

General Recreational Survey Data for Red Snapper in the Gulf of Mexico

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SEDAR98-DW-05

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

Matthew A. Nuttall

12-17-2024

Update to the 11-22-2024 working paper

Adjusted to include the calibration factors that convert LACR estimates into MRIP-FES units (S98-DW-18) and corrected an issue causing underestimation of catch uncertainties for the *West SID* region.

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) Creel survey (SEDAR70-WP-03)
 3. Louisiana Creel survey program (LA Creel; 2014+)
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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 (#4) of the Data Workshop report for details on those estimates ultimately used in this assessment.

Parameters for data prepared for SEDAR 98 recreational catch data:

- Species: Red Snapper
- Year Range: 1981 - 2023
- Geographic Range: Gulf of Mexico states from Texas to western Florida, including the Florida Keys. Spatial summaries for SEDAR 98 have been separated into distinct domains: 'West' (Texas to Louisiana), 'Central' (Mississippi to the Florida panhandle) and 'East' (western Florida to the Florida Keys).
- Fishing Modes: Charter, Headboat (1981-1985, excluding the Florida Key), Private
- 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.
- TPWD Calibration: Applied ratio estimator developed from MRIP-FES study conducted in Texas in 2016 (SEDAR 74-RD-110) to calibrate TPWD catch and effort estimates for the private mode into MRIP-FES units (SEDAR 74-DW-10).
- LA Creel Calibration: Applied ratio estimator developed from benchmarking of MRIP and LA Creel in Louisiana in 2015 to calibrate LA Creel catch and effort estimates for the private mode into MRIP-FES units. Charter estimates between these two surveys are assumed equivalent and were not adjusted (SEDAR 74-DW-04).
- 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 7-10). For SEDAR 98 Red Snapper, this includes any weights heavier than 52.668 pounds.
- At the request of assessment analysts, the data and estimates summarized in this working paper are specific to (open vs. closed) fishing season. For raw (e.g., size)

data, these distinctions were made from the intercept date of individual biological samples. Annual estimates were partitioned using the relative catch and effort between the open and closed seasons from trip-level intercept data. This approach is different from that applied in SEDAR 74, which used the %days-open of the Red Snapper fishing season in any given year to partition annual estimates.

Summary of Data Imputations

Estimate	Strata	Imputed	Rationale
Catch	1981 Wave1 (TX-FLE)	Yes	Wave1 catch in 1982-1984 was not negligible
Catch	1981 - 1983 (Texas)	Yes	Texas catch in 1983-1985 was not negligible
Discards	1981+ (Texas)	Yes	Discards in adjacent states were not negligible
Discards	2014 - 2015 (Louisiana)	Yes	Discards in adjacent states were not negligible
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: 5,849,875 fish
 - Stratum: LA, private, wave 5, and ocean greater than 3 miles
 - Intercept Records: a total of 11 angler trips that resulted in a landings estimate of 1,470,041 fish (25% of the total annual estimate)
 - One angler trip that harvested 6 Red Snapper (seen by interviewer)
 - One angler trip that harvested 18 Red Snapper (seen by interviewer)
 - Five angler trips that harvested 6 Red Snapper (NOT seen by interviewer)

- Two angler trips that harvested 7 Red Snapper (NOT seen by interviewer)
 - Two angler trips that harvested 8 Red Snapper (NOT seen by interviewer)
- No single intercept contributed more than 50% to the total landings estimate for this stratum, with the largest contribution being from the intercept that harvested 18 Red Snapper (20% of the estimate for this strata). All eleven intercepts for this stratum reported non-zero landings of Red Snapper, and all intercepts were from distinct fishing parties.
- Generally speaking, all eleven intercepts informing the catch estimate for this stratum reported harvest of multiple Red Snappers. Considering the associated sampling weights (i.e., WP_CATCH), there was also no single intercept that constituted a majority (>50%) of the strata-level catch estimate, with the most any single intercept contributes to the strata-level estimate being 20%. This support for high catch across multiple intercepts suggests that these catch estimates either reflect real trends in the fishery or represent the true variability in MRIP catch estimates for Red Snapper.

- Stratum: AL, for-hire, wave 2, and ocean greater than 3 miles
- Intercept Records: a total of 3 angler trips that resulted in a landings estimate of 2,234,258 fish, with 1,374,578 (62%) allocated to charter and 859,711 (38%) to headboat.
 - One angler trip that harvested 47 Red Snapper (24 fish seen by interviewer and 23 fish NOT seen by interviewer)
 - One angler trip that harvested 18 Red Snapper (seen by interviewer)
 - One angler trip that harvested 15 Red Snapper (seen by interviewer)
- As investigated in SEDAR 74 (SEDAR 74-DW-01), the relatively high estimates for this stratum are caused by the FHS-calibration method (SEDAR 64-RD-12) inflating Alabama effort to account for a zero effort estimate in the associated Florida-west cell. Estimates for this stratum have therefore already been adjusted, using the same approach applied in SEDAR 74 which substituted the calibration ratio calculated for 1981 with an average FHS-calibration ratio over the same stratum in subsequent years (1982-1985). The new FHS estimates for this stratum are:
 - Charterboat: Catch = 37,936 fish and Effort = 1,897 angler trips
 - Headboat: Catch = 24,546 fish and Effort = 1,186 angler trips
 resulting in a landings estimate of 62,482 fish (1% of the total annual estimate). No additional adjustments to this stratum are believed necessary.

- 1983 landings estimate: 6,640,476 fish
 - Stratum: LA, private, wave 1, and ocean greater than 3 miles
 - Intercept Records: a total of 2 angler trips that resulted in a landings estimate of 1,131,381 fish (17% of the total annual estimate)
 - One angler trip that harvested 51 Red Snapper (seen by interviewer)
 - One angler trip that harvested 8 Red Snapper (seen by interviewer)
 - These fish were all seen by the dockside sampler, suggesting the associated data was accurately recorded. The single intercept that harvested 51 Red Snapper was conducted by four anglers (from Arizona) that fished for 10 hours and targeted Red Snapper. It accounts for 90% of the total landings estimate for this stratum and 15% of the total annual estimate. This intercept has the highest observation of landed Red Snapper from any private trip in 1983, but other private intercepts in 1983 observed similarly high landings (e.g., 1 intercept with 40 fish, 1 with 30, 1 with 28, and 1 with 27 fish), suggesting this landings observation falls within the distribution of plausible catch values for Gulf of Mexico Red Snapper (albeit in the upper tail). OST investigated this record at our request, but found no reason to suspect the associated data was erroneously collected.

- 2017 discard estimate: 9,628,577 fish
 - Stratum: FLW, private, wave 3, and ocean less than or equal to 10 miles
 - Intercept Records: a total of 121 angler trips that resulted in a discard estimate of 1,049,036 fish (11% of the total annual estimate)

<i>Catch Observation</i>	<i>Minimum</i>	<i>Median</i>	<i>Mean</i>	<i>Maximum</i>
<i>Harvest seen by interviewer</i>	0	0	1.17	10
<i>Harvest not seen by interviewer</i>	0	0	0.56	10
<i>Released live fish</i>	0	3	4.04	27

- No single intercept contributed more than 50% to the total discard estimate for this stratum, with the largest contribution being from an intercept that discarded 25 Red Snapper (10% of the estimate for this stratum). 102 intercepts reported non-zero discards of Red Snapper for this stratum, a few of which observed similar magnitudes of Red Snapper discards (i.e., intercepts that released 27, 24, and 22 live fish).

- Stratum: FLW, private, wave 3, and ocean greater than 10 miles
- Intercept Records: a total of 143 angler trips that resulted in a discard estimate of 1,629,272 fish (17% of the total annual estimate)

<i>Catch Observation</i>	<i>Minimum</i>	<i>Median</i>	<i>Mean</i>	<i>Maximum</i>
<i>Harvest seen by interviewer</i>	0	0	1.04	12
<i>Harvest not seen by interviewer</i>	0	0	0.54	2
<i>Released live fish</i>	0	2	4.07	25

- No single intercept contributed more than 50% to the total discard estimate for this stratum, with the largest contributions being from two intercepts that each discarded 25 Red Snapper. These two intercepts were from the same fishing party which, combined, account for 18% of the estimate for this stratum. A total of 127 intercepts reported non-zero discards of Red Snapper for this stratum, a few of which observed similar magnitudes of Red Snapper discards. There were two other intercepts from this stratum that also observed releases of 25 live Red Snapper, both from the same fishing party, but these only accounted for 3% of the estimate for this stratum. Releases of 20 and 17 fish were also observed for this stratum.
- Taken together, these 264 intercepts over these two strata account for 28% (2,678,308 fish) of the total discard estimate for this year.

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 Red Snapper in numbers of fish by state and year from all data sources (MRIP, LACreel 2014+, TPWD) for the **West** domain (Texas through Louisiana).

Year	FED_CLOSED	TX		LA		Total	
		AB1	B2	AB1	B2	AB1	B2
1981	closed	0	0	0	0	0	0
1982	closed	0	0	0	0	0	0
1983	closed	0	0	0	0	0	0
1984	closed	0	0	0	0	0	0
1985	closed	0	0	0	0	0	0
1986	closed	0	0	0	0	0	0
1987	closed	0	0	0	0	0	0
1988	closed	0	0	0	0	0	0
1989	closed	0	0	0	0	0	0
1990	closed	0	0	0	0	0	0
1991	closed	0	0	0	0	0	0
1992	closed	0	0	0	0	0	0
1993	closed	0	0	0	0	0	0
1994	closed	0	0	0	0	0	0
1995	closed	0	0	0	0	0	0
1996	closed	0	0	0	0	0	0
1997	closed	16,941	0	0	0	16,941	0
1998	closed	443	33,311	0	23,303	443	56,614
1999	closed	90,116	40,536	0	14,134	90,116	54,670
2000	closed	3,880	182,573	0	64,910	3,880	247,483
2001	closed	63,628	54,262	0	11,488	63,628	65,750
2002	closed	44,569	576,499	0	38,844	44,569	615,343
2003	closed	27,147	573,679	0	51,289	27,147	624,969
2004	closed	46,200	2,350,157	0	127,689	46,200	2,477,845
2005	closed	101,488	901,519	21,310	117,147	122,798	1,018,665
2006	closed	90,744	324,226	786	76,057	91,530	400,282
2007	closed	80,373	96,032	0	38,254	80,373	134,286
2008	closed	171,663	647,206	0	172,138	171,663	819,343
2009	closed	105,951	460,171	0	167,494	105,951	627,665
2010	closed	76,516	179,023	0	9,810	76,516	188,833
2011	closed	148,275	708,485	0	130,200	148,275	838,685
2012	closed	186,380	61,485	0	26,133	186,380	87,618
2013	closed	279,694	953,720	16,350	202,964	296,044	1,156,684

