 (2)
2021	410	0.70	148 (3)	1,229 (4)	35,293	0.53	140 (6)	696 (7)	52,169	0.42	76 (10)	347 (12)
2022	5,594	0.67	106 (4)	623 (6)	31,680	0.66	127 (5)	481 (5)	40,321	0.68	75 (3)	287 (3)
2023	317	0.59	138 (3)	1,034 (4)	76,103	0.45	158 (6)	837 (9)	39,453	0.35	86 (9)	399 (9)
2024	623	0.90	144 (3)	1,137 (3)	9,402	0.62	156 (3)	934 (3)	37,135	0.43	97 (10)	731 (15)

Table 5.1. Hogfish landings (AB1) and discards (B2), in numbers of fish, with associated coefficients of variation (CV; Dettloff et al. 2020) by year for all modes combined from all data sources (MRIP, LACreel 2014+, TPWD) for the **Outside of FL** domain (Texas through North Carolina, excluding Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	AB1				B2			
	Total	CV	PSU	Trp	Total	CV	PSU	Trp
1981	0	0.00	522 (0)	3,633 (0)	0	0.00	522 (0)	3,633 (0)
1982	106,894	0.89	1,029 (2)	7,828 (3)	185,415	0.99	1,029 (2)	7,828 (2)
1983	0	0.00	802 (0)	6,096 (0)	46,002	1.00	802 (1)	6,096 (1)
1984	0	0.00	794 (0)	7,209 (0)	0	0.00	794 (0)	7,209 (0)
1985	25,418	0.72	1,469 (4)	9,992 (4)	45,807	1.00	1,469 (1)	9,992 (2)
1986	12,487	0.73	1,997 (2)	15,754 (3)	49,644	0.75	1,997 (3)	15,754 (3)
1987	1,259	0.83	2,222 (2)	19,407 (2)	0	0.00	2,222 (0)	19,407 (0)
1988	1,532	1.00	2,287 (1)	18,963 (1)	0	0.00	2,287 (0)	18,963 (0)
1989	374	0.84	2,142 (2)	20,056 (2)	140	1.00	2,142 (1)	20,056 (1)
1990	3,319	0.81	1,662 (3)	17,480 (3)	0	0.00	1,662 (0)	17,480 (0)
1991	0	0.00	2,039 (0)	23,449 (0)	0	0.00	2,039 (0)	23,449 (0)
1992	455	0.60	2,897 (5)	28,510 (7)	3,140	1.00	2,897 (1)	28,510 (1)
1993	1,778	0.51	2,281 (4)	23,581 (5)	0	0.00	2,281 (0)	23,581 (0)
1994	109	1.00	2,639 (1)	30,264 (1)	0	0.00	2,639 (0)	30,264 (0)
1995	33,397	0.44	2,672 (11)	30,205 (15)	0	0.00	2,672 (0)	30,205 (0)
1996	0	0.00	3,172 (0)	36,282 (0)	5,511	0.90	3,172 (2)	36,282 (4)
1997	162	1.00	3,186 (1)	35,412 (1)	6,556	0.99	3,186 (2)	35,412 (4)
1998	1,903	1.00	3,209 (1)	35,329 (1)	0	0.00	3,209 (0)	35,329 (0)
1999	255	1.00	3,375 (1)	33,123 (1)	0	0.00	3,375 (0)	33,123 (0)
2000	33	1.00	3,253 (1)	32,888 (1)	0	0.00	3,253 (0)	32,888 (0)
2001	0	0.00	3,194 (0)	35,437 (0)	0	0.00	3,194 (0)	35,437 (0)
2002	3,259	0.99	3,169 (2)	31,849 (2)	0	0.00	3,169 (0)	31,849 (0)
2003	283	0.92	3,071 (2)	29,197 (2)	3,083	1.00	3,071 (1)	29,197 (1)
2004	454	1.00	3,017 (1)	28,727 (1)	0	0.00	3,017 (0)	28,727 (0)
2005	1,917	0.69	2,666 (2)	25,376 (2)	0	0.00	2,666 (0)	25,376 (0)
2006	2,200	0.64	3,045 (5)	28,114 (5)	368	1.00	3,045 (1)	28,114 (1)
2007	748	0.96	3,140 (2)	28,997 (2)	4,568	1.00	3,140 (1)	28,997 (1)
2008	948	0.99	3,412 (2)	31,043 (2)	19,470	1.00	3,412 (1)	31,043 (3)
2009	475	0.94	3,399 (2)	27,508 (2)	0	0.00	3,399 (0)	27,508 (0)
2010	2,859	0.69	4,302 (3)	34,214 (3)	11,527	0.88	4,302 (5)	34,214 (7)

Year	AB1				B2			
	Total	CV	PSU	Trp	Total	CV	PSU	Trp
2011	276	1.00	4,415 (1)	34,114 (1)	9,801	0.72	4,415 (3)	34,114 (3)
2012	1,990	0.91	4,835 (3)	38,856 (3)	195	1.00	4,835 (1)	38,856 (1)
2013	524	0.82	3,159 (3)	26,347 (3)	0	0.00	3,159 (0)	26,347 (0)
2014	0	0.00	2,581 (0)	22,947 (0)	18,880	1.00	2,581 (1)	22,947 (3)
2015	0	0.00	2,713 (0)	24,475 (0)	0	0.00	2,713 (0)	24,475 (0)
2016	80	1.00	3,046 (1)	25,932 (1)	8	1.00	3,046 (1)	25,932 (1)
2017	3,650	1.00	3,176 (1)	27,447 (1)	0	0.00	3,176 (0)	27,447 (0)
2018	69	1.00	3,146 (1)	29,673 (1)	0	0.00	3,146 (0)	29,673 (0)
2019	101	1.00	3,224 (1)	28,637 (1)	1,821	0.73	3,224 (2)	28,637 (2)
2020	1,603	0.98	3,926 (2)	35,760 (2)	0	0.00	3,926 (0)	35,760 (0)
2021	9	1.00	3,821 (1)	34,499 (1)	0	0.00	3,821 (0)	34,499 (0)
2022	25	1.00	3,264 (1)	26,269 (1)	0	0.00	3,264 (0)	26,269 (0)
2023	16	1.00	3,405 (1)	28,652 (1)	0	0.00	3,405 (0)	28,652 (0)
2024	4,733	1.00	3,189 (1)	26,192 (1)	0	0.00	3,189 (0)	26,192 (0)

Table 5.2. Hogfish landings (AB1) and discards (B2), in numbers of fish, with associated coefficients of variation (CV; Dettloff et al. 2020) by year for all modes combined from all data sources (MRIP) for the WFS domain (the Florida panhandle through western Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	AB1				B2			
	Total	CV	PSU	Trp	Total	CV	PSU	Trp
1981	58,163	0.65	387 (3)	2,695 (5)	0	0.00	387 (0)	2,695 (0)
1982	13,187	0.67	530 (3)	4,107 (4)	0	0.00	530 (0)	4,107 (0)
1983	19,922	0.73	287 (2)	2,663 (2)	0	0.00	287 (0)	2,663 (0)
1984	0	0.00	306 (0)	3,024 (0)	0	0.00	306 (0)	3,024 (0)
1985	0	0.00	415 (0)	3,861 (0)	0	0.00	415 (0)	3,861 (0)
1986	49,587	0.69	864 (4)	5,082 (6)	0	0.00	864 (0)	5,082 (0)
1987	99,746	0.56	1,083 (9)	7,013 (15)	6,828	1.00	1,083 (1)	7,013 (1)
1988	59,417	0.33	1,229 (14)	8,478 (16)	0	0.00	1,229 (0)	8,478 (0)
1989	109,262	0.53	736 (10)	5,606 (12)	3,471	1.00	736 (1)	5,606 (1)
1990	59,179	0.65	558 (3)	4,526 (3)	0	0.00	558 (0)	4,526 (0)
1991	148,305	0.44	539 (7)	4,424 (12)	0	0.00	539 (0)	4,424 (0)
1992	78,425	0.51	993 (12)	11,223 (15)	4,522	1.00	993 (1)	11,223 (1)
1993	91,847	0.37	1,050 (14)	11,930 (21)	0	0.00	1,050 (0)	11,930 (0)
1994	54,325	0.34	1,091 (15)	14,176 (20)	0	0.00	1,091 (0)	14,176 (0)
1995	104,008	0.33	950 (16)	12,691 (18)	4,797	0.71	950 (2)	12,691 (2)
1996	32,345	0.35	1,062 (13)	12,420 (16)	14,295	0.78	1,062 (2)	12,420 (2)
1997	68,428	0.30	1,113 (18)	13,054 (18)	758	1.00	1,113 (1)	13,054 (1)
1998	75,830	0.30	1,398 (23)	16,912 (30)	7,171	0.67	1,398 (4)	16,912 (7)
1999	97,333	0.25	1,940 (31)	24,152 (34)	9,699	0.86	1,940 (3)	24,152 (3)
2000	50,080	0.37	1,723 (11)	21,853 (13)	1,731	1.00	1,723 (1)	21,853 (1)
2001	94,891	0.36	1,631 (19)	22,453 (23)	0	0.00	1,631 (0)	22,453 (0)
2002	45,361	0.47	1,736 (15)	24,465 (16)	703	1.00	1,736 (1)	24,465 (1)
2003	120,509	0.28	2,064 (29)	25,045 (36)	964	1.00	2,064 (1)	25,045 (1)
2004	95,699	0.48	1,538 (14)	23,288 (15)	1,557	1.00	1,538 (1)	23,288 (1)
2005	57,482	0.55	1,375 (13)	20,750 (14)	5,687	0.71	1,375 (2)	20,750 (4)
2006	61,644	0.48	1,326 (13)	20,082 (13)	2,122	0.81	1,326 (2)	20,082 (2)
2007	75,683	0.39	1,296 (15)	19,818 (18)	549	1.00	1,296 (1)	19,818 (1)
2008	206,453	0.30	1,387 (24)	18,667 (28)	10,819	0.55	1,387 (5)	18,667 (5)
2009	115,761	0.28	1,446 (24)	20,051 (33)	6,632	0.50	1,446 (5)	20,051 (5)
2010	215,686	0.35	1,444 (20)	20,182 (24)	12,481	0.67	1,444 (3)	20,182 (4)

Year	AB1				B2			
	Total	CV	PSU	Trp	Total	CV	PSU	Trp
2011	107,647	0.29	1,519 (22)	21,311 (28)	1,512	1.00	1,519 (1)	21,311 (1)
2012	170,360	0.33	1,725 (24)	23,234 (40)	0	0.00	1,725 (0)	23,234 (0)
2013	241,845	0.42	1,316 (25)	15,968 (34)	7,081	0.56	1,316 (4)	15,968 (7)
2014	115,190	0.27	1,555 (40)	19,503 (55)	13,415	0.81	1,555 (5)	19,503 (20)
2015	104,062	0.39	1,652 (32)	18,818 (42)	1,373	0.67	1,652 (4)	18,818 (6)
2016	295,019	0.34	1,888 (43)	19,541 (57)	24,844	0.62	1,888 (6)	19,541 (7)
2017	113,078	0.29	1,452 (37)	16,538 (55)	37,274	0.47	1,452 (17)	16,538 (33)
2018	58,938	0.34	1,349 (27)	13,600 (37)	38,017	0.38	1,349 (12)	13,600 (27)
2019	62,472	0.26	1,326 (24)	12,779 (31)	42,949	0.55	1,326 (10)	12,779 (27)
2020	63,401	0.37	1,534 (23)	13,745 (31)	39,091	0.35	1,534 (14)	13,745 (35)
2021	68,174	0.43	1,654 (28)	13,440 (35)	60,485	0.28	1,654 (28)	13,440 (64)
2022	46,856	0.42	1,493 (19)	10,639 (27)	110,727	0.55	1,493 (14)	10,639 (45)
2023	154,142	0.30	1,716 (37)	14,108 (46)	189,913	0.42	1,716 (29)	14,108 (74)
2024	152,845	0.32	1,702 (45)	15,139 (62)	70,514	0.40	1,702 (32)	15,139 (94)

Table 5.3. Hogfish landings (AB1) and discards (B2), in numbers of fish, with associated coefficients of variation (CV; Dettloff et al. 2020) by year for all modes combined from all data sources (MRIP) for the **Keys_EFL** domain (the Florida Keys through northeastern Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	AB1				B2			
	Total	CV	PSU	Trp	Total	CV	PSU	Trp
1981	1,876,238	0.66	52 (7)	456 (18)	0	0.00	52 (0)	456 (0)
1982	155,783	0.53	88 (7)	699 (8)	0	0.00	88 (0)	699 (0)
1983	282,604	0.66	60 (3)	556 (4)	0	0.00	60 (0)	556 (0)
1984	9,679,484	0.92	106 (9)	670 (17)	0	0.00	106 (0)	670 (0)
1985	253,464	0.96	37 (2)	289 (6)	0	0.00	37 (0)	289 (0)
1986	197,914	0.45	81 (7)	386 (8)	0	0.00	81 (0)	386 (0)
1987	399,899	0.29	173 (25)	948 (34)	2,809	1.00	173 (1)	948 (1)
1988	302,578	0.46	111 (10)	646 (15)	238,584	0.99	111 (2)	646 (4)
1989	245,769	0.43	102 (11)	597 (15)	5,558	1.00	102 (1)	597 (1)
1990	358,954	0.39	120 (11)	640 (20)	16,659	0.67	120 (3)	640 (3)
1991	128,420	0.69	222 (3)	1,090 (4)	0	0.00	222 (0)	1,090 (0)
1992	342,136	0.28	311 (23)	1,855 (34)	35,111	0.63	311 (5)	1,855 (6)
1993	391,776	0.32	457 (20)	2,440 (25)	5,496	1.00	457 (1)	2,440 (1)
1994	284,153	0.35	356 (21)	2,171 (28)	22,660	0.64	356 (3)	2,171 (4)
1995	229,790	0.49	331 (13)	2,027 (20)	70,639	0.54	331 (6)	2,027 (13)
1996	158,963	0.37	356 (13)	2,412 (13)	26,752	0.63	356 (3)	2,412 (6)
1997	95,458	0.43	390 (13)	2,669 (14)	11,748	0.48	390 (4)	2,669 (5)
1998	69,212	0.46	372 (10)	3,095 (10)	31,580	0.50	372 (6)	3,095 (8)
1999	139,890	0.52	501 (10)	4,823 (10)	32,529	0.50	501 (8)	4,823 (8)
2000	50,766	0.61	481 (4)	5,304 (4)	14,405	1.00	481 (1)	5,304 (1)
2001	101,096	0.69	351 (4)	4,955 (4)	10,052	0.99	351 (2)	4,955 (3)
2002	114,597	0.65	326 (6)	4,192 (7)	3,258	1.00	326 (1)	4,192 (1)
2003	193,892	0.43	313 (19)	4,522 (24)	25,737	0.70	313 (4)	4,522 (6)
2004	237,706	0.48	223 (20)	3,206 (24)	73,475	0.54	223 (5)	3,206 (11)
2005	234,173	0.64	197 (10)	2,852 (12)	151,184	0.76	197 (5)	2,852 (8)
2006	181,111	0.33	148 (16)	2,052 (17)	36,582	0.69	148 (4)	2,052 (7)
2007	261,697	0.34	247 (18)	2,427 (23)	57,568	0.70	247 (4)	2,427 (6)
2008	518,171	0.51	340 (23)	3,229 (36)	36,833	0.55	340 (6)	3,229 (8)
2009	357,516	0.39	204 (14)	1,920 (15)	10,374	0.99	204 (3)	1,920 (3)
2010	280,313	0.62	235 (11)	2,425 (14)	9,086	0.97	235 (2)	2,425 (5)

Year	AB1				B2			
	Total	CV	PSU	Trp	Total	CV	PSU	Trp
2011	117,795	0.51	248 (10)	2,270 (10)	3,767	0.95	248 (3)	2,270 (3)
2012	562,527	0.68	281 (16)	2,410 (24)	52,879	0.74	281 (5)	2,410 (16)
2013	201,095	0.35	250 (26)	1,860 (37)	55,287	0.62	250 (11)	1,860 (16)
2014	407,725	0.31	379 (47)	3,062 (75)	93,108	0.33	379 (18)	3,062 (28)
2015	708,554	0.26	386 (51)	2,620 (69)	62,309	0.59	386 (11)	2,620 (24)
2016	333,598	0.27	317 (32)	1,631 (41)	38,963	0.57	317 (7)	1,631 (7)
2017	113,203	0.37	237 (15)	1,286 (19)	57,745	0.80	237 (9)	1,286 (15)
2018	27,027	0.63	278 (3)	1,747 (3)	43,049	0.74	278 (5)	1,747 (7)
2019	8,311	0.00	275 (0)	1,386 (0)	43,937	0.87	275 (5)	1,386 (5)
2020	13,122	0.72	301 (3)	1,529 (3)	44,619	0.60	301 (9)	1,529 (13)
2021	35,679	0.64	364 (3)	2,272 (3)	87,872	0.34	364 (19)	2,272 (23)
2022	29,835	0.63	308 (3)	1,391 (3)	77,594	0.43	308 (12)	1,391 (14)
2023	22,887	0.99	382 (2)	2,270 (2)	115,873	0.31	382 (18)	2,270 (22)
2024	22,904	0.00	397 (0)	2,802 (0)	47,160	0.34	397 (16)	2,802 (21)

Table 6.1. Hogfish landings in pounds whole weight (LBS) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP, LACreel 2014+, TPWD) for the **Outside of FL** domain (Texas through North Carolina, excluding Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt		Priv		Shore		Total	
	LBS	CV	LBS	CV	LBS	CV	LBS	CV
1981	0	0.00	0	0.00	0	0.00	0	0.00
1982	0	0.00	29,320	1.00	214,925	1.00	244,245	0.90
1983	0	0.00	0	0.00	0	0.00	0	0.00
1984	0	0.00	0	0.00	0	0.00	0	0.00
1985	0	0.00	45,388	0.92	7,515	0.75	52,904	0.74
1986	0	0.00	12,084	1.00	19,291	1.00	31,376	0.75
1987	0	0.00	3,831	0.85	0	0.00	3,831	0.85
1988	3,722	1.00	0	0.00	0	0.00	3,722	1.00
1989	908	0.84	0	0.00	0	0.00	908	0.84
1990	0	0.00	1,469	0.72	6,437	1.00	7,906	0.82
1991	0	0.00	0	0.00	0	0.00	0	0.00
1992	534	0.63	594	1.00	0	0.00	1,128	0.65
1993	3,193	0.58	1,259	1.00	0	0.00	4,452	0.53
1994	164	1.00	0	0.00	0	0.00	164	1.00
1995	58,727	0.52	10,857	0.71	0	0.00	69,584	0.60
1996	0	0.00	0	0.00	0	0.00	0	0.00
1997	392	1.00	0	0.00	0	0.00	392	1.00
1998	3,907	1.00	0	0.00	0	0.00	3,907	1.00
1999	678	1.00	0	0.00	0	0.00	678	1.00
2000	100	1.00	0	0.00	0	0.00	100	1.00
2001	0	0.00	0	0.00	0	0.00	0	0.00
2002	8,392	0.99	0	0.00	0	0.00	8,392	0.99
2003	538	0.92	0	0.00	0	0.00	538	0.92
2004	0	0.00	1,460	1.00	0	0.00	1,460	1.00
2005	0	0.00	5,849	0.72	0	0.00	5,849	0.70
2006	128	1.00	8,524	0.68	0	0.00	8,652	0.67
2007	70	1.00	1,883	1.00	0	0.00	1,953	0.96
2008	11	1.00	2,066	1.00	0	0.00	2,077	0.99
2009	70	1.00	1,010	1.00	0	0.00	1,079	0.94
2010	207	1.00	6,824	0.71	0	0.00	7,031	0.69

Year	Cbt		Priv		Shore		Total	
	LBS	CV	LBS	CV	LBS	CV	LBS	CV
2011	0	0.00	543	1.00	0	0.00	543	1.00
2012	119	1.00	5,827	0.93	0	0.00	5,946	0.91
2013	279	0.71	1,162	1.00	0	0.00	1,441	0.83
2014	0	0.00	0	0.00	0	0.00	0	0.00
2015	0	0.00	0	0.00	0	0.00	0	0.00
2016	167	1.00	0	0.00	0	0.00	167	1.00
2017	0	0.00	7,862	1.00	0	0.00	7,862	1.00
2018	168	1.00	0	0.00	0	0.00	168	1.00
2019	245	1.00	0	0.00	0	0.00	245	1.00
2020	75	1.00	0	0.00	3,820	1.00	3,895	0.98
2021	23	1.00	0	0.00	0	0.00	23	1.00
2022	86	1.00	0	0.00	0	0.00	86	1.00
2023	52	1.00	0	0.00	0	0.00	52	1.00
2024	0	0.00	17,254	1.00	0	0.00	17,254	1.00

Table 6.2. Hogfish landings in pounds whole weight (LBS) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP) for the WFS domain (the Florida panhandle through western Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt		Priv		Shore		Total	
	LBS	CV	LBS	CV	LBS	CV	LBS	CV
1981	0	0.00	78,568	0.68	0	0.00	78,568	0.67
1982	0	0.00	24,280	0.71	0	0.00	24,280	0.71
1983	0	0.00	41,438	0.78	0	0.00	41,438	0.78
1984	0	0.00	0	0.00	0	0.00	0	0.00
1985	0	0.00	0	0.00	0	0.00	0	0.00
1986	7,647	0.72	117,873	0.78	0	0.00	125,521	0.71
1987	2,332	0.84	214,772	0.63	0	0.00	217,104	0.62
1988	0	0.00	140,540	0.37	0	0.00	140,540	0.36
1989	3,928	0.88	247,925	0.54	0	0.00	251,853	0.53
1990	0	0.00	118,390	0.67	0	0.00	118,390	0.66
1991	0	0.00	268,388	0.50	0	0.00	268,388	0.49
1992	0	0.00	193,698	0.61	0	0.00	193,698	0.58
1993	0	0.00	170,043	0.40	0	0.00	170,043	0.40
1994	0	0.00	95,668	0.37	0	0.00	95,668	0.37
1995	0	0.00	225,326	0.57	0	0.00	225,326	0.55
1996	0	0.00	52,916	0.40	0	0.00	52,916	0.39
1997	0	0.00	112,034	0.36	16,004	1.00	128,038	0.34
1998	11,071	0.60	132,155	0.38	0	0.00	143,226	0.35
1999	1,563	0.70	196,016	0.32	0	0.00	197,579	0.31
2000	0	0.00	138,954	0.37	0	0.00	138,954	0.37
2001	639	0.66	153,232	0.43	13,739	1.00	167,611	0.40
2002	1,054	0.70	98,596	0.53	3,801	1.00	103,451	0.49
2003	1,248	0.55	236,133	0.31	0	0.00	237,382	0.30
2004	274	0.72	195,716	0.49	0	0.00	195,989	0.49
2005	807	0.88	158,673	0.58	0	0.00	159,480	0.57
2006	87	1.00	104,304	0.54	0	0.00	104,390	0.53
2007	1,502	0.67	114,035	0.41	0	0.00	115,538	0.40
2008	729	0.71	374,830	0.34	18,714	0.71	394,273	0.32
2009	1,675	0.71	246,725	0.32	4,461	0.90	252,861	0.31
2010	48,114	0.81	484,076	0.38	0	0.00	532,190	0.36

Year	Cbt		Priv		Shore		Total	
	LBS	CV	LBS	CV	LBS	CV	LBS	CV
2011	6,235	0.76	219,463	0.32	0	0.00	225,698	0.31
2012	10,482	0.48	430,857	0.38	0	0.00	441,339	0.37
2013	900	0.89	556,828	0.46	0	0.00	557,728	0.45
2014	7,166	0.56	209,496	0.32	15,985	1.00	232,648	0.29
2015	7,634	0.56	244,715	0.42	0	0.00	252,348	0.41
2016	25,040	0.73	633,307	0.38	0	0.00	658,347	0.37
2017	15,393	0.49	303,440	0.36	0	0.00	318,833	0.33
2018	35,082	0.41	92,924	0.46	0	0.00	128,006	0.36
2019	14,547	0.52	125,548	0.35	0	0.00	140,095	0.29
2020	20,777	0.40	109,428	0.44	0	0.00	130,205	0.37
2021	30,949	0.39	113,592	0.54	0	0.00	144,541	0.44
2022	16,659	0.44	105,252	0.51	0	0.00	121,912	0.43
2023	74,006	0.52	270,690	0.37	0	0.00	344,696	0.32
2024	36,797	0.52	327,391	0.37	0	0.00	364,188	0.38

Table 6.3. Hogfish landings in pounds whole weight (LBS) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP) for the **Keys_EFL** domain (the Florida Keys through northeastern Florida). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Hogfish.

Year	Cbt		Priv		Shore		Total	
	LBS	CV	LBS	CV	LBS	CV	LBS	CV
1981	0	0.00	2,691,775	0.69	0	0.00	2,691,775	0.68
1982	0	0.00	346,218	0.69	0	0.00	346,218	0.59
1983	0	0.00	773,394	0.73	0	0.00	773,394	0.73
1984	47	1.00	11,030,951	0.93	69,724	0.72	11,100,723	0.92
1985	0	0.00	325,370	1.00	13,388	1.00	338,758	0.96
1986	0	0.00	373,179	0.54	29,470	1.00	402,649	0.50
1987	26,543	1.00	713,469	0.45	65,381	0.73	805,394	0.42
1988	0	0.00	719,516	0.49	0	0.00	719,516	0.48
1989	173	1.00	457,178	0.44	0	0.00	457,351	0.43
1990	0	0.00	744,966	0.44	0	0.00	744,966	0.42
1991	0	0.00	239,892	0.71	0	0.00	239,892	0.71
1992	184	1.00	671,278	0.48	74,373	0.53	745,834	0.42
1993	0	0.00	722,833	0.38	18,315	0.82	741,148	0.35
1994	0	0.00	452,241	0.40	17,161	0.57	469,402	0.38
1995	0	0.00	610,499	0.65	3,563	0.00	614,063	0.63
1996	0	0.00	312,650	0.42	0	0.00	312,650	0.41
1997	884	1.00	189,969	0.48	3,532	1.00	194,385	0.46
1998	64	0.72	124,010	0.50	0	0.00	124,074	0.49
1999	145	0.79	286,833	0.62	18,638	0.80	305,617	0.54
2000	39	1.00	125,116	0.72	11,392	1.00	136,547	0.61
2001	384	1.00	203,240	0.70	7,352	0.00	210,976	0.70
2002	347	0.61	239,830	0.72	20,954	0.00	261,131	0.66
2003	3,277	0.77	347,298	0.44	15,666	0.00	366,241	0.44
2004	6,424	0.53	453,444	0.58	30,472	0.63	490,340	0.49
2005	1,694	0.53	580,170	0.68	26,594	1.00	608,458	0.66
2006	2,371	0.54	340,287	0.48	20,252	1.00	362,909	0.40
2007	671	0.71	485,750	0.36	0	0.00	486,421	0.36
2008	10,903	0.72	1,000,049	0.53	8,216	0.00	1,019,168	0.52
2009	134	1.00	794,482	0.43	3,330	0.00	797,946	0.41
2010	2,569	0.46	595,535	0.63	0	0.00	598,105	0.62

Year	Cbt		Priv		Shore		Total	
	LBS	CV	LBS	CV	LBS	CV	LBS	CV
2011	827	0.58	217,116	0.57	16,508	1.00	234,452	0.52
2012	2,705	0.75	1,242,235	0.70	4,639	1.00	1,249,580	0.69
2013	1,236	0.41	463,587	0.40	7,522	0.74	472,346	0.39
2014	9,371	0.44	723,016	0.35	25,792	1.00	758,179	0.33
2015	6,025	0.54	1,160,308	0.32	166,046	0.63	1,332,379	0.29
2016	11,668	0.52	581,265	0.32	58,336	0.95	651,269	0.31
2017	5,090	0.60	201,055	0.45	0	0.00	206,145	0.40
2018	0	0.00	65,145	0.64	0	0.00	65,145	0.64
2019	0	0.00	20,198	0.17	0	0.00	20,198	0.13
2020	20	1.00	30,036	0.72	0	0.00	30,056	0.72
2021	0	0.00	83,249	0.65	0	0.00	83,249	0.64
2022	952	0.06	64,826	0.72	16,901	1.00	82,680	0.64
2023	2,605	1.00	54,539	1.00	0	0.00	57,144	0.99
2024	7,617	0.27	77,422	0.13	0	0.00	85,039	0.21

Table 7.1. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Hogfish by mode and year for the **Outside of FL** domain (Texas through North Carolina, excluding Florida). Summaries include the number of fish weighed by MRIP and, in parentheses, the number of angler trips from which those fish were weighed (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights. Summaries include observed and imputed weights.