Year	FED_CLOSED	TX		LA		Total	
		AB1	B2	AB1	B2	AB1	B2
2014	closed	297,693	144,756	149,751	348,748	447,444	493,504
2015	closed	308,297	174,434	207,124	431,524	515,421	605,958
2016	closed	176,858	88,384	159,997	304,921	336,855	393,305
2017	closed	134,363	107,830	70,102	176,346	204,465	284,176
2018	closed	129,285	122,960	1,149	156,742	130,434	279,701
2019	closed	182,801	171,086	5,015	168,213	187,816	339,299
2020	closed	149,530	172,331	1,758	280,548	151,288	452,879
2021	closed	57,515	71,028	3,163	178,331	60,678	249,359
2022	closed	50,770	26,287	3,577	75,262	54,347	101,549
2023	closed	125,477	47,975	5,295	101,031	130,772	149,006
1981	open	697,323	6,809	2,623,149	23,485	3,320,471	30,293
1982	open	697,323	2,703	1,464,280	18,223	2,161,603	20,926
1983	open	676,651	39	3,335,193	1,646	4,011,844	1,685
1984	open	387,615	0	813,175	0	1,200,790	0
1985	open	1,027,702	351,577	911,124	86,825	1,938,827	438,402
1986	open	1,396,692	168	410,996	2,353	1,807,687	2,521
1987	open	419,439	94,666	165,719	27,174	585,158	121,840
1988	open	576,624	378,341	244,148	152,146	820,772	530,486
1989	open	253,287	176,176	341,472	199,550	594,759	375,726
1990	open	271,622	289,767	152,653	196,564	424,275	486,332
1991	open	441,502	385,363	144,629	165,788	586,131	551,151
1992	open	373,820	269,415	374,654	293,135	748,474	562,550
1993	open	436,412	223,378	688,787	372,657	1,125,200	596,035
1994	open	847,037	861,646	415,630	459,325	1,262,668	1,320,972
1995	open	985,650	1,252,267	616,464	779,408	1,602,114	2,031,674
1996	open	865,337	343,507	258,417	160,373	1,123,754	503,880
1997	open	789,899	378,990	309,287	170,855	1,099,186	549,846
1998	open	606,614	437,680	511,348	345,397	1,117,962	783,076
1999	open	408,693	1,479,950	215,068	515,647	623,761	1,995,598
2000	open	488,702	357,176	184,195	131,292	672,897	488,469
2001	open	335,667	380,752	87,846	83,204	423,513	463,956
2002	open	373,390	173,821	64,752	36,166	438,142	209,987
2003	open	330,760	1,046,068	80,644	140,568	411,404	1,186,635
2004	open	305,227	694,316	90,889	193,298	396,116	887,613
2005	open	412,282	953,276	96,970	249,473	509,252	1,202,750
2006	open	491,605	1,537,722	208,437	504,714	700,041	2,042,436

Year	FED_CLOSED	TX		LA		Total	
		AB1	B2	AB1	B2	AB1	B2
2007	open	318,802	697,887	202,918	363,658	521,720	1,061,545
2008	open	171,454	664,641	100,394	191,831	271,848	856,472
2009	open	212,438	386,142	129,993	144,742	342,431	530,883
2010	open	175,238	51,281	12,189	2,561	187,427	53,842
2011	open	179,083	424,037	63,287	79,898	242,369	503,935
2012	open	137,039	431,599	153,064	189,919	290,103	621,518
2013	open	205,442	576,733	97,063	130,534	302,505	707,267
2014	open	72,922	35,657	77,913	82,424	150,835	118,081
2015	open	139,835	43,533	87,258	106,115	227,092	149,648
2016	open	73,255	33,125	79,703	115,319	152,958	148,444
2017	open	274,786	215,084	121,766	350,416	396,551	565,500
2018	open	360,620	260,671	169,070	332,204	529,690	592,876
2019	open	579,131	686,692	203,506	663,704	782,637	1,350,396
2020	open	266,081	294,352	176,834	479,551	442,915	773,903
2021	open	287,250	220,405	230,617	552,936	517,867	773,341
2022	open	210,821	123,659	200,604	360,859	411,425	484,518
2023	open	346,870	294,608	271,511	620,091	618,381	914,699

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

Year	FED_CLOSED	MS		AL		FLW		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981	closed	0	0	0	0	0	0	0	0
1982	closed	0	0	0	0	0	0	0	0
1983	closed	0	0	0	0	0	0	0	0
1984	closed	0	0	0	0	0	0	0	0
1985	closed	0	0	0	0	0	0	0	0
1986	closed	0	0	0	0	0	0	0	0
1987	closed	0	0	0	0	0	0	0	0
1988	closed	0	0	0	0	0	0	0	0
1989	closed	0	0	0	0	0	0	0	0
1990	closed	0	0	0	0	0	0	0	0
1991	closed	0	0	0	0	0	0	0	0
1992	closed	0	0	0	0	0	0	0	0
1993	closed	0	0	0	0	0	0	0	0
1994	closed	0	0	0	0	0	0	0	0
1995	closed	0	0	0	0	0	0	0	0
1996	closed	0	0	0	0	0	0	0	0
1997	closed	0	0	2,767	25,995	8,227	8,222	10,994	34,217
1998	closed	2,010	6,737	31,651	204,188	66,700	237,814	100,361	448,739
1999	closed	0	18	11,537	189,422	66,304	342,851	77,840	532,292
2000	closed	0	69,637	4,956	574,757	134,280	654,329	139,237	1,298,722
2001	closed	0	979	4,660	1,026,882	254,206	1,435,610	258,867	2,463,470
2002	closed	0	54,637	20,459	1,133,428	5,104	1,567,115	25,563	2,755,181
2003	closed	0	0	1,251	366,838	23,461	1,447,089	24,712	1,813,927
2004	closed	0	0	2,531	264,394	14,344	838,332	16,875	1,102,726
2005	closed	0	17,103	2,052	505,117	88,764	1,048,423	90,816	1,570,643
2006	closed	0	0	6,598	499,161	56,801	576,648	63,399	1,075,810
2007	closed	0	0	5,550	508,411	187,163	915,805	192,714	1,424,216
2008	closed	0	13,207	34,617	519,452	379,547	2,584,009	414,164	3,116,668
2009	closed	0	274,739	752	531,151	13,819	1,371,834	14,571	2,177,724
2010	closed	0	30,531	0	802,162	34	1,791,326	34	2,624,019
2011	closed	38,334	0	0	595,802	13,536	1,767,068	51,871	2,362,871
2012	closed	0	0	673	313,728	12,610	2,666,329	13,283	2,980,057
2013	closed	0	36,115	687	388,623	87,806	1,151,164	88,493	1,575,903

Year	FED_CLOSED	MS		AL		FLW		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
2014	closed	10,109	121,404	71,623	1,481,853	294,614	1,777,733	376,346	3,380,991
2015	closed	19,431	471,621	67,080	738,497	371,008	1,500,634	457,519	2,710,751
2016	closed	74,405	281,450	190,661	1,588,803	528,068	2,360,233	793,134	4,230,486
2017	closed	60,324	522,749	163,814	820,956	379,376	3,208,888	603,513	4,552,592
2018	closed	0	38,010	2,943	955,160	9,900	1,494,198	12,843	2,487,368
2019	closed	294	32,889	5,209	517,731	7,891	2,185,318	13,394	2,735,939
2020	closed	4,314	139,168	4,207	625,932	57,852	1,153,326	66,373	1,918,425
2021	closed	203	244,832	18,787	176,332	19,868	1,551,978	38,857	1,973,143
2022	closed	0	4,054	21,240	526,125	14,828	2,483,355	36,068	3,013,535
2023	closed	0	8,378	26,437	629,314	11,786	877,548	38,223	1,515,240
1981	open	0	0	1,698,886	84,367	227,114	95,830	1,926,000	180,197
1982	open	43,449	5,693	333,800	173	491,037	19,878	868,286	25,744
1983	open	23,098	0	1,429,454	4,470	534,658	0	1,987,210	4,470
1984	open	1,274	0	458,299	0	156,447	6,151	616,020	6,151
1985	open	2,032	0	694,566	0	303,777	4,639	1,000,375	4,639
1986	open	364	0	339,833	15,095	428,766	5,758	768,963	20,853
1987	open	47,978	29,720	344,273	64,423	556,385	62,253	948,636	156,397
1988	open	15,794	2,443	323,422	2,956	384,989	68,639	724,205	74,039
1989	open	442,463	161,947	175,338	17,400	174,463	178,773	792,265	358,120
1990	open	145,948	337,501	230,390	468,455	115,913	46,935	492,251	852,892
1991	open	181,451	345,240	690,435	1,280,727	124,418	157,585	996,304	1,783,552
1992	open	402,749	606,824	1,106,323	721,945	265,719	304,420	1,774,791	1,633,189
1993	open	529,362	654,791	902,991	725,703	838,410	536,720	2,270,763	1,917,215
1994	open	116,008	165,850	806,957	794,273	452,468	253,662	1,375,433	1,213,786
1995	open	121,037	9,908	589,354	367,666	233,473	250,203	943,864	627,777
1996	open	111,082	259,741	484,302	766,326	334,445	475,256	929,829	1,501,324
1997	open	167,036	486,525	737,273	1,258,466	446,275	1,337,095	1,350,583	3,082,087
1998	open	96,655	217,384	476,891	538,263	761,014	585,409	1,334,560	1,341,056
1999	open	73,234	122,797	641,950	976,923	1,140,459	1,910,430	1,855,642	3,010,150
2000	open	18,463	35,678	445,952	949,453	637,248	783,237	1,101,662	1,768,367
2001	open	39,848	111,903	500,881	773,501	989,133	1,595,421	1,529,862	2,480,826
2002	open	89,070	328,326	889,703	1,309,562	1,423,771	2,587,922	2,402,544	4,225,810
2003	open	81,698	177,997	542,829	785,531	1,165,319	2,145,056	1,789,846	3,108,583
2004	open	32,240	174,835	561,679	918,226	1,554,229	2,922,899	2,148,148	4,015,960
2005	open	2,852	143,564	433,467	1,184,892	758,124	1,700,909	1,194,442	3,029,364
2006	open	16,822	146,623	254,448	959,402	1,039,159	2,794,476	1,310,429	3,900,501