Year	Cbt					Priv					Shore				
	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1981	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1982	0 (0)	0.0	0.0	0.0	0.0	2 (1)	0.2	0.2	0.0	0.2	10 (2)	0.4	1.3	0.7	2.9
1983	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1984	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1985	0 (0)	0.0	0.0	0.0	0.0	6 (2)	0.7	1.7	1.3	3.7	6 (2)	0.2	0.3	0.1	0.4
1986	0 (0)	0.0	0.0	0.0	0.0	7 (2)	0.5	3.0	3.1	8.2	1 (1)	0.2	0.2	0.0	0.2
1987	0 (0)	0.0	0.0	0.0	0.0	4 (2)	1.7	2.5	0.6	3.1	0 (0)	0.0	0.0	0.0	0.0
1988	1 (1)	11.0	11.0	0.0	11.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1989	2 (2)	8.6	9.6	1.4	10.6	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1990	0 (0)	0.0	0.0	0.0	0.0	1 (1)	0.8	0.8	0.0	0.8	1 (1)	8.0	8.0	0.0	8.0
1991	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1992	9 (6)	6.0	7.9	2.0	11.3	1 (1)	16.6	16.6	0.0	16.6	0 (0)	0.0	0.0	0.0	0.0
1993	9 (4)	3.4	5.5	2.3	10.2	1 (1)	9.1	9.1	0.0	9.1	0 (0)	0.0	0.0	0.0	0.0
1994	1 (1)	4.6	4.6	0.0	4.6	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1995	99 (11)	0.4	2.0	0.9	4.8	11 (4)	1.1	3.7	5.0	18.5	0 (0)	0.0	0.0	0.0	0.0
1996	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1997	1 (1)	5.7	5.7	0.0	5.7	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1998	5 (1)	2.2	4.6	4.0	11.4	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1999	1 (1)	11.0	11.0	0.0	11.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2000	1 (1)	12.6	12.6	0.0	12.6	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2001	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2002	5 (1)	1.4	5.9	6.8	17.2	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0

Year	Cbt					Priv					Shore				
	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2003	2 (2)	4.7	6.1	2.0	7.5	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2004	0 (0)	0.0	0.0	0.0	0.0	1 (1)	2.9	2.9	0.0	2.9	0 (0)	0.0	0.0	0.0	0.0
2005	0 (0)	0.0	0.0	0.0	0.0	2 (2)	8.5	10.1	2.2	11.6	0 (0)	0.0	0.0	0.0	0.0
2006	1 (1)	3.8	3.8	0.0	3.8	5 (4)	4.4	8.9	4.0	12.7	0 (0)	0.0	0.0	0.0	0.0
2007	1 (1)	3.8	3.8	0.0	3.8	1 (1)	1.3	1.3	0.0	1.3	0 (0)	0.0	0.0	0.0	0.0
2008	1 (1)	13.3	13.3	0.0	13.3	1 (1)	1.9	1.9	0.0	1.9	0 (0)	0.0	0.0	0.0	0.0
2009	1 (1)	13.2	13.2	0.0	13.2	1 (1)	11.4	11.4	0.0	11.4	0 (0)	0.0	0.0	0.0	0.0
2010	1 (1)	8.4	8.4	0.0	8.4	4 (2)	1.8	4.9	4.3	11.4	0 (0)	0.0	0.0	0.0	0.0
2011	0 (0)	0.0	0.0	0.0	0.0	1 (1)	8.8	8.8	0.0	8.8	0 (0)	0.0	0.0	0.0	0.0
2012	1 (1)	1.9	1.9	0.0	1.9	7 (2)	9.2	12.2	2.4	16.1	0 (0)	0.0	0.0	0.0	0.0
2013	3 (2)	1.9	6.7	4.4	10.6	1 (1)	15.4	15.4	0.0	15.4	0 (0)	0.0	0.0	0.0	0.0
2014	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2015	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2016	3 (1)	2.4	5.8	5.9	12.6	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2017	0 (0)	0.0	0.0	0.0	0.0	2 (1)	7.7	12.3	6.5	17.0	0 (0)	0.0	0.0	0.0	0.0
2018	3 (1)	1.1	5.5	6.3	12.8	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2019	1 (1)	4.3	4.3	0.0	4.3	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2020	1 (1)	4.3	4.3	0.0	4.3	0 (0)	0.0	0.0	0.0	0.0	3 (1)	0.1	0.1	0.0	0.1
2021	1 (1)	15.2	15.2	0.0	15.2	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2022	1 (1)	12.3	12.3	0.0	12.3	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2023	1 (1)	13.2	13.2	0.0	13.2	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2024	0 (0)	0.0	0.0	0.0	0.0	5 (1)	2.1	3.1	0.7	3.7	0 (0)	0.0	0.0	0.0	0.0

Table 7.2. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Hogfish by mode and year for the WFS domain (the Florida panhandle through western Florida). Summaries include the number of fish weighed by MRIP and, in parentheses, the number of angler trips from which those fish were weighed (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights. Summaries include observed and imputed weights.

Year	Cbt					Priv					Shore				
	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1981	0 (0)	0.0	0.0	0.0	0.0	136 (26)	0.4	1.4	1.1	9.9	0 (0)	0.0	0.0	0.0	0.0
1982	0 (0)	0.0	0.0	0.0	0.0	42 (18)	0.4	2.2	2.1	8.0	0 (0)	0.0	0.0	0.0	0.0
1983	0 (0)	0.0	0.0	0.0	0.0	28 (11)	0.4	2.4	2.1	7.3	0 (0)	0.0	0.0	0.0	0.0
1984	0 (0)	0.0	0.0	0.0	0.0	52 (18)	0.7	1.3	0.5	2.7	5 (5)	0.7	1.4	0.7	2.5
1985	0 (0)	0.0	0.0	0.0	0.0	11 (6)	0.5	2.0	1.0	3.7	2 (2)	1.1	1.6	0.7	2.1
1986	0 (0)	0.0	0.0	0.0	0.0	35 (10)	0.5	1.7	1.1	4.9	1 (1)	2.2	2.2	0.0	2.2
1987	8 (2)	0.7	3.3	2.9	7.8	105 (40)	0.7	2.1	1.6	8.5	2 (2)	0.7	0.9	0.3	1.1
1988	0 (0)	0.0	0.0	0.0	0.0	9 (4)	0.4	2.5	3.2	10.7	0 (0)	0.0	0.0	0.0	0.0
1989	1 (1)	1.4	1.4	0.0	1.4	38 (15)	0.5	1.6	1.1	5.5	0 (0)	0.0	0.0	0.0	0.0
1990	0 (0)	0.0	0.0	0.0	0.0	49 (21)	0.7	1.9	1.2	7.0	0 (0)	0.0	0.0	0.0	0.0
1991	0 (0)	0.0	0.0	0.0	0.0	37 (9)	0.7	1.7	1.4	8.4	0 (0)	0.0	0.0	0.0	0.0
1992	0 (0)	0.0	0.0	0.0	0.0	124 (47)	0.4	1.9	1.5	8.1	1 (1)	1.8	1.8	0.0	1.8
1993	0 (0)	0.0	0.0	0.0	0.0	117 (40)	0.4	1.7	1.1	7.1	4 (4)	0.5	1.1	0.8	2.2
1994	0 (0)	0.0	0.0	0.0	0.0	144 (50)	0.4	1.5	0.7	6.3	6 (5)	1.1	1.7	0.8	3.1
1995	0 (0)	0.0	0.0	0.0	0.0	78 (36)	0.7	2.9	2.3	9.3	1 (1)	2.2	2.2	0.0	2.2
1996	0 (0)	0.0	0.0	0.0	0.0	91 (28)	0.7	2.1	0.9	7.1	0 (0)	0.0	0.0	0.0	0.0
1997	8 (1)	1.4	6.5	3.0	10.6	53 (23)	0.4	2.2	1.5	7.4	1 (1)	2.2	2.2	0.0	2.2
1998	2 (2)	3.3	3.6	0.3	3.8	55 (30)	1.0	1.8	0.9	5.2	0 (0)	0.0	0.0	0.0	0.0
1999	4 (2)	1.2	2.0	0.6	2.3	96 (30)	0.9	2.4	1.7	7.7	2 (2)	0.8	1.0	0.3	1.2
2000	1 (1)	1.8	1.8	0.0	1.8	31 (13)	1.1	2.7	1.0	5.0	1 (1)	3.4	3.4	0.0	3.4
2001	2 (2)	1.7	2.7	1.4	3.7	65 (28)	0.9	2.4	1.4	7.1	1 (1)	3.9	3.9	0.0	3.9

Year	Cbt					Priv					Shore				
	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2002	4 (4)	1.6	2.0	0.4	2.5	66 (20)	0.7	2.3	1.3	8.6	3 (2)	0.8	1.6	1.1	2.8
2003	16 (12)	0.9	1.7	0.9	4.1	97 (36)	0.8	1.8	0.6	3.6	4 (2)	1.3	1.9	0.7	2.9
2004	29 (13)	0.8	1.8	0.6	3.5	84 (46)	1.1	3.0	1.4	6.6	3 (3)	1.1	1.7	0.6	2.2
2005	8 (6)	1.3	2.5	1.2	5.2	57 (29)	0.8	2.6	1.1	5.2	2 (2)	2.3	2.3	0.0	2.3
2006	7 (5)	1.6	2.1	0.6	3.0	48 (24)	1.1	2.4	1.4	6.1	1 (1)	1.8	1.8	0.0	1.8
2007	5 (3)	1.5	2.1	0.8	3.5	130 (64)	0.7	2.2	0.9	4.5	0 (0)	0.0	0.0	0.0	0.0
2008	26 (12)	0.9	1.7	0.8	3.5	85 (41)	0.9	1.9	0.7	3.7	1 (1)	2.9	2.9	0.0	2.9
2009	1 (1)	1.4	1.4	0.0	1.4	103 (43)	0.7	2.0	1.1	8.0	1 (1)	1.4	1.4	0.0	1.4
2010	11 (7)	1.1	1.7	0.5	2.5	61 (23)	1.1	1.9	0.6	3.4	0 (0)	0.0	0.0	0.0	0.0
2011	5 (4)	1.5	2.1	0.4	2.4	53 (25)	0.8	1.9	0.9	6.0	1 (1)	3.0	3.0	0.0	3.0
2012	11 (5)	1.0	1.8	0.6	3.1	119 (51)	1.0	2.2	1.2	7.1	2 (2)	0.7	1.4	1.0	2.2
2013	11 (7)	0.8	1.7	0.6	2.4	109 (49)	1.1	2.2	1.0	5.6	2 (2)	1.3	1.9	0.9	2.6
2014	38 (16)	1.1	1.8	0.6	3.2	221 (86)	0.8	1.7	0.7	5.0	7 (2)	1.3	2.4	1.4	4.9
2015	28 (10)	1.1	1.9	0.7	3.5	261 (89)	0.6	1.9	0.7	5.6	12 (8)	0.7	1.6	0.7	3.0
2016	20 (8)	1.1	2.4	1.4	5.3	156 (63)	0.9	1.9	0.8	5.2	4 (3)	1.2	1.8	0.9	3.1
2017	13 (7)	1.1	2.0	0.8	4.0	73 (30)	0.9	1.9	1.0	6.2	0 (0)	0.0	0.0	0.0	0.0
2018	0 (0)	0.0	0.0	0.0	0.0	12 (9)	1.2	2.3	1.0	4.4	0 (0)	0.0	0.0	0.0	0.0
2019	0 (0)	0.0	0.0	0.0	0.0	1 (1)	1.0	1.0	0.0	1.0	0 (0)	0.0	0.0	0.0	0.0
2020	1 (1)	2.6	2.6	0.0	2.6	8 (5)	0.1	2.5	1.6	4.9	0 (0)	0.0	0.0	0.0	0.0
2021	0 (0)	0.0	0.0	0.0	0.0	16 (9)	2.4	3.0	0.6	4.4	0 (0)	0.0	0.0	0.0	0.0
2022	3 (3)	2.3	3.1	1.1	4.3	19 (16)	1.6	2.9	0.9	5.0	1 (1)	1.3	1.3	0.0	1.3
2023	5 (4)	1.7	3.3	1.7	5.8	18 (10)	2.0	2.5	0.5	3.6	0 (0)	0.0	0.0	0.0	0.0
2024	10 (9)	2.2	3.8	1.1	5.0	19 (13)	1.8	3.7	1.2	6.6	0 (0)	0.0	0.0	0.0	0.0

Table 7.3. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Hogfish by mode and year for the **Keys_EFL** domain (the Florida Keys through northeastern Florida). Summaries include the number of fish weighed by MRIP and, in parentheses, the number of angler trips from which those fish were weighed (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights. Summaries include observed and imputed weights.

Year	Cbt					Priv					Shore				
	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1981	0 (0)	0.0	0.0	0.0	0.0	6 (5)	1.1	2.3	1.3	4.6	0 (0)	0.0	0.0	0.0	0.0
1982	0 (0)	0.0	0.0	0.0	0.0	5 (4)	1.1	3.4	2.0	5.6	0 (0)	0.0	0.0	0.0	0.0
1983	0 (0)	0.0	0.0	0.0	0.0	4 (2)	0.9	1.1	0.2	1.4	0 (0)	0.0	0.0	0.0	0.0
1984	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1985	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1986	22 (4)	0.8	1.7	1.0	3.6	20 (2)	0.5	2.7	1.1	4.5	0 (0)	0.0	0.0	0.0	0.0
1987	9 (4)	1.0	1.7	0.8	3.7	46 (11)	0.5	2.4	2.4	15.2	0 (0)	0.0	0.0	0.0	0.0
1988	0 (0)	0.0	0.0	0.0	0.0	13 (8)	0.4	2.9	1.3	5.4	0 (0)	0.0	0.0	0.0	0.0
1989	7 (2)	1.4	2.7	1.2	4.2	22 (10)	0.9	2.7	0.9	4.1	0 (0)	0.0	0.0	0.0	0.0
1990	0 (0)	0.0	0.0	0.0	0.0	9 (3)	1.1	2.5	1.0	3.8	0 (0)	0.0	0.0	0.0	0.0
1991	0 (0)	0.0	0.0	0.0	0.0	37 (12)	0.7	2.0	1.3	6.3	0 (0)	0.0	0.0	0.0	0.0
1992	0 (0)	0.0	0.0	0.0	0.0	34 (15)	0.4	2.7	2.1	10.6	0 (0)	0.0	0.0	0.0	0.0
1993	0 (0)	0.0	0.0	0.0	0.0	60 (21)	0.9	2.1	1.7	13.0	0 (0)	0.0	0.0	0.0	0.0
1994	0 (0)	0.0	0.0	0.0	0.0	51 (20)	0.7	2.0	1.0	4.2	0 (0)	0.0	0.0	0.0	0.0
1995	0 (0)	0.0	0.0	0.0	0.0	60 (18)	0.7	1.7	1.3	9.3	0 (0)	0.0	0.0	0.0	0.0
1996	0 (0)	0.0	0.0	0.0	0.0	28 (16)	0.7	1.6	0.9	3.2	0 (0)	0.0	0.0	0.0	0.0
1997	0 (0)	0.0	0.0	0.0	0.0	40 (17)	0.4	1.9	1.2	5.6	5 (1)	1.0	1.6	0.5	2.2
1998	12 (6)	0.7	1.8	0.8	2.7	54 (24)	0.9	1.9	0.9	5.0	0 (0)	0.0	0.0	0.0	0.0
1999	7 (4)	0.5	1.2	1.0	2.6	68 (30)	0.9	2.1	0.8	4.7	0 (0)	0.0	0.0	0.0	0.0
2000	0 (0)	0.0	0.0	0.0	0.0	30 (13)	0.9	2.7	1.2	5.9	0 (0)	0.0	0.0	0.0	0.0
2001	7 (3)	1.2	1.7	0.3	2.1	44 (19)	1.0	2.0	1.0	4.6	1 (1)	1.3	1.3	0.0	1.3