Year	FED_CLOSED	MS		AL		FLW		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
2007	open	6,391	31,295	360,060	1,359,969	1,443,023	3,565,590	1,809,474	4,956,854
2008	open	32,254	377,538	238,153	627,392	478,939	721,022	749,346	1,725,953
2009	open	51,621	60,195	276,693	655,266	941,644	1,419,299	1,269,958	2,134,760
2010	open	916	89,369	241,141	464,407	859,370	1,474,769	1,101,427	2,028,544
2011	open	1,272	442	604,381	838,084	738,662	904,064	1,344,314	1,742,590
2012	open	109,457	10,007	401,980	235,178	785,971	1,004,528	1,297,409	1,249,713
2013	open	47,796	97,572	756,360	1,086,210	1,364,559	2,514,655	2,168,715	3,698,437
2014	open	3,121	6,095	292,329	536,498	256,547	222,958	551,997	765,551
2015	open	676	0	562,770	627,774	207,322	77,647	770,768	705,421
2016	open	16,874	51,591	455,719	1,245,629	233,254	371,697	705,846	1,668,917
2017	open	60,390	227,728	1,085,631	1,549,843	1,057,946	2,474,413	2,203,967	4,251,984
2018	open	100,908	207,643	821,430	764,840	1,045,115	1,987,624	1,967,454	2,960,107
2019	open	176,279	605,930	961,781	1,335,836	1,077,564	1,584,137	2,215,625	3,525,903
2020	open	47,062	48,397	857,747	949,454	803,267	1,334,761	1,708,076	2,332,612
2021	open	141,722	254,486	487,683	900,853	827,856	1,257,467	1,457,261	2,412,806
2022	open	138,876	353,817	605,217	1,652,930	949,475	1,417,315	1,693,568	3,424,062
2023	open	60,086	368,522	556,135	962,213	929,215	962,914	1,545,436	2,293,649

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

Year	FED_CLOSED	FLW		Total	
		AB1	B2	AB1	B2
1981	closed	0	0	0	0
1982	closed	0	0	0	0
1983	closed	0	0	0	0
1984	closed	0	0	0	0
1985	closed	0	0	0	0
1986	closed	0	0	0	0
1987	closed	0	0	0	0
1988	closed	0	0	0	0
1989	closed	0	0	0	0
1990	closed	0	0	0	0
1991	closed	0	0	0	0
1992	closed	0	0	0	0
1993	closed	0	0	0	0
1994	closed	0	0	0	0
1995	closed	0	0	0	0
1996	closed	0	0	0	0
1997	closed	210	0	210	0
1998	closed	0	53,255	0	53,255
1999	closed	250	23,419	250	23,419
2000	closed	2,349	1,644	2,349	1,644
2001	closed	42	2,682	42	2,682
2002	closed	6,818	0	6,818	0
2003	closed	27	5,498	27	5,498
2004	closed	148	693	148	693
2005	closed	455	37,302	455	37,302
2006	closed	969	27,774	969	27,774
2007	closed	64	2,001	64	2,001
2008	closed	987	45,136	987	45,136
2009	closed	1,142	79,438	1,142	79,438
2010	closed	2,490	109,491	2,490	109,491
2011	closed	1,269	1,487,925	1,269	1,487,925
2012	closed	1,028	0	1,028	0
2013	closed	2,666	8,772	2,666	8,772

Year	FED_CLOSED	FLW		Total	
		AB1	B2	AB1	B2
2014	closed	259	37,868	259	37,868
2015	closed	0	22,969	0	22,969
2016	closed	8,662	707,653	8,662	707,653
2017	closed	92	272,497	92	272,497
2018	closed	0	463,760	0	463,760
2019	closed	0	250,934	0	250,934
2020	closed	0	188,341	0	188,341
2021	closed	0	66,464	0	66,464
2022	closed	0	114,384	0	114,384
2023	closed	18,199	177,976	18,199	177,976
1981	open	603,403	76,357	603,403	76,357
1982	open	18,555	643	18,555	643
1983	open	641,422	0	641,422	0
1984	open	72,122	88,247	72,122	88,247
1985	open	175,109	42,961	175,109	42,961
1986	open	242,849	28,816	242,849	28,816
1987	open	109,554	4,745	109,554	4,745
1988	open	55,039	35,687	55,039	35,687
1989	open	153,860	7,022	153,860	7,022
1990	open	42,071	21,540	42,071	21,540
1991	open	17,291	78,277	17,291	78,277
1992	open	6,206	81,091	6,206	81,091
1993	open	0	29,726	0	29,726
1994	open	57	38,921	57	38,921
1995	open	3,298	13,967	3,298	13,967
1996	open	36,996	35,811	36,996	35,811
1997	open	1,519	26,533	1,519	26,533
1998	open	8,037	15,426	8,037	15,426
1999	open	12,100	28,357	12,100	28,357
2000	open	369	66,339	369	66,339
2001	open	1,474	5,806	1,474	5,806
2002	open	1,414	6,874	1,414	6,874
2003	open	4,399	2,369	4,399	2,369
2004	open	7,331	92,594	7,331	92,594
2005	open	82,301	93,444	82,301	93,444
2006	open	28,521	45,220	28,521	45,220

Year	FED_CLOSED	FLW		Total	
		AB1	B2	AB1	B2
2007	open	42,112	43,501	42,112	43,501
2008	open	7,922	11,452	7,922	11,452
2009	open	19,685	41,053	19,685	41,053
2010	open	5,099	24,026	5,099	24,026
2011	open	15,121	14,601	15,121	14,601
2012	open	16,614	15,633	16,614	15,633
2013	open	1,395	10,940	1,395	10,940
2014	open	8,806	20,596	8,806	20,596
2015	open	9,920	16,174	9,920	16,174
2016	open	26,680	42,790	26,680	42,790
2017	open	96,748	148,234	96,748	148,234
2018	open	124,650	242,306	124,650	242,306
2019	open	124,251	169,378	124,251	169,378
2020	open	64,211	65,383	64,211	65,383
2021	open	125,328	249,211	125,328	249,211
2022	open	150,234	227,453	150,234	227,453
2023	open	184,635	320,568	184,635	320,568

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

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981	closed	0	0	0	0	0	0	0	0
1982	closed	0	0	0	0	0	0	0	0
1983	closed	0	0	0	0	0	0	0	0
1984	closed	0	0	0	0	0	0	0	0
1985	closed	0	0	0	0	0	0	0	0
1986	closed			0	0	0	0	0	0
1987	closed			0	0	0	0	0	0
1988	closed			0	0	0	0	0	0
1989	closed			0	0	0	0	0	0
1990	closed			0	0	0	0	0	0
1991	closed			0	0	0	0	0	0
1992	closed			0	0	0	0	0	0
1993	closed			0	0	0	0	0	0
1994	closed			0	0	0	0	0	0
1995	closed			0	0	0	0	0	0
1996	closed			0	0	0	0	0	0
1997	closed			0	0	16,941	0	16,941	0
1998	closed			0	0	443	56,614	443	56,614
1999	closed			2,489	356	87,627	54,315	90,116	54,670
2000	closed			0	158	3,880	247,325	3,880	247,483
2001	closed			0	0	63,628	65,750	63,628	65,750
2002	closed			0	1,617	44,569	613,726	44,569	615,343
2003	closed			0	2,181	27,147	622,788	27,147	624,969
2004	closed			0	1,209	46,200	2,476,636	46,200	2,477,845
2005	closed			5,589	24,110	117,209	994,555	122,798	1,018,665
2006	closed			0	6,380	91,530	393,903	91,530	400,282
2007	closed			0	1,369	80,373	132,917	80,373	134,286
2008	closed			3,700	22,816	167,963	796,528	171,663	819,343
2009	closed			1,198	14,931	104,753	612,734	105,951	627,665
2010	closed			5,439	870	71,077	187,964	76,516	188,833
2011	closed			2,492	610	145,783	838,075	148,275	838,685
2012	closed			2,101	1,308	184,279	86,309	186,380	87,618

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
2013	closed			2,954	10,234	293,090	1,146,449	296,044	1,156,684
2014	closed			6,704	679	440,740	492,825	447,444	493,504
2015	closed			14,043	1,730	501,377	604,228	515,421	605,958
2016	closed			13,628	1,653	323,227	391,652	336,855	393,305
2017	closed			15,195	4,641	189,270	279,535	204,465	284,176
2018	closed			3,122	2,563	127,311	277,138	130,434	279,701
2019	closed			4,552	17,405	183,264	321,895	187,816	339,299
2020	closed			1,347	3,558	149,941	449,321	151,288	452,879
2021	closed			3,652	2,313	57,026	247,047	60,678	249,359
2022	closed			5,585	4,113	48,762	97,435	54,347	101,549
2023	closed			7,654	2,331	123,118	146,675	130,772	149,006
1981	open	19,169	0	225,895	0	3,075,407	30,293	3,320,471	30,293
1982	open	23,483	1,136	274,792	13,299	1,863,327	6,491	2,161,603	20,926
1983	open	35,957	132	422,065	1,552	3,553,822	0	4,011,844	1,685
1984	open	33,007	0	378,268	0	789,515	0	1,200,790	0
1985	open	52,973	0	613,132	0	1,272,721	438,402	1,938,827	438,402
1986	open			77,146	2,521	1,730,541	0	1,807,687	2,521
1987	open			64,283	1,802	520,875	120,038	585,158	121,840
1988	open			15,018	1,213	805,754	529,273	820,772	530,486
1989	open			63,291	4,604	531,468	371,122	594,759	375,726
1990	open			28,440	64,074	395,835	422,258	424,275	486,332
1991	open			115,403	140,526	470,728	410,625	586,131	551,151
1992	open			123,052	111,920	625,422	450,630	748,474	562,550
1993	open			81,765	67,206	1,043,435	528,829	1,125,200	596,035
1994	open			57,285	107,784	1,205,383	1,213,187	1,262,668	1,320,972
1995	open			73,649	89,025	1,528,465	1,942,650	1,602,114	2,031,674
1996	open			57,143	90,822	1,066,610	413,058	1,123,754	503,880
1997	open			68,148	61,416	1,031,038	488,430	1,099,186	549,846
1998	open			106,153	48,023	1,011,809	735,054	1,117,962	783,076
1999	open			54,319	12,521	569,442	1,983,076	623,761	1,995,598
2000	open			20,477	9,829	652,419	478,639	672,897	488,469
2001	open			19,278	15,101	404,235	448,855	423,513	463,956
2002	open			54,462	36,103	383,680	173,885	438,142	209,987
2003	open			56,438	57,242	354,966	1,129,394	411,404	1,186,635
2004	open			81,847	177,321	314,269	710,292	396,116	887,613
2005	open			68,563	172,778	440,689	1,029,971	509,252	1,202,750

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
2006	open			95,019	195,955	605,023	1,846,480	700,041	2,042,436
2007	open			64,282	124,251	457,437	937,294	521,720	1,061,545
2008	open			21,714	45,381	250,134	811,091	271,848	856,472
2009	open			28,190	18,194	314,241	512,690	342,431	530,883
2010	open			2,235	0	185,193	53,842	187,427	53,842
2011	open			7,957	6,775	234,413	497,160	242,369	503,935
2012	open			25,657	17,852	264,446	603,666	290,103	621,518
2013	open			16,968	17,473	285,538	689,794	302,505	707,267
2014	open			4,567	3,685	146,268	114,397	150,835	118,081
2015	open			14,686	9,392	212,406	140,256	227,092	149,648
2016	open			20,092	11,402	132,866	137,042	152,958	148,444
2017	open			21,585	5,280	374,967	560,220	396,551	565,500
2018	open			22,650	4,381	507,040	588,495	529,690	592,876
2019	open			24,229	16,556	758,408	1,333,841	782,637	1,350,396
2020	open			16,567	4,128	426,347	769,776	442,915	773,903
2021	open			24,204	13,338	493,663	760,003	517,867	773,341
2022	open			20,977	4,394	390,448	480,125	411,425	484,518
2023	open			35,398	12,383	582,984	902,316	618,381	914,699

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

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981	closed	0	0	0	0	0	0	0	0
1982	closed	0	0	0	0	0	0	0	0
1983	closed	0	0	0	0	0	0	0	0
1984	closed	0	0	0	0	0	0	0	0
1985	closed	0	0	0	0	0	0	0	0
1986	closed			0	0	0	0	0	0
1987	closed			0	0	0	0	0	0
1988	closed			0	0	0	0	0	0
1989	closed			0	0	0	0	0	0
1990	closed			0	0	0	0	0	0
1991	closed			0	0	0	0	0	0
1992	closed			0	0	0	0	0	0
1993	closed			0	0	0	0	0	0
1994	closed			0	0	0	0	0	0
1995	closed			0	0	0	0	0	0
1996	closed			0	0	0	0	0	0
1997	closed	8,652	9,098	2,341	25,119	10,994	34,217		
1998	closed	43,598	92,790	56,763	355,949	100,361	448,739		
1999	closed	39,886	147,541	37,955	384,751	77,840	532,292		
2000	closed	18,728	97,097	120,508	1,201,625	139,237	1,298,722		
2001	closed	3,019	74,229	255,847	2,389,241	258,867	2,463,470		
2002	closed	9,699	74,976	15,864	2,680,205	25,563	2,755,181		
2003	closed	2,790	35,885	21,922	1,778,042	24,712	1,813,927		
2004	closed	14,854	67,103	2,021	1,035,622	16,875	1,102,726		
2005	closed	6,297	70,343	84,519	1,500,300	90,816	1,570,643		
2006	closed	14,008	135,886	49,391	939,923	63,399	1,075,810		
2007	closed	17,106	74,557	175,607	1,349,659	192,714	1,424,216		
2008	closed	122,121	310,138	292,043	2,806,530	414,164	3,116,668		
2009	closed	1,217	246,030	13,354	1,931,694	14,571	2,177,724		
2010	closed	34	161,189	0	2,462,830	34	2,624,019		
2011	closed	36	242,995	51,835	2,119,875	51,871	2,362,871		
2012	closed	1,363	149,796	11,920	2,830,261	13,283	2,980,057		
2013	closed	0	287,443	88,493	1,288,459	88,493	1,575,903		

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
2014	closed			19,689	267,981	356,657	3,113,009	376,346	3,380,991
2015	closed			8,654	177,816	448,865	2,532,935	457,519	2,710,751
2016	closed			10,150	257,929	782,984	3,972,558	793,134	4,230,486
2017	closed			13,124	230,885	590,389	4,321,707	603,513	4,552,592
2018	closed			3,255	197,631	9,588	2,289,737	12,843	2,487,368
2019	closed			4,511	287,351	8,883	2,448,587	13,394	2,735,939
2020	closed			9,201	177,230	57,173	1,741,196	66,373	1,918,425
2021	closed			29,781	432,119	9,076	1,541,024	38,857	1,973,143
2022	closed			3,343	203,626	32,725	2,809,909	36,068	3,013,535
2023	closed			10,431	189,454	27,792	1,325,786	38,223	1,515,240
1981	open	43,279	305	68,050	488	1,814,671	179,403	1,926,000	180,197
1982	open	247,419	4,839	409,279	7,736	211,587	13,169	868,286	25,744
1983	open	475,424	0	760,147	0	751,639	4,470	1,987,210	4,470
1984	open	132,091	2,367	211,197	3,784	272,732	0	616,020	6,151
1985	open	149,394	1,429	238,864	2,285	612,117	925	1,000,375	4,639
1986	open			507,401	7,325	261,562	13,528	768,963	20,853
1987	open			457,049	42,598	491,587	113,799	948,636	156,397
1988	open			358,245	64,906	365,960	9,133	724,205	74,039
1989	open			203,867	35,092	588,397	323,028	792,265	358,120
1990	open			143,525	80,687	348,726	772,205	492,251	852,892
1991	open			189,578	196,019	806,726	1,587,532	996,304	1,783,552
1992	open			352,497	317,612	1,422,294	1,315,577	1,774,791	1,633,189
1993	open			835,952	260,033	1,434,811	1,657,182	2,270,763	1,917,215
1994	open			373,415	273,364	1,002,018	940,422	1,375,433	1,213,786
1995	open			297,069	401,693	646,795	226,084	943,864	627,777
1996	open			423,073	486,469	506,756	1,014,854	929,829	1,501,324
1997	open			535,104	839,173	815,480	2,242,913	1,350,583	3,082,087
1998	open			827,876	584,163	506,684	756,893	1,334,560	1,341,056
1999	open			592,575	710,911	1,263,068	2,299,239	1,855,642	3,010,150
2000	open			357,647	407,647	744,015	1,360,721	1,101,662	1,768,367
2001	open			393,022	497,309	1,136,840	1,983,516	1,529,862	2,480,826
2002	open			546,434	480,149	1,856,110	3,745,662	2,402,544	4,225,810
2003	open			523,352	537,467	1,266,494	2,571,116	1,789,846	3,108,583
2004	open			516,887	546,528	1,631,261	3,469,432	2,148,148	4,015,960
2005	open			379,266	501,609	815,176	2,527,755	1,194,442	3,029,364
2006	open			374,451	667,315	935,977	3,233,186	1,310,429	3,900,501

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
2007	open			458,684	610,537	1,350,790	4,346,317	1,809,474	4,956,854
2008	open			143,319	176,351	606,027	1,549,602	749,346	1,725,953
2009	open			204,038	229,826	1,065,919	1,904,934	1,269,958	2,134,760
2010	open			68,804	65,464	1,032,623	1,963,080	1,101,427	2,028,544
2011	open			153,396	132,950	1,190,918	1,609,640	1,344,314	1,742,590
2012	open			148,669	108,662	1,148,740	1,141,050	1,297,409	1,249,713
2013	open			165,648	115,507	2,003,067	3,582,930	2,168,715	3,698,437
2014	open			15,591	13,566	536,406	751,985	551,997	765,551
2015	open			196,312	80,594	574,456	624,828	770,768	705,421
2016	open			207,788	158,880	498,058	1,510,037	705,846	1,668,917
2017	open			226,237	307,057	1,977,729	3,944,927	2,203,967	4,251,984
2018	open			225,943	224,399	1,741,511	2,735,708	1,967,454	2,960,107
2019	open			277,512	209,806	1,938,113	3,316,097	2,215,625	3,525,903
2020	open			283,055	170,302	1,425,021	2,162,309	1,708,076	2,332,612
2021	open			193,970	187,979	1,263,292	2,224,826	1,457,261	2,412,806
2022	open			298,709	370,369	1,394,860	3,053,693	1,693,568	3,424,062
2023	open			351,204	257,568	1,194,233	2,036,081	1,545,436	2,293,649

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

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981	closed	0	0	0	0	0	0	0	0
1982	closed	0	0	0	0	0	0	0	0
1983	closed	0	0	0	0	0	0	0	0
1984	closed	0	0	0	0	0	0	0	0
1985	closed	0	0	0	0	0	0	0	0
1986	closed			0	0	0	0	0	0
1987	closed			0	0	0	0	0	0
1988	closed			0	0	0	0	0	0
1989	closed			0	0	0	0	0	0
1990	closed			0	0	0	0	0	0
1991	closed			0	0	0	0	0	0
1992	closed			0	0	0	0	0	0
1993	closed			0	0	0	0	0	0
1994	closed			0	0	0	0	0	0
1995	closed			0	0	0	0	0	0
1996	closed			0	0	0	0	0	0
1997	closed			210	0	0	0	210	0
1998	closed			0	310	0	52,945	0	53,255
1999	closed			250	0	0	23,419	250	23,419
2000	closed			28	89	2,321	1,556	2,349	1,644
2001	closed			42	2,682	0	0	42	2,682
2002	closed			233	0	6,585	0	6,818	0
2003	closed			27	2,578	0	2,920	27	5,498
2004	closed			148	693	0	0	148	693
2005	closed			455	1,044	0	36,258	455	37,302
2006	closed			969	3,396	0	24,378	969	27,774
2007	closed			64	2,001	0	0	64	2,001
2008	closed			987	11,884	0	33,252	987	45,136
2009	closed			0	16,676	1,142	62,761	1,142	79,438
2010	closed			1,133	4,049	1,357	105,442	2,490	109,491
2011	closed			0	1,948	1,269	1,485,977	1,269	1,487,925
2012	closed			0	0	1,028	0	1,028	0
2013	closed			0	256	2,666	8,516	2,666	8,772