Year	Cbt					Priv					Shore				
	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2002	5 (3)	1.3	2.0	0.7	3.1	32 (12)	1.0	2.3	0.7	3.7	1 (1)	7.3	7.3	0.0	7.3
2003	18 (5)	1.0	2.1	0.6	3.1	88 (31)	0.9	2.0	0.6	3.7	0 (0)	0.0	0.0	0.0	0.0
2004	2 (2)	2.0	2.7	1.1	3.5	54 (13)	0.7	2.1	1.4	8.2	0 (0)	0.0	0.0	0.0	0.0
2005	10 (2)	1.3	2.4	0.9	4.0	27 (12)	1.3	2.7	0.8	3.8	0 (0)	0.0	0.0	0.0	0.0
2006	1 (1)	2.5	2.5	0.0	2.5	29 (12)	1.1	1.8	0.6	3.2	0 (0)	0.0	0.0	0.0	0.0
2007	3 (3)	1.9	2.0	0.1	2.0	43 (15)	0.7	1.6	0.5	2.8	0 (0)	0.0	0.0	0.0	0.0
2008	2 (2)	1.9	2.1	0.3	2.3	85 (24)	1.1	2.0	0.6	3.7	2 (2)	1.5	1.6	0.2	1.8
2009	2 (2)	0.9	1.3	0.6	1.8	81 (29)	0.7	2.2	0.7	4.0	2 (2)	1.4	1.6	0.4	1.9
2010	27 (2)	1.1	2.0	0.7	4.4	73 (22)	1.6	2.7	0.6	3.6	0 (0)	0.0	0.0	0.0	0.0
2011	30 (5)	1.3	2.3	0.6	3.4	74 (23)	0.8	2.2	0.8	4.3	0 (0)	0.0	0.0	0.0	0.0
2012	52 (17)	1.0	2.1	0.8	4.9	81 (23)	1.0	2.8	1.0	6.3	0 (0)	0.0	0.0	0.0	0.0
2013	8 (2)	1.4	2.0	0.4	2.5	98 (32)	1.1	2.5	1.0	4.9	0 (0)	0.0	0.0	0.0	0.0
2014	52 (14)	1.0	2.1	0.8	4.4	109 (40)	0.9	2.2	0.8	5.0	1 (1)	1.8	1.8	0.0	1.8
2015	43 (15)	1.1	1.8	0.7	3.6	90 (27)	1.1	2.4	0.8	4.5	0 (0)	0.0	0.0	0.0	0.0
2016	38 (13)	1.1	1.9	0.9	5.0	151 (44)	1.0	2.2	0.9	6.9	0 (0)	0.0	0.0	0.0	0.0
2017	104 (23)	1.1	2.0	0.7	5.1	81 (32)	1.0	2.8	1.4	7.3	0 (0)	0.0	0.0	0.0	0.0
2018	64 (21)	1.1	2.2	0.5	3.6	29 (16)	1.3	2.2	0.6	3.5	0 (0)	0.0	0.0	0.0	0.0
2019	35 (9)	1.7	2.2	0.5	3.4	44 (22)	0.6	2.3	1.1	5.5	0 (0)	0.0	0.0	0.0	0.0
2020	51 (17)	1.4	2.1	0.5	3.6	35 (14)	1.5	2.0	0.3	3.0	0 (0)	0.0	0.0	0.0	0.0
2021	95 (29)	1.4	2.1	0.5	4.5	22 (6)	1.4	2.0	0.5	2.7	0 (0)	0.0	0.0	0.0	0.0
2022	31 (16)	1.4	2.0	0.3	3.0	23 (11)	1.6	2.7	0.6	3.4	0 (0)	0.0	0.0	0.0	0.0
2023	71 (26)	1.5	2.1	0.6	4.8	44 (20)	0.9	2.3	0.8	3.9	0 (0)	0.0	0.0	0.0	0.0
2024	94 (38)	1.6	2.4	1.2	12.5	57 (24)	1.5	2.4	0.5	3.8	0 (0)	0.0	0.0	0.0	0.0

Table 8. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Hogfish by year. Summaries include the number of fish for which size information was collected by MRIP and, in parentheses, the number of angler trips from which those fish were sampled (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights.

Year	N	Weight			
		Min	Avg	SD	Max
1981	142 (31)	0.4	1.5	1.1	9.9
1982	59 (25)	0.2	2.1	2.0	8.0
1983	32 (13)	0.4	2.2	2.0	7.3
1984	57 (23)	0.7	1.3	0.5	2.7
1985	25 (12)	0.2	1.5	1.1	3.7
1986	86 (20)	0.2	2.0	1.4	8.2
1987	174 (61)	0.5	2.2	1.9	15.2
1988	23 (13)	0.4	3.1	2.8	11.0
1989	70 (30)	0.5	2.3	1.7	10.6
1990	60 (26)	0.7	2.1	1.4	8.0
1991	74 (21)	0.7	1.8	1.3	8.4
1992	169 (70)	0.4	2.5	2.4	16.6
1993	191 (70)	0.4	2.1	1.7	13.0
1994	202 (76)	0.4	1.7	0.8	6.3
1995	249 (70)	0.4	2.3	1.9	18.5
1996	119 (44)	0.7	2.0	0.9	7.1
1997	108 (44)	0.4	2.4	1.9	10.6
1998	128 (63)	0.7	2.0	1.2	11.4
1999	178 (69)	0.5	2.3	1.5	11.0
2000	64 (29)	0.9	2.9	1.7	12.6
2001	120 (54)	0.9	2.2	1.3	7.1
2002	116 (43)	0.7	2.4	1.9	17.2
2003	225 (88)	0.8	1.9	0.7	7.5
2004	173 (78)	0.7	2.5	1.4	8.2
2005	106 (53)	0.8	2.7	1.4	11.6
2006	92 (48)	1.1	2.5	2.1	12.7
2007	183 (87)	0.7	2.0	0.8	4.5
2008	203 (84)	0.9	2.0	1.0	13.3
2009	192 (80)	0.7	2.2	1.4	13.2
2010	177 (57)	1.1	2.3	1.1	11.4
2011	164 (59)	0.8	2.2	0.9	8.8
2012	273 (101)	0.7	2.6	1.9	16.1

Year	N	Weight			
		Min	Avg	SD	Max
2013	232 (95)	0.8	2.4	1.4	15.4
2014	428 (159)	0.8	1.9	0.8	5.0
2015	434 (149)	0.6	2.0	0.8	5.6
2016	372 (132)	0.9	2.1	1.1	12.6
2017	273 (93)	0.9	2.3	1.5	17.0
2018	108 (47)	1.1	2.3	1.2	12.8
2019	81 (33)	0.6	2.3	0.9	5.5
2020	99 (39)	0.1	2.0	0.7	4.9
2021	134 (45)	1.4	2.3	1.3	15.2
2022	78 (48)	1.3	2.6	1.3	12.3
2023	139 (61)	0.9	2.3	1.2	13.2
2024	185 (85)	1.5	2.6	1.1	12.5

Table 9.1. Estimated average weights of landed Hogfish in pounds whole weight (WGT) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP, LACreel 2014+, TPWD) for the **Outside of FL** domain (Texas through North Carolina, excluding Florida). Average weight estimates are calculated from annual estimates (by-mode) of landings-in-weight (whole, Table 6) divided by estimates of landings-in-number (Table 2). Sample size (N) is provided as the total number of angler trips and, in parentheses, number of fish from which weight information was collected.

Year	Shore			Cbt			Priv			Total		
	WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
1981												
1982	2.28	0.21	2 (10)				2.28	0.00	1 (2)	2.28	0.24	3 (12)
1983												
1984												
1985	1.28	0.00	2 (6)				2.32	0.00	2 (6)	2.08	0.00	4 (12)
1986	2.51	0.00	1 (1)				2.51	0.53	2 (7)	2.51	0.63	3 (8)
1987							3.04	0.00	2 (4)	3.04	0.00	2 (4)
1988				2.43	0.00	1 (1)				2.43	0.00	1 (1)
1989				2.43	0.00	2 (2)				2.43	0.00	2 (2)
1990	2.43	0.00	1 (1)				2.19	0.00	1 (1)	2.38	0.00	2 (2)
1991												
1992				2.48	0.15	6 (9)	2.48	0.00	1 (1)	2.48	0.12	7 (10)
1993				2.50	0.05	4 (9)	2.50	0.00	1 (1)	2.50	0.04	5 (10)
1994				1.51	0.00	1 (1)				1.51	0.00	1 (1)
1995				2.06	0.12	11 (99)	2.22	0.74	4 (11)	2.08	0.77	15 (110)
1996												
1997				2.42	0.00	1 (1)				2.42	0.00	1 (1)
1998				2.05	0.00	1 (5)				2.05	0.00	1 (5)
1999				2.66	0.00	1 (1)				2.66	0.00	1 (1)
2000				2.99	0.00	1 (1)				2.99	0.00	1 (1)
2001												
2002				2.58	0.00	1 (5)				2.58	0.00	1 (5)
2003				1.90	0.00	2 (2)				1.90	0.00	2 (2)
2004							3.22	0.00	1 (1)	3.22	0.00	1 (1)
2005							3.05	0.15	2 (2)	3.05	0.15	2 (2)
2006				3.93	0.00	1 (1)	3.93	0.22	4 (5)	3.93	0.23	5 (6)
2007				2.61	0.00	1 (1)	2.61	0.00	1 (1)	2.61	0.00	2 (2)
2008				2.19	0.00	1 (1)	2.19	0.00	1 (1)	2.19	0.00	2 (2)

Year	Shore			Cbt			Priv			Total		
	WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2009				2.27	0.00	1 (1)	2.27	0.00	1 (1)	2.27	0.00	2 (2)
2010				2.46	0.00	1 (1)	2.46	0.00	2 (4)	2.46	0.00	3 (5)
2011							1.97	0.00	1 (1)	1.97	0.00	1 (1)
2012				2.99	0.00	1 (1)	2.99	0.16	2 (7)	2.99	0.18	3 (8)
2013				2.75	0.00	2 (3)	2.75	0.00	1 (1)	2.75	0.00	3 (4)
2014												
2015												
2016				2.08	0.00	1 (3)				2.08	0.00	1 (3)
2017							2.15	0.00	1 (2)	2.15	0.00	1 (2)
2018				2.43	0.00	1 (3)				2.43	0.00	1 (3)
2019				2.43	0.00	1 (1)				2.43	0.00	1 (1)
2020	2.43	0.00	1 (3)	2.43	0.00	1 (1)				2.43	0.00	2 (4)
2021				2.43	0.00	1 (1)				2.43	0.00	1 (1)
2022				3.45	0.00	1 (1)				3.45	0.00	1 (1)
2023				3.23	0.00	1 (1)				3.23	0.00	1 (1)
2024							3.65	0.00	1 (5)	3.65	0.00	1 (5)

Table 9.2. Estimated average weights of landed Hogfish in pounds whole weight (WGT) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP) for the **WFS** domain (the Florida panhandle through western Florida). Average weight estimates are calculated from annual estimates (by-mode) of landings-in-weight (whole, Table 6) divided by estimates of landings-in-number (Table 2). Sample size (N) is provided as the total number of angler trips and, in parentheses, number of fish from which weight information was collected.

Year	Shore			Cbt			Priv			Total		
	WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
1981							1.35	0.28	5 (6)	1.35	0.28	5 (6)
1982							1.84	0.15	4 (5)	1.84	0.15	4 (5)
1983							2.08	0.12	2 (4)	2.08	0.12	2 (4)
1984												
1985												
1986				1.65	0.12	4 (22)	2.62	0.10	2 (20)	2.53	0.11	6 (42)
1987				2.01	0.19	4 (9)	2.18	0.35	11 (46)	2.18	0.33	15 (55)
1988							2.37	0.24	8 (13)	2.37	0.24	8 (13)
1989				2.00	0.00	2 (7)	2.31	0.03	10 (22)	2.31	0.03	12 (29)
1990							2.00	0.00	3 (9)	2.00	0.00	3 (9)
1991							1.81	0.23	12 (37)	1.81	0.23	12 (37)
1992							2.47	0.49	15 (34)	2.47	0.49	15 (34)
1993							1.85	0.17	21 (60)	1.85	0.17	21 (60)
1994							1.76	0.22	20 (51)	1.76	0.22	20 (51)
1995							2.17	0.09	18 (60)	2.17	0.09	18 (60)
1996							1.64	0.16	16 (28)	1.64	0.16	16 (28)
1997	2.44	0.00	1 (5)				1.81	0.21	17 (40)	1.87	0.21	18 (45)
1998				1.93	0.20	6 (12)	1.89	0.22	24 (54)	1.89	0.22	30 (66)
1999				1.95	0.00	4 (7)	2.03	0.13	30 (68)	2.03	0.13	34 (75)
2000							2.77	0.06	13 (30)	2.77	0.06	13 (30)
2001	1.91	0.00	1 (1)	1.91	0.04	3 (7)	1.75	0.22	19 (44)	1.77	0.21	23 (52)
2002	2.32	0.00	1 (1)	2.32	0.00	3 (5)	2.28	0.09	12 (32)	2.28	0.07	16 (38)
2003				1.85	0.07	5 (18)	1.97	0.11	31 (88)	1.97	0.10	36 (106)
2004				1.64	0.00	2 (2)	2.05	0.12	13 (54)	2.05	0.11	15 (56)
2005				2.28	0.00	2 (10)	2.78	0.17	12 (27)	2.77	0.16	14 (37)
2006				1.76	0.00	1 (1)	1.69	0.19	12 (29)	1.69	0.17	13 (30)
2007				1.61	0.01	3 (3)	1.53	0.06	15 (43)	1.53	0.06	18 (46)
2008	1.93	0.00	2 (2)	1.71	0.00	2 (2)	1.91	0.06	24 (85)	1.91	0.06	28 (89)
2009	2.09	0.00	2 (2)	2.09	0.00	2 (2)	2.19	0.17	29 (81)	2.18	0.17	33 (85)
2010				1.93	0.00	2 (27)	2.54	0.06	22 (73)	2.47	0.05	24 (100)

Year	Shore			Cbt			Priv			Total		
	WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2011	1.95	0.00	1 (1)	2.24	0.12	5 (30)	2.09	0.10	23 (74)	2.10	0.10	28 (104)
2012				1.93	0.13	17 (52)	2.61	0.14	23 (81)	2.59	0.14	40 (133)
2013				1.84	0.00	2 (8)	2.31	0.15	32 (98)	2.31	0.15	34 (106)
2014				2.11	0.14	14 (52)	2.02	0.13	40 (109)	2.02	0.13	55 (162)
2015				1.82	0.17	15 (43)	2.45	0.11	27 (90)	2.42	0.12	42 (133)
2016				2.09	0.30	13 (38)	2.24	0.10	44 (151)	2.23	0.16	57 (189)
2017				1.99	0.06	23 (104)	2.88	0.14	32 (81)	2.82	0.12	55 (185)
2018				2.23	0.10	21 (64)	2.15	0.09	16 (29)	2.17	0.10	37 (93)
2019				2.16	0.04	9 (35)	2.25	0.17	22 (44)	2.24	0.14	31 (79)
2020				2.04	0.06	17 (51)	2.06	0.09	14 (35)	2.05	0.07	31 (86)
2021				2.07	0.12	29 (95)	2.13	0.06	6 (22)	2.12	0.11	35 (117)
2022				2.02	0.08	16 (31)	2.73	0.10	11 (23)	2.60	0.09	27 (54)
2023				2.00	0.14	26 (71)	2.31	0.12	20 (44)	2.24	0.13	46 (115)
2024				2.37	0.31	38 (94)	2.38	0.09	24 (57)	2.38	0.25	62 (151)

Table 9.3. Estimated average weights of landed Hogfish in pounds whole weight (WGT) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP) for the **Keys_EFL** domain (the Florida Keys through northeastern Florida). Average weight estimates are calculated from annual estimates (by-mode) of landings-in-weight (whole, Table 6) divided by estimates of landings-in-number (Table 2). Sample size (N) is provided as the total number of angler trips and, in parentheses, number of fish from which weight information was collected.

Year	Shore			Cbt			Priv			Total		
	WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
1981							1.43	0.11	26 (136)	1.43	0.11	26 (136)
1982							2.22	0.36	18 (42)	2.22	0.36	18 (42)
1983							2.74	0.41	11 (28)	2.74	0.41	11 (28)
1984	1.18	0.30	5 (5)				1.15	0.10	18 (52)	1.15	0.16	23 (57)
1985	1.28	0.30	2 (2)				1.34	0.25	6 (11)	1.34	0.26	8 (13)
1986	1.91	0.00	1 (1)				2.05	0.11	10 (35)	2.03	0.11	11 (36)
1987	2.01	0.25	2 (2)	2.61	0.00	2 (8)	2.00	0.33	40 (105)	2.01	0.32	44 (115)
1988							2.38	0.00	4 (9)	2.38	0.00	4 (9)
1989				2.00	0.00	1 (1)	1.86	0.13	15 (38)	1.86	0.13	16 (39)
1990							2.08	0.20	21 (49)	2.08	0.20	21 (49)
1991							1.87	0.24	9 (37)	1.87	0.24	9 (37)
1992	2.44	0.00	1 (1)				2.15	0.33	47 (124)	2.18	0.33	48 (125)
1993	1.84	0.00	4 (4)				1.89	0.19	40 (117)	1.89	0.19	44 (121)
1994	1.72	0.24	5 (6)				1.65	0.10	50 (144)	1.65	0.12	55 (150)
1995	2.61	0.00	1 (1)				2.67	0.20	36 (78)	2.67	0.20	37 (79)
1996							1.97	0.19	28 (91)	1.97	0.19	28 (91)
1997	2.44	0.00	1 (1)	2.44	0.00	1 (8)	2.03	0.18	23 (53)	2.04	0.16	25 (62)
1998				1.93	0.00	2 (2)	1.79	0.18	30 (55)	1.79	0.16	32 (57)
1999	1.95	0.00	2 (2)	1.95	0.11	2 (4)	2.20	0.24	30 (96)	2.18	0.24	34 (102)
2000	2.77	0.00	1 (1)	2.77	0.00	1 (1)	2.68	0.05	13 (31)	2.69	0.04	15 (33)
2001	2.49	0.00	1 (1)	2.45	0.00	2 (2)	2.07	0.16	28 (65)	2.09	0.15	31 (68)
2002	2.22	0.00	2 (3)	2.28	0.00	4 (4)	2.28	0.20	20 (66)	2.28	0.18	26 (73)
2003	1.78	0.00	2 (4)	1.84	0.21	12 (16)	1.89	0.14	36 (97)	1.89	0.16	50 (117)
2004	2.02	0.26	3 (3)	1.89	0.07	13 (29)	2.07	0.10	46 (84)	2.06	0.10	62 (116)
2005	2.57	0.00	2 (2)	2.51	0.02	6 (8)	2.60	0.20	29 (57)	2.60	0.17	37 (67)
2006	1.76	0.00	1 (1)	1.76	0.12	5 (7)	2.02	0.15	24 (48)	2.00	0.15	30 (56)
2007				1.61	0.00	3 (5)	1.86	0.13	64 (130)	1.86	0.13	67 (135)
2008	1.89	0.00	1 (1)	1.78	0.07	12 (26)	1.97	0.15	41 (85)	1.97	0.14	54 (112)
2009	1.96	0.00	1 (1)	2.09	0.00	1 (1)	2.23	0.15	43 (103)	2.23	0.15	45 (105)
2010				1.95	0.09	7 (11)	2.13	0.09	23 (61)	2.13	0.09	30 (72)

Year	Shore			Cbt			Priv			Total		
	WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2011	2.22	0.00	1 (1)	2.25	0.04	4 (5)	1.97	0.14	25 (53)	1.99	0.13	30 (59)
2012	2.30	0.00	2 (2)	1.99	0.00	5 (11)	2.22	0.17	51 (119)	2.22	0.16	58 (132)
2013	2.27	0.00	2 (2)	1.84	0.05	7 (11)	2.35	0.25	49 (109)	2.35	0.24	58 (122)
2014	1.89	0.00	2 (7)	1.94	0.07	16 (38)	1.86	0.10	86 (221)	1.86	0.10	104 (266)
2015	1.99	0.16	8 (12)	1.79	0.17	10 (28)	1.87	0.12	89 (261)	1.88	0.13	107 (301)
2016	2.05	0.00	3 (4)	2.05	0.17	8 (20)	1.94	0.18	63 (156)	1.95	0.18	74 (180)
2017				1.97	0.13	7 (13)	1.82	0.25	30 (73)	1.82	0.24	37 (86)
2018							2.41	0.18	9 (12)	2.41	0.18	9 (12)
2019							2.43	0.00	1 (1)	2.43	0.00	1 (1)
2020				2.07	0.00	1 (1)	2.29	0.00	5 (8)	2.29	0.00	6 (9)
2021							2.33	0.00	9 (16)	2.33	0.00	9 (16)
2022	2.32	0.00	1 (1)	3.00	0.03	3 (3)	2.92	0.14	16 (19)	2.77	0.13	20 (23)
2023				2.74	0.14	4 (5)	2.49	0.06	10 (18)	2.50	0.10	14 (23)
2024				3.74	0.16	9 (10)	3.71	0.15	13 (19)	3.71	0.15	22 (29)

Table 10.1. Recreational Fishing Effort (in angler trips) for Gulf of America and South Atlantic anglers by mode and year from all data sources (MRIP, LACreel 2014+, TPWD) for the **Outside of FL** domain (Texas through northern North Carolina, excluding Florida). These effort estimates depict all (general) recreational fishing activity in the Gulf of America and South Atlantic and are not specific to Hogfish. Effort from the combined private-shore fishing mode in the LA Creel survey has been added to the private mode.

Year	Cbt	Priv	Shore	Total
1981	425,544	7,349,337	14,695,739	22,470,620
1982	321,608	7,817,596	14,091,270	22,230,474
1983	465,358	8,672,927	18,199,163	27,337,448
1984	507,085	8,589,473	17,103,422	26,199,980
1985	526,697	8,931,772	16,651,973	26,110,442
1986	399,945	9,179,695	16,547,147	26,126,787
1987	429,730	9,078,503	16,195,660	25,703,893
1988	375,746	9,095,411	17,663,816	27,134,973
1989	453,787	9,485,952	17,898,019	27,837,758
1990	425,311	9,824,002	20,458,074	30,707,387
1991	445,445	10,273,668	19,944,560	30,663,673
1992	470,311	10,669,952	20,279,012	31,419,275
1993	483,574	10,918,504	19,625,907	31,027,985
1994	533,105	10,978,667	19,477,633	30,989,405
1995	529,154	11,071,965	18,598,092	30,199,211
1996	531,199	11,699,788	19,275,073	31,506,060
1997	550,383	12,274,794	20,524,250	33,349,427
1998	551,279	12,482,113	20,757,493	33,790,885
1999	549,237	13,767,588	22,623,402	36,940,227
2000	601,301	14,725,107	26,841,250	42,167,658
2001	613,343	14,879,731	26,963,185	42,456,259
2002	589,587	14,682,827	26,831,497	42,103,911
2003	611,715	15,436,242	27,399,271	43,447,228
2004	633,503	15,980,986	28,857,160	45,471,649
2005	557,269	15,519,372	28,050,407	44,127,048
2006	659,667	16,087,966	30,964,369	47,712,002
2007	664,471	16,958,508	29,821,870	47,444,849
2008	603,722	17,882,384	31,768,758	50,254,864
2009	569,357	18,607,532	31,851,575	51,028,464
2010	453,765	19,155,705	33,246,278	52,855,748
2011	565,691	19,264,678	33,716,698	53,547,067
2012	602,321	18,757,228	32,858,845	52,218,394

Year	Cbt	Priv	Shore	Total
2013	546,601	18,328,208	35,139,534	54,014,343
2014	595,835	14,871,846	29,918,074	45,385,755
2015	686,685	15,410,468	32,061,889	48,159,042
2016	709,280	15,578,564	33,436,665	49,724,509
2017	741,870	16,861,329	35,535,858	53,139,057
2018	903,845	14,392,724	30,405,876	45,702,445
2019	1,019,293	14,968,677	31,655,939	47,643,909
2020	790,180	16,574,465	27,281,514	44,646,159
2021	888,120	14,895,261	33,834,151	49,617,532
2022	912,773	15,627,726	34,893,740	51,434,239
2023	1,369,659	15,163,532	30,947,301	47,480,492
2024	778,970	16,690,893	31,951,523	49,421,386

Table 10.2. Recreational Fishing Effort (in angler trips) for Gulf of America and South Atlantic anglers by mode and year from all data sources (MRIP) for the **WFS** domain (the Florida panhandle through western Florida). These effort estimates depict all (general) recreational fishing activity in the Gulf of America and South Atlantic and are not specific to Hogfish.

Year	Cbt	Priv	Shore	Total
1981	227,961	6,855,697	9,483,738	16,567,396
1982	379,692	6,886,986	10,687,581	17,954,259
1983	352,284	8,868,725	13,406,791	22,627,800
1984	340,382	8,766,959	13,423,022	22,530,363
1985	383,755	9,670,438	14,865,334	24,919,527
1986	403,932	9,301,834	12,120,679	21,826,445
1987	403,586	9,195,733	10,442,723	20,042,042
1988	357,189	11,771,311	14,210,813	26,339,313
1989	376,019	11,058,294	15,468,802	26,903,115
1990	381,480	11,830,757	12,773,129	24,985,366
1991	312,056	11,204,380	14,961,455	26,477,891
1992	346,806	11,398,541	12,850,024	24,595,371
1993	401,318	11,571,193	16,045,367	28,017,878
1994	404,592	11,958,134	15,982,887	28,345,613
1995	507,108	12,487,078	12,535,619	25,529,805
1996	462,160	12,146,722	10,768,219	23,377,101
1997	487,946	13,311,899	11,251,113	25,050,958
1998	476,625	14,689,619	13,061,519	28,227,763
1999	479,159	16,117,103	16,953,714	33,549,976
2000	427,947	15,144,762	19,799,596	35,372,305
2001	410,400	17,569,529	19,125,502	37,105,431
2002	418,401	17,206,983	17,267,162	34,892,546
2003	355,779	17,668,782	19,242,210	37,266,771
2004	431,658	21,147,941	21,792,755	43,372,354
2005	391,442	20,819,100	18,274,582	39,485,124
2006	404,131	18,437,130	16,574,464	35,415,725
2007	476,547	18,310,416	18,088,700	36,875,663
2008	444,476	19,749,880	16,136,205	36,330,561
2009	422,017	18,410,231	15,124,024	33,956,272
2010	359,474	19,162,557	18,001,496	37,523,527
2011	410,640	19,672,171	17,641,002	37,723,813
2012	539,756	21,320,642	19,687,164	41,547,562
2013	509,040	19,491,205	22,495,258	42,495,503
2014	487,883	16,719,191	17,873,580	35,080,654

Year	Cbt	Priv	Shore	Total
2015	549,429	15,277,311	16,622,293	32,449,033
2016	588,761	16,595,142	19,047,252	36,231,155
2017	609,241	17,090,823	21,638,790	39,338,854
2018	624,751	16,306,922	21,335,702	38,267,375
2019	590,736	14,051,663	18,613,107	33,255,506
2020	726,137	15,906,965	22,159,388	38,792,490
2021	805,138	15,363,607	18,262,346	34,431,091
2022	802,436	16,846,510	19,342,311	36,991,257
2023	777,324	16,267,661	23,664,441	40,709,426
2024	674,878	16,900,301	19,886,469	37,461,648

Table 10.3. Recreational Fishing Effort (in angler trips) for Gulf of America and South Atlantic anglers by mode and year from all data sources (MRIP) for the **Keys_EFL** domain (the Florida Keys through northeastern Florida). These effort estimates depict all (general) recreational fishing activity in the Gulf of America and South Atlantic and are not specific to Hogfish.

Year	Cbt	Priv	Shore	Total
1981	254,790	10,076,456	34,735,620	45,066,866
1982	365,746	10,521,144	35,591,198	46,478,088
1983	309,178	9,398,819	35,460,017	45,168,014
1984	322,836	12,511,159	34,388,251	47,222,246
1985	327,247	10,312,898	32,347,884	42,988,029
1986	497,363	11,226,431	32,638,503	44,362,297
1987	434,840	12,407,446	36,149,295	48,991,581
1988	355,407	9,675,660	32,543,780	42,574,847
1989	469,512	11,370,285	32,149,429	43,989,226
1990	369,887	10,337,865	32,741,118	43,448,870
1991	395,950	12,440,987	38,638,363	51,475,300
1992	319,433	12,254,908	35,673,595	48,247,936
1993	363,739	13,495,829	34,358,200	48,217,768
1994	368,029	13,172,543	33,479,798	47,020,370
1995	378,351	12,113,241	32,156,492	44,648,084
1996	364,842	12,801,483	34,540,517	47,706,842
1997	305,623	12,853,772	34,053,299	47,212,694
1998	355,361	12,090,414	32,911,864	45,357,639
1999	306,771	12,188,078	31,036,706	43,531,555
2000	245,605	14,859,983	31,644,057	46,749,645
2001	341,015	13,562,617	33,112,784	47,016,416
2002	428,181	14,314,202	32,128,780	46,871,163
2003	390,324	15,654,496	31,827,241	47,872,061
2004	378,652	14,461,693	32,783,314	47,623,659
2005	352,044	14,943,697	34,893,780	50,189,521
2006	341,878	17,096,244	33,730,581	51,168,703
2007	350,853	17,911,833	33,446,638	51,709,324
2008	307,201	16,059,200	34,118,734	50,485,135
2009	340,906	16,769,701	34,150,206	51,260,813
2010	266,010	18,425,120	32,183,929	50,875,059
2011	289,773	15,787,529	32,057,501	48,134,803
2012	335,076	14,310,026	28,482,786	43,127,888
2013	337,795	14,291,216	26,474,787	41,103,798
2014	397,439	15,899,335	31,215,359	47,512,133

Year	Cbt	Priv	Shore	Total
2015	448,607	14,526,845	30,700,987	45,676,439
2016	472,105	13,680,838	27,247,399	41,400,342
2017	412,789	12,690,028	29,802,030	42,904,847
2018	416,174	15,747,298	30,552,256	46,715,728
2019	655,322	12,944,926	24,719,093	38,319,341
2020	456,634	14,269,450	29,115,189	43,841,273
2021	619,628	14,156,452	30,412,092	45,188,172
2022	503,015	14,351,204	23,751,163	38,605,382
2023	440,221	15,622,177	31,235,393	47,297,791
2024	495,167	15,140,857	26,909,654	42,545,678