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
2014	closed			259	1,585	0	36,284	259	37,868
2015	closed			0	6,091	0	16,878	0	22,969
2016	closed			0	31,528	8,662	676,125	8,662	707,653
2017	closed			92	130,808	0	141,688	92	272,497
2018	closed			0	36,845	0	426,915	0	463,760
2019	closed			0	6,495	0	244,439	0	250,934
2020	closed			0	4,300	0	184,041	0	188,341
2021	closed			0	30,206	0	36,258	0	66,464
2022	closed			0	12,304	0	102,080	0	114,384
2023	closed			96	129,628	18,103	48,348	18,199	177,976
1981	open	13,529	0	21,631	0	568,244	76,357	603,403	76,357
1982	open	2,538	247	4,058	396	11,959	0	18,555	643
1983	open	23,342	0	37,321	0	580,760	0	641,422	0
1984	open	18,865	2,248	31,915	3,594	21,342	82,405	72,122	88,247
1985	open	6,866	630	11,182	1,007	157,060	41,324	175,109	42,961
1986	open			61,607	17,128	181,242	11,688	242,849	28,816
1987	open			3,429	1,642	106,125	3,103	109,554	4,745
1988	open			5,934	0	49,105	35,687	55,039	35,687
1989	open			11,474	0	142,386	7,022	153,860	7,022
1990	open			0	0	42,071	21,540	42,071	21,540
1991	open			75	0	17,216	78,277	17,291	78,277
1992	open			2,627	1,018	3,580	80,073	6,206	81,091
1993	open			0	0	0	29,726	0	29,726
1994	open			57	57	0	38,864	57	38,921
1995	open			0	0	3,298	13,967	3,298	13,967
1996	open			387	0	36,610	35,811	36,996	35,811
1997	open			1,519	543	0	25,990	1,519	26,533
1998	open			8,037	2,765	0	12,660	8,037	15,426
1999	open			552	1,918	11,548	26,440	12,100	28,357
2000	open			369	170	0	66,169	369	66,339
2001	open			1,474	76	0	5,729	1,474	5,806
2002	open			290	0	1,124	6,874	1,414	6,874
2003	open			1,572	300	2,828	2,069	4,399	2,369
2004	open			292	0	7,039	92,594	7,331	92,594
2005	open			1,288	522	81,014	92,921	82,301	93,444
2006	open			9,979	14,282	18,542	30,938	28,521	45,220

Year	FED_CLOSED	Hbt		Cbt		Priv		Total	
		AB1	B2	AB1	B2	AB1	B2	AB1	B2
2007	open			776	230	41,336	43,270	42,112	43,501
2008	open			2,298	4,222	5,624	7,229	7,922	11,452
2009	open			1,893	980	17,792	40,073	19,685	41,053
2010	open			3,257	0	1,842	24,026	5,099	24,026
2011	open			0	0	15,121	14,601	15,121	14,601
2012	open			3,002	1,344	13,612	14,288	16,614	15,633
2013	open			487	10,940	908	0	1,395	10,940
2014	open			3,631	7,494	5,175	13,102	8,806	20,596
2015	open			8,019	9,051	1,901	7,123	9,920	16,174
2016	open			8,143	10,754	18,537	32,036	26,680	42,790
2017	open			19,345	29,195	77,403	119,038	96,748	148,234
2018	open			23,394	22,182	101,256	220,124	124,650	242,306
2019	open			18,048	18,665	106,202	150,713	124,251	169,378
2020	open			26,398	9,496	37,813	55,887	64,211	65,383
2021	open			45,338	36,529	79,991	212,682	125,328	249,211
2022	open			34,005	31,386	116,229	196,067	150,234	227,453
2023	open			49,535	37,390	135,100	283,178	184,635	320,568

Table 3.1. Red Snapper 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 **West** domain (Texas through Louisiana). 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 Red Snapper.

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1981	closed	0	0.00	11 (6)	76 (21)	0	0.00	11 (6)	76 (21)	0	0.00	49 (4)	411 (14)
1982	closed	0	0.00	6 (2)	71 (19)	0	0.00	6 (2)	71 (19)	0	0.00	107 (20)	854 (33)
1983	closed	0	0.00	147 (35)	512 (156)	0	0.00	38 (27)	309 (148)	0	0.00	608 (74)	5,855 (128)
1984	closed	0	0.00	109 (29)	456 (86)	0	0.00	35 (28)	306 (85)	0	0.00	622 (64)	4,171 (126)
1985	closed	0	0.00	122 (12)	375 (31)	0	0.00	15 (6)	159 (24)	0	0.00	724 (65)	6,096 (122)
1986	closed	0	0.00	203 (47)	1,034 (70)					0	0.00	1,059 (69)	9,738 (99)
1987	closed	0	0.00	185 (28)	746 (33)					0	0.00	882 (64)	8,291 (101)
1988	closed	0	0.00	169 (8)	523 (9)					0	0.00	966 (74)	8,412 (116)
1989	closed	0	0.00	205 (7)	571 (10)					0	0.00	841 (61)	6,606 (88)
1990	closed	0	0.00	153 (8)	462 (23)					0	0.00	743 (57)	4,775 (102)
1991	closed	0	0.00	205 (30)	752 (55)					0	0.00	780 (60)	6,297 (109)
1992	closed	0	0.00	253 (37)	1,128 (77)					0	0.00	1,017 (91)	9,954 (173)
1993	closed	0	0.00	206 (19)	743 (34)					0	0.00	946 (91)	8,974 (193)
1994	closed	0	0.00	251 (25)	798 (44)					0	0.00	976 (105)	10,076 (249)
1995	closed	0	0.00	240 (22)	844 (39)					0	0.00	952 (110)	9,518 (417)
1996	closed	0	0.00	288 (27)	928 (37)					0	0.00	1,001 (98)	9,500 (343)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1997	closed	0	0.00	305 (34)	1,045 (43)					16,941	0.19	974 (112)	10,103 (329)
1998	closed	0	0.00	349 (32)	1,394 (46)					443	0.22	982 (89)	10,313 (285)
1999	closed	2,489	0.38	448 (22)	1,590 (25)					87,627	0.22	1,191 (108)	12,493 (206)
2000	closed	0	0.00	465 (30)	1,830 (39)					3,880	0.23	1,211 (98)	11,619 (253)
2001	closed	0	0.00	449 (26)	1,772 (35)					63,628	0.21	1,091 (91)	10,437 (210)
2002	closed	0	0.00	441 (39)	1,946 (61)					44,569	0.19	1,064 (93)	10,312 (220)
2003	closed	0	0.00	429 (39)	1,838 (66)					27,147	0.20	1,109 (87)	10,954 (217)
2004	closed	0	0.00	454 (47)	1,876 (67)					46,200	0.20	1,194 (84)	11,654 (207)
2005	closed	5,589	0.57	402 (43)	1,512 (83)					117,209	0.18	1,139 (96)	10,618 (257)
2006	closed	0	0.00	472 (46)	2,011 (87)					91,530	0.20	1,252 (128)	12,070 (357)
2007	closed	0	0.00	485 (51)	2,031 (83)					80,373	0.20	1,193 (110)	11,387 (248)
2008	closed	3,700	0.51	433 (22)	1,679 (41)					167,963	0.25	1,209 (88)	12,055 (195)
2009	closed	1,198	0.27	429 (27)	1,771 (37)					104,753	0.20	1,205 (93)	11,957 (225)
2010	closed	5,439	0.42	417 (11)	1,503 (15)					71,077	0.23	1,141 (61)	10,691 (121)
2011	closed	2,492	0.54	501 (15)	1,830 (21)					145,783	0.22	1,224 (73)	12,031 (182)
2012	closed	2,101	0.24	485 (25)	1,988 (41)					184,279	0.20	1,276 (78)	11,839 (175)
2013	closed	2,954	0.37	401 (24)	1,367 (34)					293,090	0.20	1,215 (98)	11,640 (245)
2014	closed	6,704	0.24	787 (39)	2,263 (63)					440,740	0.18	2,146 (166)	16,886 (389)
2015	closed	14,043	0.13	872 (94)	2,877 (190)					501,377	0.15	2,204 (232)	16,618 (624)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2016	closed	13,628	0.10	893 (89)	2,599 (176)					323,227	0.17	2,311 (209)	17,275 (479)
2017	closed	15,195	0.11	916 (85)	2,971 (196)					189,270	0.16	2,269 (209)	17,319 (609)
2018	closed	3,122	0.21	953 (72)	3,580 (237)					127,311	0.19	2,273 (201)	15,826 (726)
2019	closed	4,552	0.21	1,039 (77)	3,698 (224)					183,264	0.20	2,278 (230)	16,266 (844)
2020	closed	1,347	0.18	919 (61)	3,202 (194)					149,941	0.20	2,234 (196)	18,201 (706)
2021	closed	3,652	0.14	1,067 (98)	4,034 (258)					57,026	0.20	2,190 (250)	14,243 (799)
2022	closed	5,585	0.13	1,005 (100)	3,695 (232)					48,762	0.20	2,208 (227)	12,753 (666)
2023	closed	7,654	0.11	1,114 (123)	4,134 (341)					123,118	0.17	2,309 (281)	14,314 (860)
1981	open	225,895	0.55	11 (6)	76 (21)	19,169	0.57	11 (6)	76 (21)	3,075,407	0.65	49 (4)	411 (14)
1982	open	274,792	0.95	6 (2)	71 (19)	23,483	0.97	6 (2)	71 (19)	1,863,327	0.39	107 (20)	854 (33)
1983	open	422,065	0.29	147 (35)	512 (156)	35,957	0.30	38 (27)	309 (148)	3,553,822	0.33	608 (74)	5,855 (128)
1984	open	378,268	0.43	109 (29)	456 (86)	33,007	0.43	35 (28)	306 (85)	789,515	0.27	622 (64)	4,171 (126)
1985	open	613,132	0.60	122 (12)	375 (31)	52,973	0.61	15 (6)	159 (24)	1,272,721	0.85	724 (65)	6,096 (122)
1986	open	77,146	0.21	203 (47)	1,034 (70)					1,730,541	0.72	1,059 (69)	9,738 (99)
1987	open	64,283	0.26	185 (28)	746 (33)					520,875	0.34	882 (64)	8,291 (101)
1988	open	15,018	0.81	169 (8)	523 (9)					805,754	0.33	966 (74)	8,412 (116)
1989	open	63,291	0.71	205 (7)	571 (10)					531,468	0.27	841 (61)	6,606 (88)
1990	open	28,440	0.58	153 (8)	462 (23)					395,835	0.31	743 (57)	4,775 (102)
1991	open	115,403	0.28	205 (30)	752 (55)					470,728	0.27	780 (60)	6,297 (109)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1992	open	123,052	0.31	253 (37)	1,128 (77)					625,422	0.18	1,017 (91)	9,954 (173)
1993	open	81,765	0.30	206 (19)	743 (34)					1,043,435	0.25	946 (91)	8,974 (193)
1994	open	57,285	0.26	251 (25)	798 (44)					1,205,383	0.21	976 (105)	10,076 (249)
1995	open	73,649	0.50	240 (22)	844 (39)					1,528,465	0.23	952 (110)	9,518 (417)
1996	open	57,143	0.49	288 (27)	928 (37)					1,066,610	0.18	1,001 (98)	9,500 (343)
1997	open	68,148	0.29	305 (34)	1,045 (43)					1,031,038	0.17	974 (112)	10,103 (329)
1998	open	106,153	0.34	349 (32)	1,394 (46)					1,011,809	0.25	982 (89)	10,313 (285)
1999	open	54,319	0.45	448 (22)	1,590 (25)					569,442	0.18	1,191 (108)	12,493 (206)
2000	open	20,477	0.25	465 (30)	1,830 (39)					652,419	0.20	1,211 (98)	11,619 (253)
2001	open	19,278	0.30	449 (26)	1,772 (35)					404,235	0.19	1,091 (91)	10,437 (210)
2002	open	54,462	0.25	441 (39)	1,946 (61)					383,680	0.18	1,064 (93)	10,312 (220)
2003	open	56,438	0.26	429 (39)	1,838 (66)					354,966	0.19	1,109 (87)	10,954 (217)
2004	open	81,847	0.26	454 (47)	1,876 (67)					314,269	0.19	1,194 (84)	11,654 (207)
2005	open	68,563	0.28	402 (43)	1,512 (83)					440,689	0.18	1,139 (96)	10,618 (257)
2006	open	95,019	0.21	472 (46)	2,011 (87)					605,023	0.17	1,252 (128)	12,070 (357)
2007	open	64,282	0.20	485 (51)	2,031 (83)					457,437	0.17	1,193 (110)	11,387 (248)
2008	open	21,714	0.43	433 (22)	1,679 (41)					250,134	0.23	1,209 (88)	12,055 (195)
2009	open	28,190	0.41	429 (27)	1,771 (37)					314,241	0.19	1,205 (93)	11,957 (225)
2010	open	2,235	0.42	417 (11)	1,503 (15)					185,193	0.22	1,141 (61)	10,691 (121)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2011	open	7,957	0.46	501 (15)	1,830 (21)					234,413	0.21	1,224 (73)	12,031 (182)
2012	open	25,657	0.46	485 (25)	1,988 (41)					264,446	0.23	1,276 (78)	11,839 (175)
2013	open	16,968	0.53	401 (24)	1,367 (34)					285,538	0.19	1,215 (98)	11,640 (245)
2014	open	4,567	0.19	787 (39)	2,263 (63)					146,268	0.18	2,146 (166)	16,886 (389)
2015	open	14,686	0.13	872 (94)	2,877 (190)					212,406	0.15	2,204 (232)	16,618 (624)
2016	open	20,092	0.10	893 (89)	2,599 (176)					132,866	0.17	2,311 (209)	17,275 (479)
2017	open	21,585	0.11	916 (85)	2,971 (196)					374,967	0.16	2,269 (209)	17,319 (609)
2018	open	22,650	0.15	953 (72)	3,580 (237)					507,040	0.15	2,273 (201)	15,826 (726)
2019	open	24,229	0.14	1,039 (77)	3,698 (224)					758,408	0.17	2,278 (230)	16,266 (844)
2020	open	16,567	0.14	919 (61)	3,202 (194)					426,347	0.16	2,234 (196)	18,201 (706)
2021	open	24,204	0.13	1,067 (98)	4,034 (258)					493,663	0.16	2,190 (250)	14,243 (799)
2022	open	20,977	0.12	1,005 (100)	3,695 (232)					390,448	0.16	2,208 (227)	12,753 (666)
2023	open	35,398	0.10	1,114 (123)	4,134 (341)					582,984	0.15	2,309 (281)	14,314 (860)