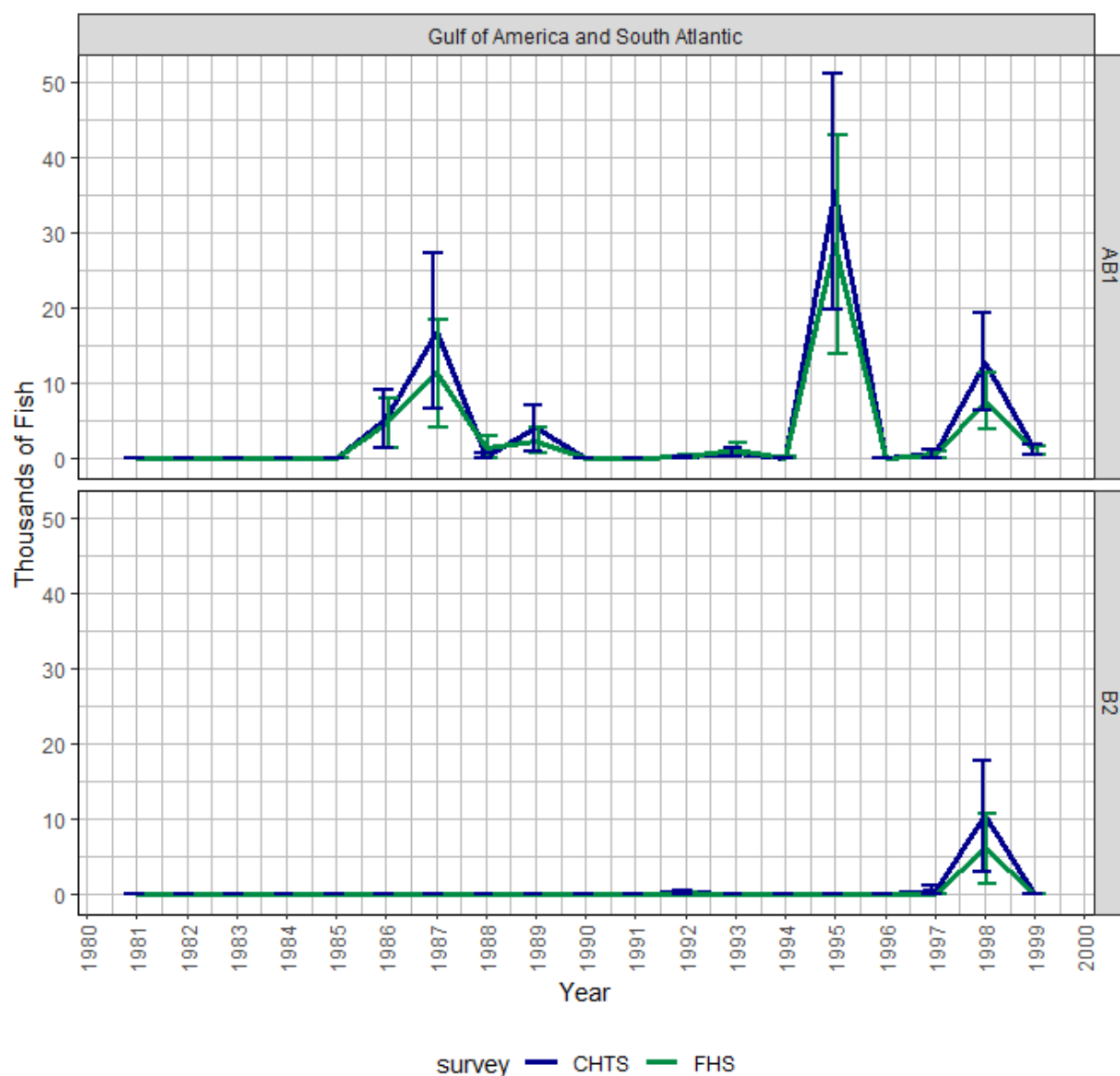


Figure 1. Comparison of MRIP charterboat landings (AB1) and discard (B2) estimates (with standard error intervals shown) for Hogfish from the Coastal Household Telephone Survey (CHTS) and For-Hire Survey (FHS) from the Gulf of America and South Atlantic between 1981 and 1999 (MRIP). The Charterboat calibration approach is discussed in Dettloff and Matter (2019a).

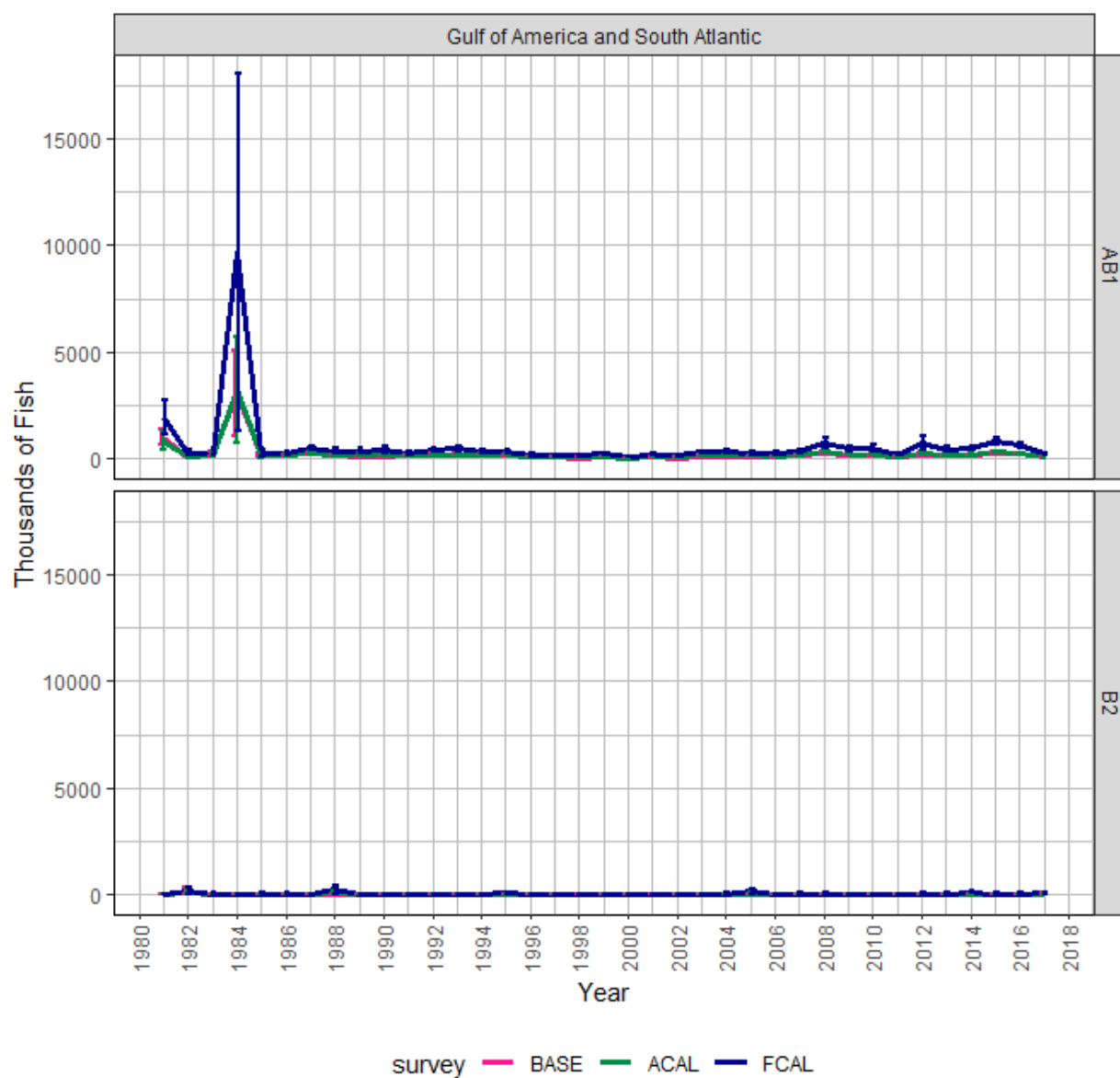


Figure 2. MRIP Base (BASE), APAIS Calibrated (ACAL), and Fully Calibrated APAIS and FES (FCAL) estimates for Hogfish in the Gulf of America and South Atlantic between 1981 and 2017 (NMFS pers comm). The Headboat mode is also included as uncertainty estimates for catch across multiple modes are only available when all modes are selected.

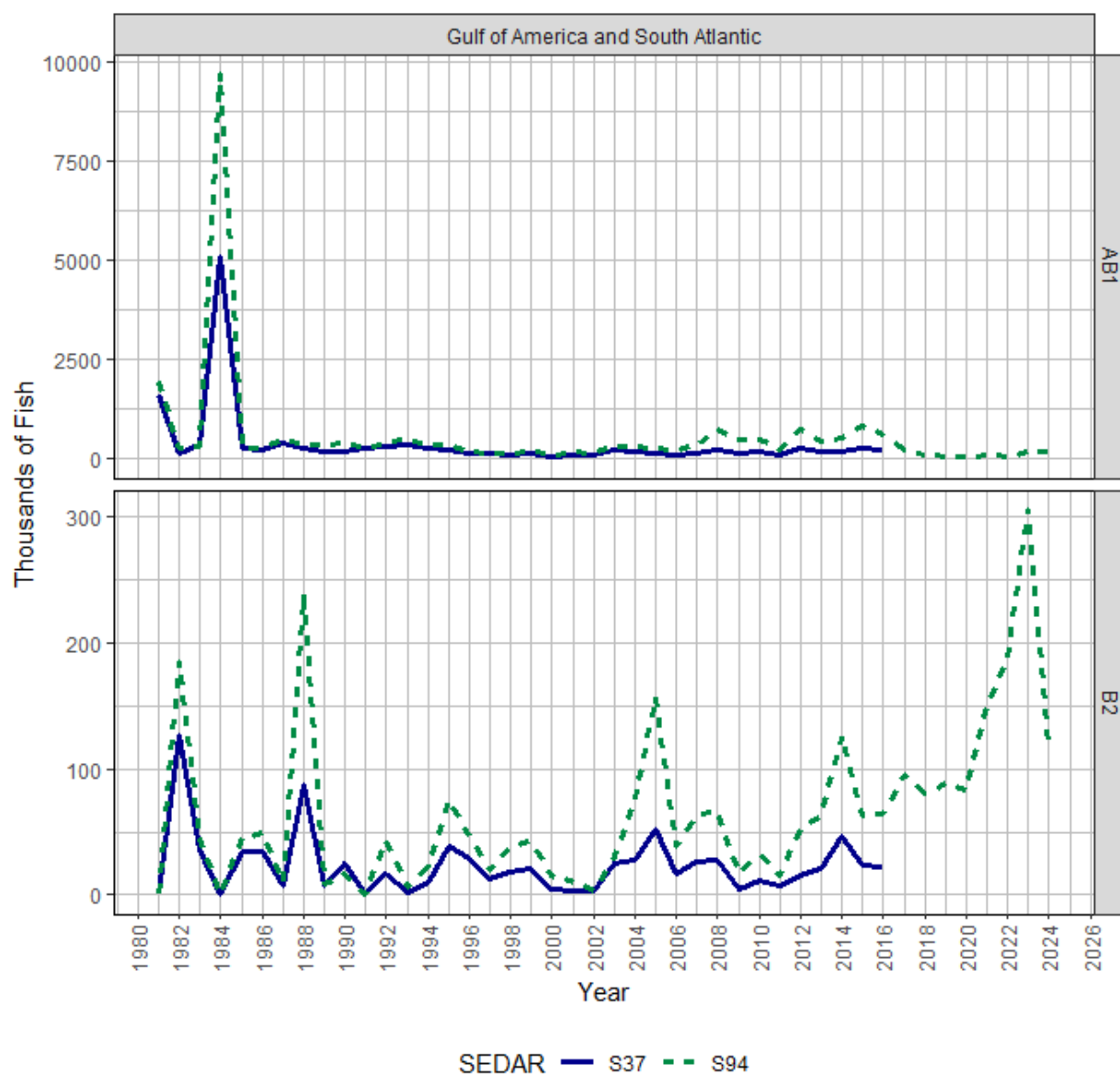


Figure 3. Comparison of total general recreational landings (AB1) and discard estimates (B2) for Gulf of America and South Atlantic Hogfish between SEDAR 94 and SEDAR 37, the terminal years of which are 2024 and 2016 respectively. Differences in catch estimates, which are in thousands of fish, are largely a function of changes in the MRIP survey (i.e., FES in 2018).

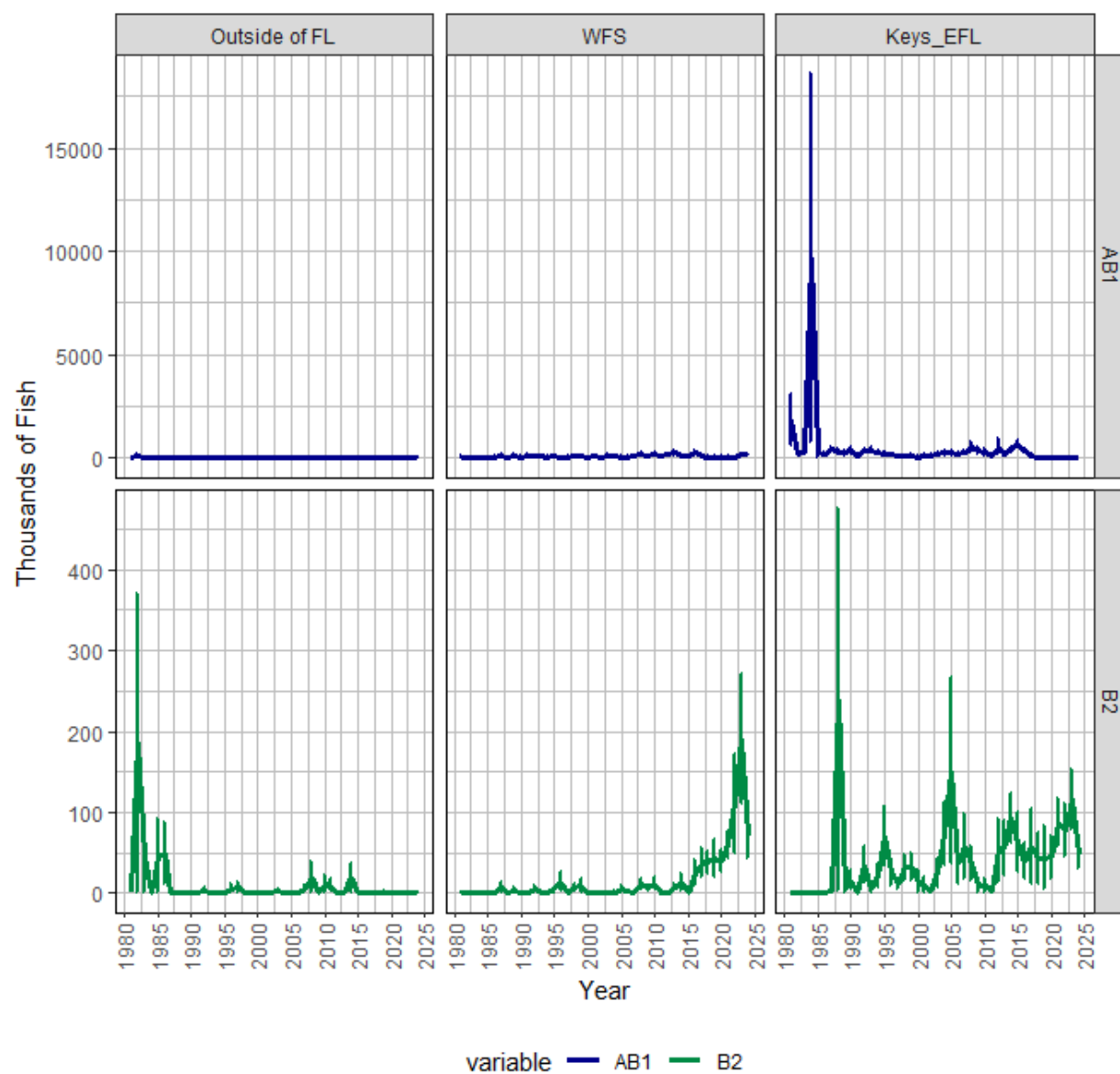


Figure 4. Annual landings (AB1) and discard (B2) estimates with standard error intervals, in thousands of fish, for Gulf of America and South Atlantic Hogfish between 1981 to 2024.