Table 3.2. Red Snapper 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 **Central** domain (Mississippi through the Florida panhandle). 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 Red Snapper.

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1981	closed	0	0.00	36 (14)	231 (33)	0	0.00	36 (14)	231 (33)	0	0.00	102 (10)	749 (16)
1982	closed	0	0.00	44 (22)	356 (95)	0	0.00	44 (22)	356 (95)	0	0.00	216 (19)	1,731 (31)
1983	closed	0	0.00	47 (26)	468 (158)	0	0.00	47 (26)	468 (158)	0	0.00	63 (8)	571 (20)
1984	closed	0	0.00	43 (15)	588 (61)	0	0.00	43 (15)	588 (61)	0	0.00	82 (9)	750 (12)
1985	closed	0	0.00	33 (20)	356 (99)	0	0.00	33 (20)	356 (99)	0	0.00	121 (7)	961 (12)
1986	closed	0	0.00	124 (55)	1,077 (234)					0	0.00	397 (16)	2,888 (23)
1987	closed	0	0.00	149 (75)	1,435 (137)					0	0.00	460 (54)	4,081 (77)
1988	closed	0	0.00	165 (71)	1,250 (132)					0	0.00	449 (18)	3,300 (26)
1989	closed	0	0.00	124 (47)	950 (98)					0	0.00	299 (19)	2,053 (21)
1990	closed	0	0.00	75 (33)	609 (56)					0	0.00	164 (20)	1,256 (37)
1991	closed	0	0.00	127 (73)	1,012 (137)					0	0.00	232 (37)	1,520 (61)
1992	closed	0	0.00	244 (163)	1,967 (261)					0	0.00	425 (85)	2,905 (134)
1993	closed	0	0.00	107 (77)	946 (179)					0	0.00	286 (60)	2,027 (87)
1994	closed	0	0.00	115 (71)	1,013 (156)					0	0.00	331 (43)	2,798 (76)
1995	closed	0	0.00	82 (40)	672 (94)					0	0.00	222 (35)	1,950 (65)
1996	closed	0	0.00	111 (56)	935 (117)					0	0.00	362 (47)	2,938 (68)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1997	closed	8,652	0.15	212 (146)	1,237 (273)					2,341	0.20	306 (58)	2,407 (90)
1998	closed	43,598	0.10	355 (221)	2,565 (402)					56,763	0.21	380 (48)	3,060 (64)
1999	closed	39,886	0.10	487 (319)	4,870 (667)					37,955	0.23	491 (75)	4,261 (182)
2000	closed	18,728	0.08	541 (278)	6,866 (761)					120,508	0.21	423 (55)	4,104 (126)
2001	closed	3,019	0.09	419 (221)	5,371 (531)					255,847	0.22	403 (54)	4,192 (149)
2002	closed	9,699	0.09	367 (213)	5,116 (552)					15,864	0.20	415 (59)	3,966 (167)
2003	closed	2,790	0.09	410 (236)	5,378 (603)					21,922	0.19	466 (61)	4,157 (172)
2004	closed	14,854	0.09	425 (243)	6,289 (779)					2,021	0.27	431 (75)	4,208 (168)
2005	closed	6,297	0.10	361 (223)	5,349 (644)					84,519	0.24	357 (44)	3,733 (121)
2006	closed	14,008	0.11	331 (200)	4,464 (517)					49,391	0.20	549 (71)	4,955 (114)
2007	closed	17,106	0.11	334 (178)	4,500 (537)					175,607	0.22	586 (71)	5,396 (163)
2008	closed	122,121	0.12	286 (147)	3,336 (341)					292,043	0.17	621 (59)	4,942 (141)
2009	closed	1,217	0.16	270 (64)	2,996 (187)					13,354	0.21	614 (46)	5,033 (143)
2010	closed	34	0.17	251 (63)	2,744 (197)					0	0.00	666 (27)	4,540 (93)
2011	closed	36	0.19	331 (43)	4,104 (153)					51,835	0.20	706 (40)	5,317 (150)
2012	closed	1,363	0.17	337 (59)	4,501 (199)					11,920	0.21	772 (38)	5,832 (149)
2013	closed	0	0.00	154 (22)	1,442 (84)					88,493	0.31	568 (60)	4,094 (267)
2014	closed	19,689	0.27	233 (29)	2,666 (90)					356,657	0.21	637 (58)	4,768 (256)
2015	closed	8,654	0.23	266 (58)	2,688 (234)					448,865	0.23	713 (68)	5,123 (263)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2016	closed	10,150	0.22	278 (65)	2,209 (250)					782,984	0.14	802 (126)	6,000 (410)
2017	closed	13,124	0.26	251 (56)	2,135 (198)					590,389	0.19	653 (112)	5,258 (496)
2018	closed	3,255	0.23	262 (64)	2,313 (252)					9,588	0.24	624 (68)	4,855 (303)
2019	closed	4,511	0.27	258 (71)	2,268 (251)					8,883	0.20	635 (85)	5,082 (427)
2020	closed	9,201	0.33	289 (67)	2,599 (290)					57,173	0.19	673 (79)	5,539 (340)
2021	closed	29,781	0.18	307 (80)	3,587 (420)					9,076	0.23	642 (74)	4,507 (271)
2022	closed	3,343	0.19	289 (85)	2,984 (296)					32,725	0.17	619 (88)	3,939 (281)
2023	closed	10,431	0.17	309 (103)	4,635 (629)					27,792	0.20	652 (73)	3,954 (179)
1981	open	68,050	0.82	36 (14)	231 (33)	43,279	0.82	36 (14)	231 (33)	1,814,671	0.55	102 (10)	749 (16)
1982	open	409,279	0.42	44 (22)	356 (95)	247,419	0.43	44 (22)	356 (95)	211,587	0.43	216 (19)	1,731 (31)
1983	open	760,147	0.32	47 (26)	468 (158)	475,424	0.32	47 (26)	468 (158)	751,639	0.56	63 (8)	571 (20)
1984	open	211,197	0.37	43 (15)	588 (61)	132,091	0.37	43 (15)	588 (61)	272,732	0.60	82 (9)	750 (12)
1985	open	238,864	0.38	33 (20)	356 (99)	149,394	0.38	33 (20)	356 (99)	612,117	0.55	121 (7)	961 (12)
1986	open	507,401	0.21	124 (55)	1,077 (234)					261,562	0.68	397 (16)	2,888 (23)
1987	open	457,049	0.24	149 (75)	1,435 (137)					491,587	0.26	460 (54)	4,081 (77)
1988	open	358,245	0.32	165 (71)	1,250 (132)					365,960	0.48	449 (18)	3,300 (26)
1989	open	203,867	0.27	124 (47)	950 (98)					588,397	0.75	299 (19)	2,053 (21)
1990	open	143,525	0.33	75 (33)	609 (56)					348,726	0.37	164 (20)	1,256 (37)
1991	open	189,578	0.21	127 (73)	1,012 (137)					806,726	0.25	232 (37)	1,520 (61)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1992	open	352,497	0.18	244 (163)	1,967 (261)					1,422,294	0.20	425 (85)	2,905 (134)
1993	open	835,952	0.34	107 (77)	946 (179)					1,434,811	0.19	286 (60)	2,027 (87)
1994	open	373,415	0.21	115 (71)	1,013 (156)					1,002,018	0.24	331 (43)	2,798 (76)
1995	open	297,069	0.27	82 (40)	672 (94)					646,795	0.26	222 (35)	1,950 (65)
1996	open	423,073	0.31	111 (56)	935 (117)					506,756	0.20	362 (47)	2,938 (68)
1997	open	535,104	0.15	212 (146)	1,237 (273)					815,480	0.20	306 (58)	2,407 (90)
1998	open	827,876	0.10	355 (221)	2,565 (402)					506,684	0.21	380 (48)	3,060 (64)
1999	open	592,575	0.10	487 (319)	4,870 (667)					1,263,068	0.23	491 (75)	4,261 (182)
2000	open	357,647	0.08	541 (278)	6,866 (761)					744,015	0.21	423 (55)	4,104 (126)
2001	open	393,022	0.09	419 (221)	5,371 (531)					1,136,840	0.22	403 (54)	4,192 (149)
2002	open	546,434	0.09	367 (213)	5,116 (552)					1,856,110	0.20	415 (59)	3,966 (167)
2003	open	523,352	0.09	410 (236)	5,378 (603)					1,266,494	0.19	466 (61)	4,157 (172)
2004	open	516,887	0.09	425 (243)	6,289 (779)					1,631,261	0.27	431 (75)	4,208 (168)
2005	open	379,266	0.10	361 (223)	5,349 (644)					815,176	0.24	357 (44)	3,733 (121)
2006	open	374,451	0.11	331 (200)	4,464 (517)					935,977	0.20	549 (71)	4,955 (114)
2007	open	458,684	0.11	334 (178)	4,500 (537)					1,350,790	0.22	586 (71)	5,396 (163)
2008	open	143,319	0.12	286 (147)	3,336 (341)					606,027	0.17	621 (59)	4,942 (141)
2009	open	204,038	0.16	270 (64)	2,996 (187)					1,065,919	0.21	614 (46)	5,033 (143)
2010	open	68,804	0.17	251 (63)	2,744 (197)					1,032,623	0.31	666 (27)	4,540 (93)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2011	open	153,396	0.19	331 (43)	4,104 (153)					1,190,918	0.20	706 (40)	5,317 (150)
2012	open	148,669	0.17	337 (59)	4,501 (199)					1,148,740	0.21	772 (38)	5,832 (149)
2013	open	165,648	0.35	154 (22)	1,442 (84)					2,003,067	0.31	568 (60)	4,094 (267)
2014	open	15,591	0.27	233 (29)	2,666 (90)					536,406	0.21	637 (58)	4,768 (256)
2015	open	196,312	0.23	266 (58)	2,688 (234)					574,456	0.23	713 (68)	5,123 (263)
2016	open	207,788	0.22	278 (65)	2,209 (250)					498,058	0.14	802 (126)	6,000 (410)
2017	open	226,237	0.26	251 (56)	2,135 (198)					1,977,729	0.19	653 (112)	5,258 (496)
2018	open	225,943	0.23	262 (64)	2,313 (252)					1,741,511	0.24	624 (68)	4,855 (303)
2019	open	277,512	0.27	258 (71)	2,268 (251)					1,938,113	0.20	635 (85)	5,082 (427)
2020	open	283,055	0.33	289 (67)	2,599 (290)					1,425,021	0.19	673 (79)	5,539 (340)
2021	open	193,970	0.18	307 (80)	3,587 (420)					1,263,292	0.23	642 (74)	4,507 (271)
2022	open	298,709	0.19	289 (85)	2,984 (296)					1,394,860	0.17	619 (88)	3,939 (281)
2023	open	351,204	0.17	309 (103)	4,635 (629)					1,194,233	0.20	652 (73)	3,954 (179)