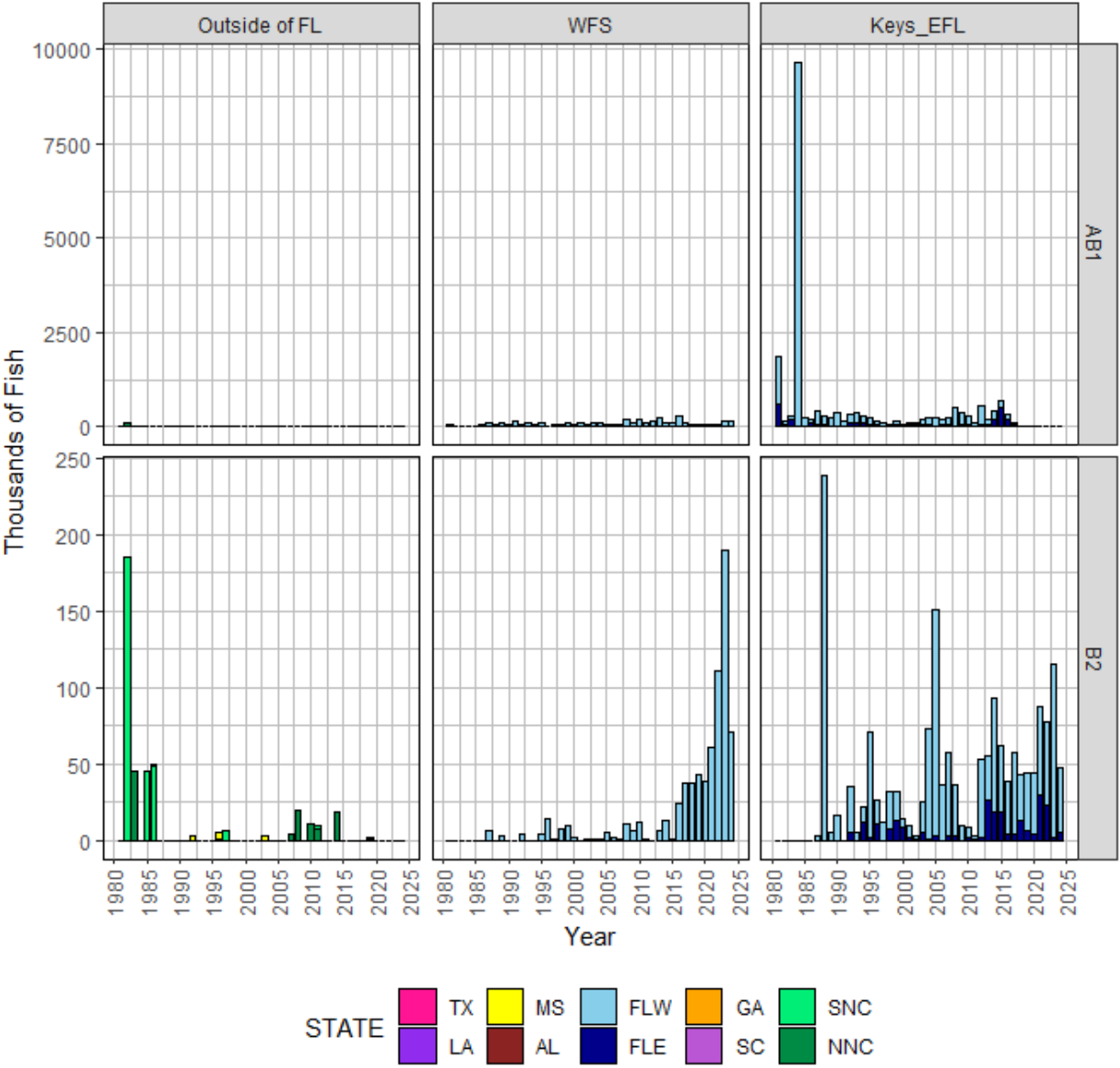


Figure 5a. Annual Hogfish landings (AB1) and discards (B2), in thousands of fish, by state from 1981 to 2024 from all data sources (MRIP, LACreel 2014+, TPWD).

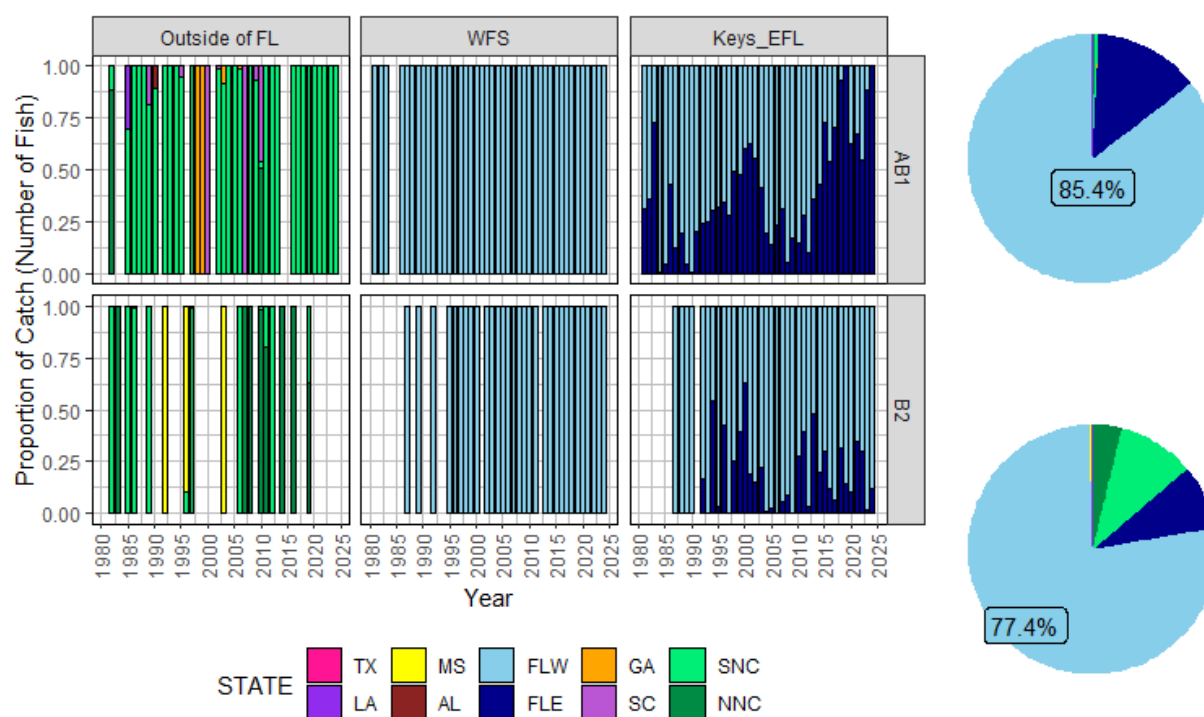


Figure 5b. Proportion of Hogfish landings (AB1) and discards (B2), in numbers of fish, from each state by year (bar graph) and overall (pie chart) between 1981 and 2024 from all data sources (MRIP, LACreel 2014+, TPWD).

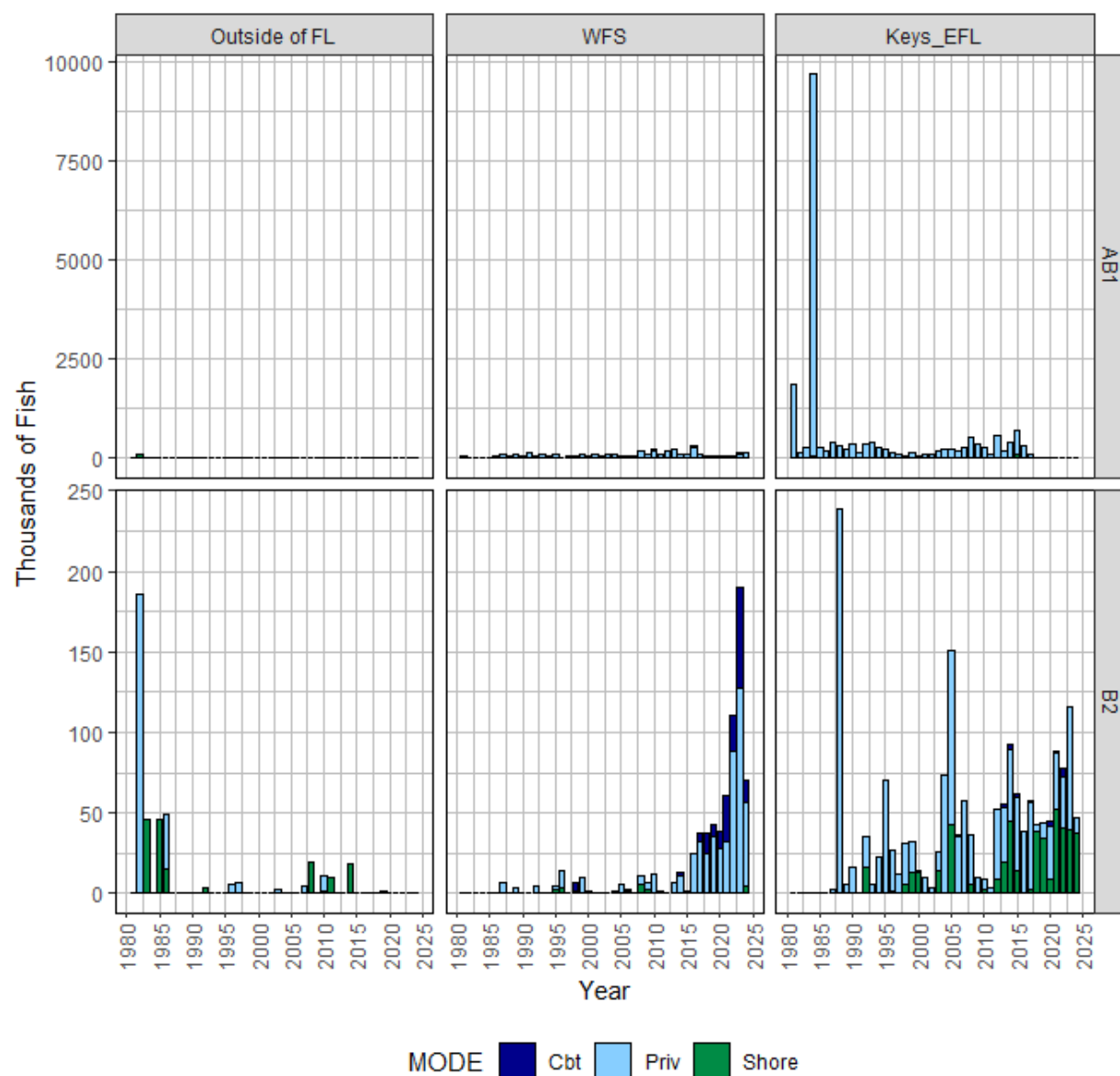


Figure 6a. Annual Hogfish landings (AB1) and discards (B2), in thousands of fish, by mode from 1981 to 2024 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

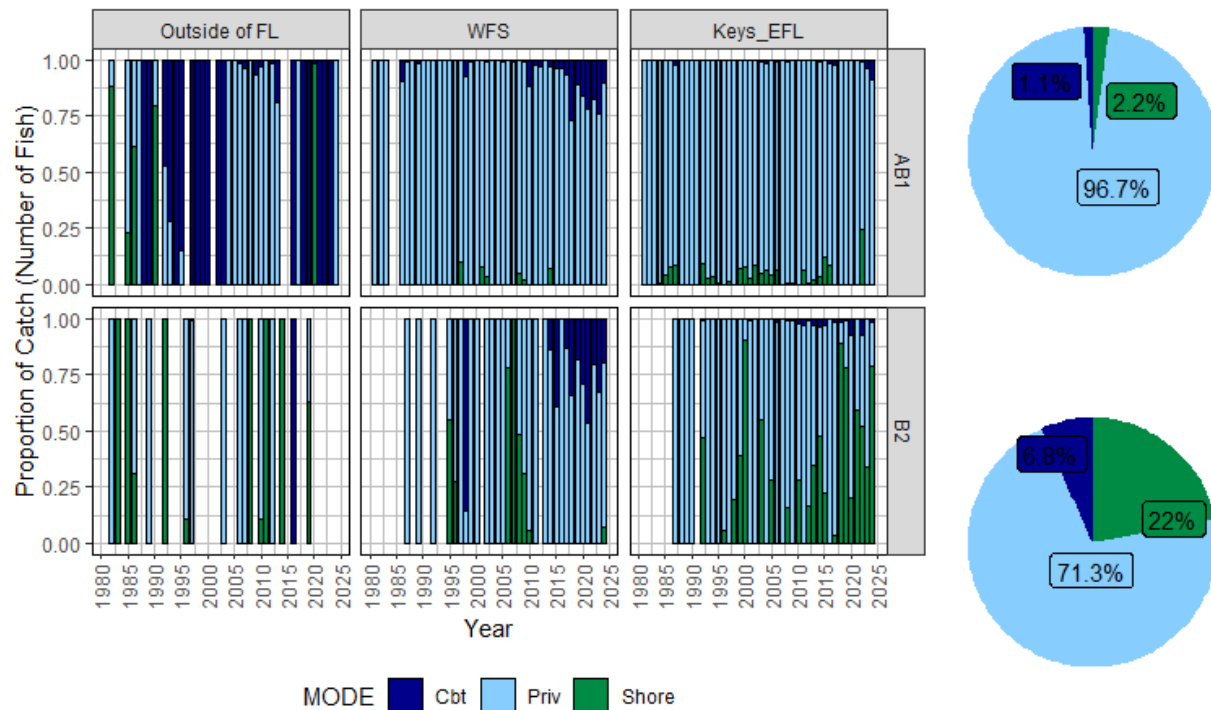


Figure 6b. Proportion of Hogfish landings (AB1) and discards (B2), in numbers of fish, from each mode by year (bar graph) and overall (pie chart) between 1981 and 2024 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