Table 3.3. Red Snapper 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 **East** domain (western Florida through the Florida Keys). 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 Red Snapper.

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1981	closed	0	0.00	38 (2)	399 (7)	0	0.00	29 (2)	358 (7)	0	0.00	92 (5)	813 (6)
1982	closed	0	0.00	38 (1)	246 (1)	0	0.00	26 (1)	224 (1)	0	0.00	186 (2)	1,566 (2)
1983	closed	0	0.00	64 (13)	849 (65)	0	0.00	38 (13)	849 (65)	0	0.00	87 (1)	825 (1)
1984	closed	0	0.00	79 (9)	947 (28)	0	0.00	38 (9)	882 (28)	0	0.00	70 (2)	790 (2)
1985	closed	0	0.00	62 (6)	865 (14)	0	0.00	41 (6)	839 (14)	0	0.00	67 (2)	650 (8)
1986	closed	0	0.00	128 (13)	716 (28)					0	0.00	344 (9)	1,837 (15)
1987	closed	0	0.00	99 (2)	470 (4)					0	0.00	539 (7)	3,242 (8)
1988	closed	0	0.00	95 (3)	464 (7)					0	0.00	495 (7)	3,811 (8)
1989	closed	0	0.00	59 (1)	336 (1)					0	0.00	306 (3)	2,734 (4)
1990	closed	0	0.00	49 (0)	299 (0)					0	0.00	320 (4)	2,913 (4)
1991	closed	0	0.00	66 (1)	342 (1)					0	0.00	337 (3)	3,037 (3)
1992	closed	0	0.00	104 (4)	644 (5)					0	0.00	624 (2)	7,860 (2)
1993	closed	0	0.00	100 (0)	605 (0)					0	0.00	548 (0)	6,468 (0)
1994	closed	0	0.00	88 (1)	600 (1)					0	0.00	500 (0)	7,313 (0)
1995	closed	0	0.00	111 (0)	769 (0)					0	0.00	463 (1)	6,724 (1)
1996	closed	0	0.00	114 (1)	725 (1)					0	0.00	613 (4)	8,257 (6)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1997	closed	210	0.75	244 (4)	1,549 (6)					0	0.00	595 (0)	8,589 (0)
1998	closed	0	0.00	389 (4)	3,009 (11)					0	0.00	633 (0)	9,766 (0)
1999	closed	250	0.46	550 (8)	5,114 (8)					0	0.00	872 (4)	12,083 (5)
2000	closed	28	0.75	562 (3)	5,739 (3)					2,321	1.00	672 (1)	8,831 (1)
2001	closed	42	0.53	433 (8)	5,373 (8)					0	0.00	652 (0)	10,487 (0)
2002	closed	233	0.53	488 (4)	5,334 (4)					6,585	0.72	730 (3)	11,925 (3)
2003	closed	27	0.39	548 (10)	5,989 (10)					0	0.00	807 (2)	11,029 (2)
2004	closed	148	0.47	446 (6)	4,951 (7)					0	0.00	536 (2)	9,208 (2)
2005	closed	455	0.45	362 (11)	4,100 (13)					0	0.00	513 (6)	8,529 (10)
2006	closed	969	0.86	221 (6)	2,492 (6)					0	0.00	519 (3)	8,433 (4)
2007	closed	64	0.74	290 (3)	2,695 (3)					0	0.00	522 (3)	8,394 (7)
2008	closed	987	0.61	364 (10)	3,437 (10)					0	0.00	634 (1)	9,028 (1)
2009	closed	0	0.00	274 (3)	2,483 (3)					1,142	0.60	650 (5)	9,948 (6)
2010	closed	1,133	0.76	309 (4)	3,191 (6)					1,357	0.72	625 (2)	9,617 (2)
2011	closed	0	0.00	332 (0)	3,209 (0)					1,269	0.66	636 (3)	8,942 (5)
2012	closed	0	0.00	420 (2)	3,704 (2)					1,028	0.72	697 (3)	9,297 (3)
2013	closed	0	0.00	245 (3)	2,004 (4)					2,666	0.79	679 (2)	8,229 (2)
2014	closed	259	0.66	393 (5)	3,311 (6)					0	0.00	881 (2)	11,532 (7)
2015	closed	0	0.00	416 (4)	3,015 (6)					0	0.00	878 (1)	10,938 (1)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2016	closed	0	0.00	420 (11)	3,036 (16)					8,662	0.62	825 (4)	9,890 (8)
2017	closed	92	0.51	339 (12)	2,754 (20)					0	0.00	640 (11)	8,174 (23)
2018	closed	0	0.00	336 (9)	2,758 (18)					0	0.00	600 (6)	6,431 (10)
2019	closed	0	0.00	316 (16)	2,220 (24)					0	0.00	609 (8)	6,339 (18)
2020	closed	0	0.00	342 (5)	2,228 (7)					0	0.00	715 (6)	7,253 (9)
2021	closed	0	0.00	432 (14)	3,446 (38)					0	0.00	624 (3)	5,182 (8)
2022	closed	0	0.00	322 (14)	2,119 (23)					0	0.00	589 (8)	4,199 (8)
2023	closed	96	0.33	444 (23)	3,541 (38)					18,103	0.54	651 (10)	5,458 (20)
1981	open	21,631	0.83	38 (2)	399 (7)	13,529	0.83	29 (2)	358 (7)	568,244	0.64	92 (5)	813 (6)
1982	open	4,058	1.00	38 (1)	246 (1)	2,538	1.00	26 (1)	224 (1)	11,959	0.80	186 (2)	1,566 (2)
1983	open	37,321	0.41	64 (13)	849 (65)	23,342	0.41	38 (13)	849 (65)	580,760	1.00	87 (1)	825 (1)
1984	open	31,915	0.64	79 (9)	947 (28)	18,865	0.68	38 (9)	882 (28)	21,342	0.72	70 (2)	790 (2)
1985	open	11,182	0.77	62 (6)	865 (14)	6,866	0.78	41 (6)	839 (14)	157,060	0.71	67 (2)	650 (8)
1986	open	61,607	0.51	128 (13)	716 (28)					181,242	0.50	344 (9)	1,837 (15)
1987	open	3,429	0.90	99 (2)	470 (4)					106,125	0.53	539 (7)	3,242 (8)
1988	open	5,934	0.66	95 (3)	464 (7)					49,105	0.49	495 (7)	3,811 (8)
1989	open	11,474	1.00	59 (1)	336 (1)					142,386	0.69	306 (3)	2,734 (4)
1990	open	0	0.00	49 (0)	299 (0)					42,071	0.53	320 (4)	2,913 (4)
1991	open	75	1.00	66 (1)	342 (1)					17,216	0.61	337 (3)	3,037 (3)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1992	open	2,627	0.64	104 (4)	644 (5)					3,580	0.71	624 (2)	7,860 (2)
1993	open	0	0.00	100 (0)	605 (0)					0	0.00	548 (0)	6,468 (0)
1994	open	57	1.00	88 (1)	600 (1)					0	0.00	500 (0)	7,313 (0)
1995	open	0	0.00	111 (0)	769 (0)					3,298	1.00	463 (1)	6,724 (1)
1996	open	387	1.00	114 (1)	725 (1)					36,610	0.64	613 (4)	8,257 (6)
1997	open	1,519	0.75	244 (4)	1,549 (6)					0	0.00	595 (0)	8,589 (0)
1998	open	8,037	0.69	389 (4)	3,009 (11)					0	0.00	633 (0)	9,766 (0)
1999	open	552	0.46	550 (8)	5,114 (8)					11,548	0.52	872 (4)	12,083 (5)
2000	open	369	0.75	562 (3)	5,739 (3)					0	0.00	672 (1)	8,831 (1)
2001	open	1,474	0.53	433 (8)	5,373 (8)					0	0.00	652 (0)	10,487 (0)
2002	open	290	0.53	488 (4)	5,334 (4)					1,124	0.72	730 (3)	11,925 (3)
2003	open	1,572	0.39	548 (10)	5,989 (10)					2,828	0.80	807 (2)	11,029 (2)
2004	open	292	0.47	446 (6)	4,951 (7)					7,039	0.92	536 (2)	9,208 (2)
2005	open	1,288	0.45	362 (11)	4,100 (13)					81,014	0.60	513 (6)	8,529 (10)
2006	open	9,979	0.86	221 (6)	2,492 (6)					18,542	0.79	519 (3)	8,433 (4)
2007	open	776	0.74	290 (3)	2,695 (3)					41,336	0.82	522 (3)	8,394 (7)
2008	open	2,298	0.61	364 (10)	3,437 (10)					5,624	1.00	634 (1)	9,028 (1)
2009	open	1,893	0.62	274 (3)	2,483 (3)					17,792	0.60	650 (5)	9,948 (6)
2010	open	3,257	0.76	309 (4)	3,191 (6)					1,842	0.72	625 (2)	9,617 (2)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2011	open	0	0.00	332 (0)	3,209 (0)					15,121	0.66	636 (3)	8,942 (5)
2012	open	3,002	0.82	420 (2)	3,704 (2)					13,612	0.72	697 (3)	9,297 (3)
2013	open	487	0.76	245 (3)	2,004 (4)					908	0.79	679 (2)	8,229 (2)
2014	open	3,631	0.66	393 (5)	3,311 (6)					5,175	0.75	881 (2)	11,532 (7)
2015	open	8,019	0.68	416 (4)	3,015 (6)					1,901	1.00	878 (1)	10,938 (1)
2016	open	8,143	0.54	420 (11)	3,036 (16)					18,537	0.62	825 (4)	9,890 (8)
2017	open	19,345	0.51	339 (12)	2,754 (20)					77,403	0.42	640 (11)	8,174 (23)
2018	open	23,394	0.62	336 (9)	2,758 (18)					101,256	0.46	600 (6)	6,431 (10)
2019	open	18,048	0.31	316 (16)	2,220 (24)					106,202	0.53	609 (8)	6,339 (18)
2020	open	26,398	0.53	342 (5)	2,228 (7)					37,813	0.51	715 (6)	7,253 (9)
2021	open	45,338	0.47	432 (14)	3,446 (38)					79,991	0.68	624 (3)	5,182 (8)
2022	open	34,005	0.42	322 (14)	2,119 (23)					116,229	0.51	589 (8)	4,199 (8)
2023	open	49,535	0.33	444 (23)	3,541 (38)					135,100	0.54	651 (10)	5,458 (20)