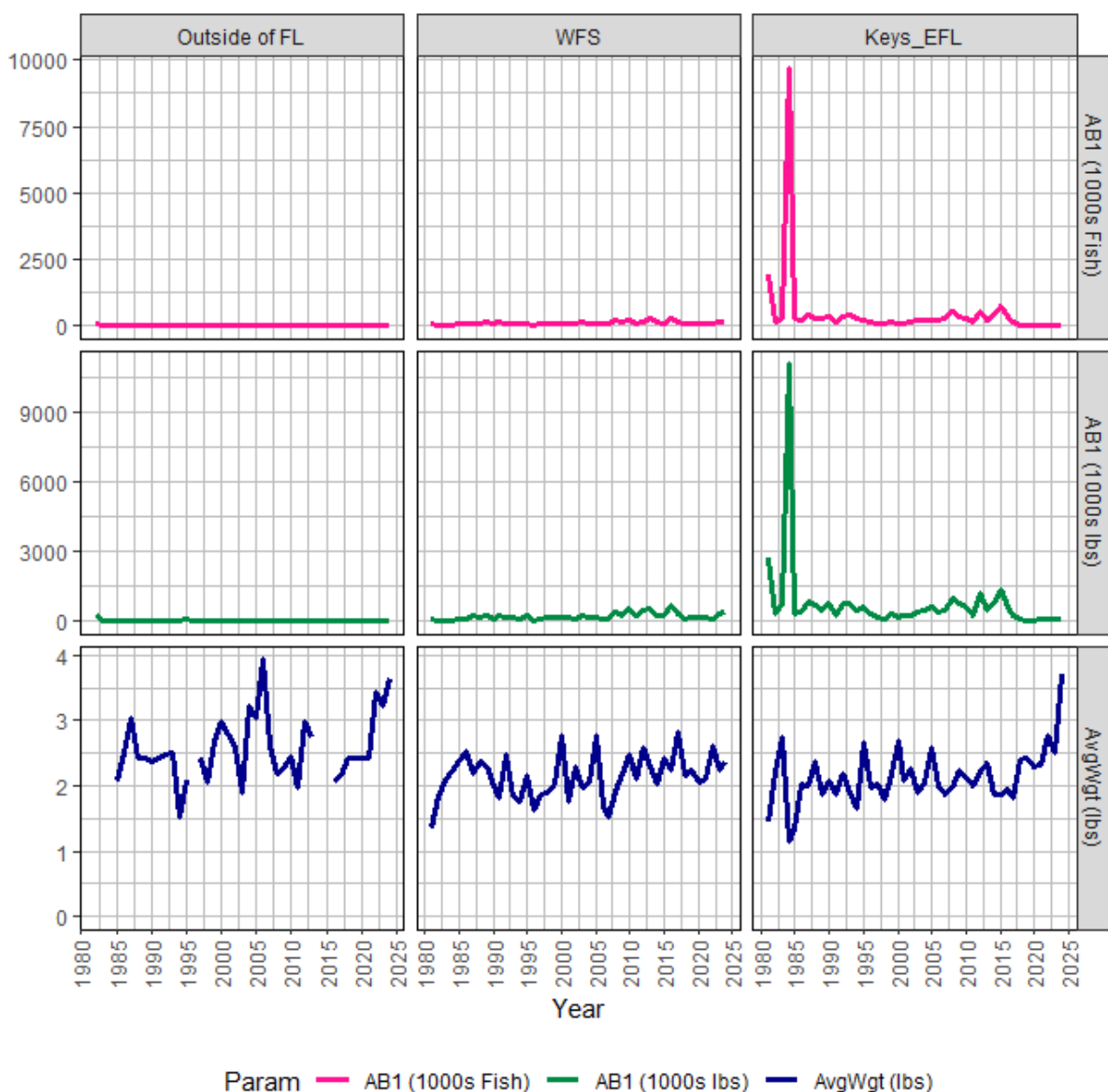


Figure 7. Estimates of annual landings for Hogfish in the Gulf of America and South Atlantic from all data sources (MRIP, LACreel 2014+, TPWD): estimated landings in thousands of fish (top), estimated landings in thousands of pounds whole weight (middle), and average weight of landed fish (estimated lbs/estimated fish) (bottom). See Appendix for average weight calculation methods.

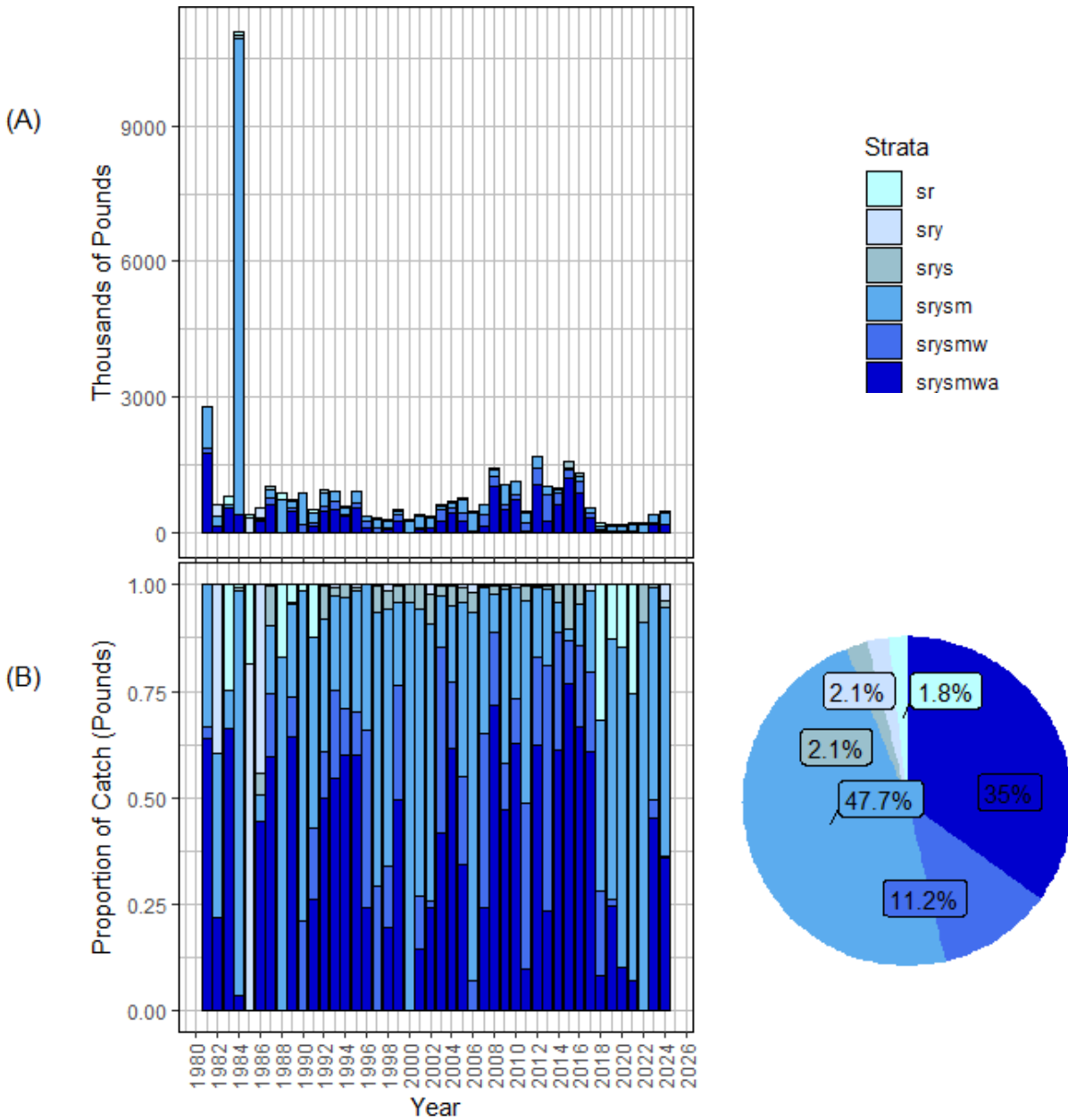


Figure 9. Annual landings estimates of Gulf of America and South Atlantic Hogfish in thousands of pounds whole weight from all data sources (MRIP, LACreel 2014+, TPWD) by hierarchy level, defined by species, region, year, state, mode, wave, and area. Landings are grouped by the strata at which average weights were estimated. As an example, (srysmw) summarizes those landings-in-weight estimates originating from cells where average weights are specific to a particular species, region, year, state, mode, and wave (i.e., weight observations collapsed across areas). Annual summaries include the number of fish and angler trips from which weight information was collected (N) and the landings-in-weight estimates (AB1.lbs) by hierarchy level. Landings are provided (A) in absolute pounds and (B) as a percentage of total landings-in-weight, which is summarized by year (stacked bar graph) and across all years (pie chart).

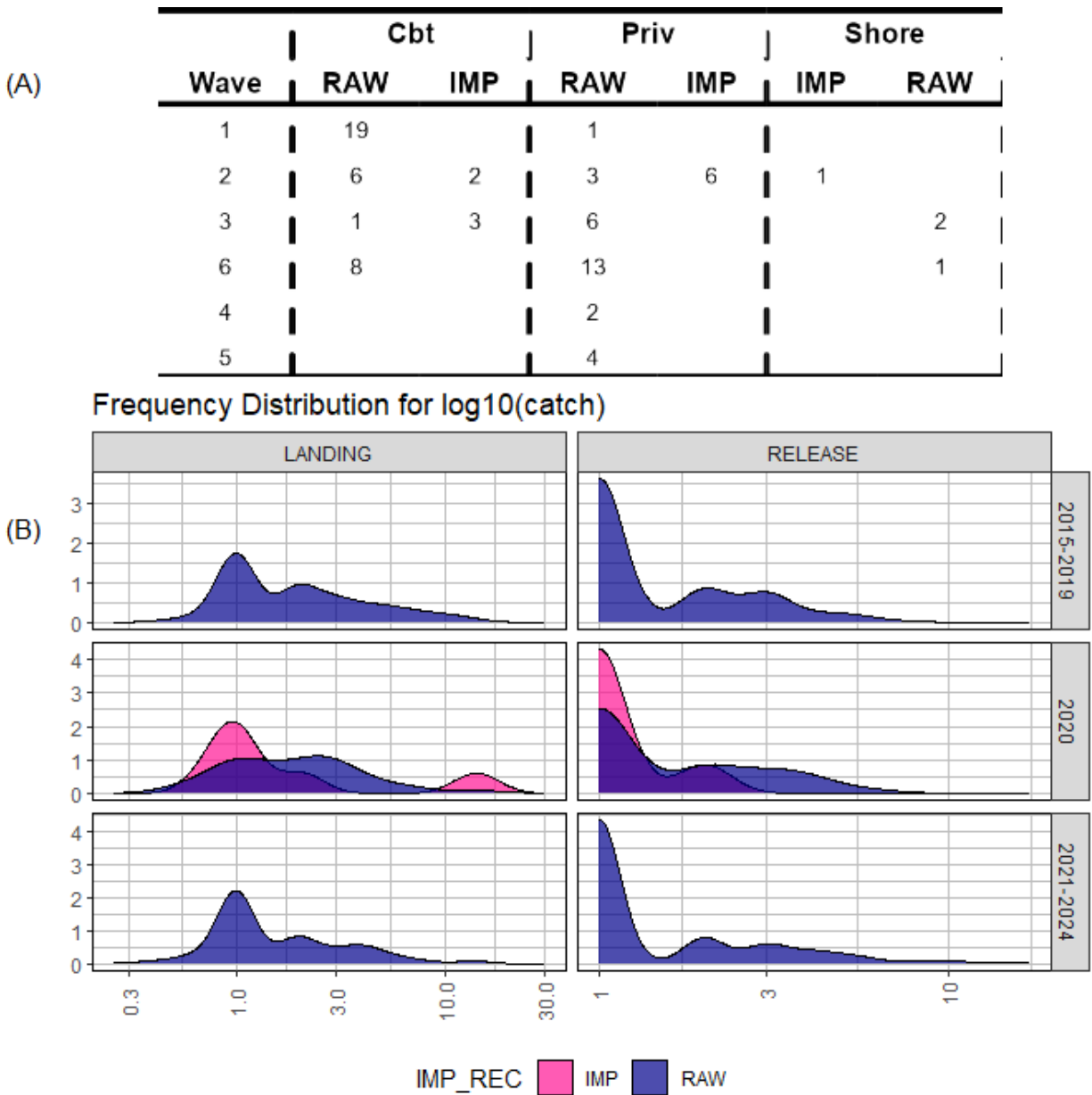


Figure 10. COVID data gaps in the MRIP APAIS and associated imputations for (positive) fishing trips that intercepted Gulf of America and South Atlantic Hogfish. No 2020 data were imputed for the FES or FHS. (A) Number of positive intercepts in 2020 from the APAIS (RAW) vs. those imputed from intercepts in adjacent years (IMP). (B) Distribution of APAIS catch observations in years with no imputed catch data (in 2015-2019 and 2021-2024), in raw 2020 APAIS data, and in 2020 imputations. Refer to Cody (2021) for more information on COVID data gaps in MRIP.

Appendix A

Additional Details of Survey Data and SEFSC Estimation

- **MRIP Calibrations:** Fully calibrated estimates that take into account the change in the Fishing Effort Survey (FES; 2018), the redesigned Access Point Angler Intercept Survey (APAIS; 2013), and the For Hire Survey (FHS; 2000 for all Gulf of America states and eastern Florida and 2004 for all Atlantic states north of Florida).
 - Papacostas and Foster (2021) provide descriptions of the approaches used by the Office of Science and Technology to calibrate MRIP (1) effort estimates derived from the legacy Coastal Household Telephone Survey (CHTS) into FES units for the private and shore modes and (2) catch rate estimates between the original and redesigned APAIS for all modes.
 - SEFSC calibrations of catch and effort estimates between CHTS and FHS units are calculated for the For-Hire mode by year, region, state, wave, and area fished according to Dettloff and Matter (2019a). Figure 1 summarizes the resultant scaling of CHTS catch estimates under the FHS calibration ratios.
- **SEFSC Weight Estimation:** Average (fish) weight estimates are calculated in whole weight by strata using the following hierarchy: species, region, year, state, mode, wave, and area (Matter and Rios 2013). The minimum number of weights used at each level of substitution is fifteen fish, except for the final species level where the minimum is one fish (Dettloff and Matter 2019b). Size records above an allowable (max size) threshold are excluded from weight estimation and the summary tables included in this working paper (Tables 7-9). For SEDAR 94 Hogfish, this includes any weights heavier than 25.41 pounds.
- **SEFSC Estimates derived using SEDAR best practices (SEDAR-PW-07):**
 - To ensure sampling can support MRIP estimates at finer stratifications than for which the survey was designed, (sub-state) domain estimates are only generated for established geographic domains. For Florida, this includes the sub-state domains of Florida in the FHS (1 = Florida panhandle, Escambia to Dixie; 2 = western Florida, Levy to Collier; 3 = Florida Keys, Monroe; 4 = southeastern Florida, Miami-Dade to Indian River; 5 = northeastern Florida, Brevard to Nassau). For North Carolina, this includes domains north of Cape Hatteras (Cape Hatteras north to the NC/VA border) and south of Cape Hatteras (Cape Hatteras south to the NC/SC border).
 - Between 1981 and 1985 in the Gulf of America and South Atlantic, MRIP charter and headboat modes were combined into a single (for-hire) mode for estimation purposes. Since the NMFS Southeast Region Headboat Survey (SRHS) began in 1986 in the Gulf and 1981 in the South Atlantic, the MRIP combined for-hire mode must be split in these early years (1981-1985) to provide headboat landings estimates in the Gulf and to avoid double counting of headboat landings in the South Atlantic. Estimates for the MRIP for-hire mode (1981-1985) were split using a ratio of SRHS headboat angler trip estimates to MRIP charterboat angler

trip estimates for 1986-1990, calculated by state (or state equivalent to match SRHS areas to MRIP states).