Table 4.1. Red Snapper 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 **West** domain (Texas through Louisiana). 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 Red Snapper.

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1981	closed	0	0.00	11 (0)	76 (0)	0	0.00	11 (0)	76 (0)	0	0.00	49 (3)	411 (6)
1982	closed	0	0.00	6 (1)	71 (1)	0	0.00	6 (1)	71 (1)	0	0.00	107 (1)	854 (3)
1983	closed	0	0.00	147 (3)	512 (3)	0	0.00	38 (3)	309 (3)	0	0.00	608 (0)	5,855 (0)
1984	closed	0	0.00	109 (0)	456 (0)	0	0.00	35 (0)	306 (0)	0	0.00	622 (0)	4,171 (0)
1985	closed	0	0.00	122 (0)	375 (0)	0	0.00	15 (0)	159 (0)	0	0.00	724 (2)	6,096 (3)
1986	closed	0	0.00	203 (12)	1,034 (20)					0	0.00	1,059 (0)	9,738 (0)
1987	closed	0	0.00	185 (2)	746 (4)					0	0.00	882 (1)	8,291 (2)
1988	closed	0	0.00	169 (2)	523 (5)					0	0.00	966 (5)	8,412 (11)
1989	closed	0	0.00	205 (1)	571 (6)					0	0.00	841 (4)	6,606 (10)
1990	closed	0	0.00	153 (5)	462 (35)					0	0.00	743 (6)	4,775 (13)
1991	closed	0	0.00	205 (24)	752 (177)					0	0.00	780 (2)	6,297 (3)
1992	closed	0	0.00	253 (28)	1,128 (197)					0	0.00	1,017 (13)	9,954 (38)
1993	closed	0	0.00	206 (14)	743 (83)					0	0.00	946 (13)	8,974 (27)
1994	closed	0	0.00	251 (17)	798 (79)					0	0.00	976 (9)	10,076 (28)
1995	closed	0	0.00	240 (12)	844 (79)					0	0.00	952 (10)	9,518 (31)
1996	closed	0	0.00	288 (13)	928 (52)					0	0.00	1,001 (10)	9,500 (14)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1997	closed	0	0.00	305 (14)	1,045 (29)					0	0.00	974 (8)	10,103 (22)
1998	closed	0	0.00	349 (11)	1,394 (34)					56,614	0.53	982 (11)	10,313 (31)
1999	closed	356	0.54	448 (5)	1,590 (15)					54,315	0.40	1,191 (24)	12,493 (78)
2000	closed	158	0.34	465 (11)	1,830 (31)					247,325	0.40	1,211 (17)	11,619 (34)
2001	closed	0	0.00	449 (3)	1,772 (10)					65,750	0.50	1,091 (12)	10,437 (22)
2002	closed	1,617	0.36	441 (20)	1,946 (94)					613,726	0.74	1,064 (7)	10,312 (14)
2003	closed	2,181	0.28	429 (22)	1,838 (131)					622,788	0.68	1,109 (7)	10,954 (26)
2004	closed	1,209	0.31	454 (29)	1,876 (169)					2,476,636	0.86	1,194 (8)	11,654 (23)
2005	closed	24,110	0.32	402 (21)	1,512 (139)					994,555	0.59	1,139 (12)	10,618 (37)
2006	closed	6,380	0.26	472 (31)	2,011 (265)					393,903	0.42	1,252 (23)	12,070 (74)
2007	closed	1,369	0.23	485 (31)	2,031 (218)					132,917	0.37	1,193 (16)	11,387 (65)
2008	closed	22,816	0.47	433 (11)	1,679 (42)					796,528	0.51	1,209 (15)	12,055 (57)
2009	closed	14,931	0.51	429 (4)	1,771 (12)					612,734	0.45	1,205 (16)	11,957 (64)
2010	closed	870	1.00	417 (1)	1,503 (4)					187,964	1.06	1,141 (2)	10,691 (3)
2011	closed	610	0.76	501 (2)	1,830 (10)					838,075	0.59	1,224 (8)	12,031 (24)
2012	closed	1,308	0.42	485 (11)	1,988 (39)					86,309	0.49	1,276 (12)	11,839 (46)
2013	closed	10,234	0.54	401 (6)	1,367 (23)					1,146,449	0.47	1,215 (24)	11,640 (103)
2014	closed	679	0.34	787 (0)	2,263 (0)					492,825	0.33	2,146 (0)	16,886 (0)
2015	closed	1,730	0.26	872 (0)	2,877 (0)					604,228	0.33	2,204 (0)	16,618 (0)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2016	closed	1,653	0.24	893 (23)	2,599 (30)					391,652	0.33	2,311 (87)	17,275 (166)
2017	closed	4,641	0.18	916 (26)	2,971 (41)					279,535	0.28	2,269 (99)	17,319 (201)
2018	closed	2,563	0.21	953 (36)	3,580 (62)					277,138	0.28	2,273 (98)	15,826 (277)
2019	closed	17,405	0.23	1,039 (59)	3,698 (111)					321,895	0.25	2,278 (129)	16,266 (367)
2020	closed	3,558	0.21	919 (34)	3,202 (57)					449,321	0.27	2,234 (106)	18,201 (310)
2021	closed	2,313	0.15	1,067 (38)	4,034 (79)					247,047	0.31	2,190 (134)	14,243 (305)
2022	closed	4,113	0.25	1,005 (30)	3,695 (47)					97,435	0.31	2,208 (84)	12,753 (182)
2023	closed	2,331	0.14	1,114 (49)	4,134 (106)					146,675	0.29	2,309 (145)	14,314 (329)
1981	open	0	0.00	11 (0)	76 (0)	0	0.00	11 (0)	76 (0)	30,293	0.65	49 (3)	411 (6)
1982	open	13,299	0.98	6 (1)	71 (1)	1,136	1.00	6 (1)	71 (1)	6,491	0.75	107 (1)	854 (3)
1983	open	1,552	0.71	147 (3)	512 (3)	132	0.73	38 (3)	309 (3)	0	0.00	608 (0)	5,855 (0)
1984	open	0	0.00	109 (0)	456 (0)	0	0.00	35 (0)	306 (0)	0	0.00	622 (0)	4,171 (0)
1985	open	0	0.00	122 (0)	375 (0)	0	0.00	15 (0)	159 (0)	438,402	0.81	724 (2)	6,096 (3)
1986	open	2,521	0.41	203 (12)	1,034 (20)					0	0.00	1,059 (0)	9,738 (0)
1987	open	1,802	0.84	185 (2)	746 (4)					120,038	0.98	882 (1)	8,291 (2)
1988	open	1,213	0.86	169 (2)	523 (5)					529,273	0.55	966 (5)	8,412 (11)
1989	open	4,604	0.98	205 (1)	571 (6)					371,122	0.55	841 (4)	6,606 (10)
1990	open	64,074	0.67	153 (5)	462 (35)					422,258	0.71	743 (6)	4,775 (13)
1991	open	140,526	0.33	205 (24)	752 (177)					410,625	0.97	780 (2)	6,297 (3)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1992	open	111,920	0.37	253 (28)	1,128 (197)					450,630	0.33	1,017 (13)	9,954 (38)
1993	open	67,206	0.32	206 (14)	743 (83)					528,829	0.32	946 (13)	8,974 (27)
1994	open	107,784	0.32	251 (17)	798 (79)					1,213,187	0.53	976 (9)	10,076 (28)
1995	open	89,025	0.49	240 (12)	844 (79)					1,942,650	0.48	952 (10)	9,518 (31)
1996	open	90,822	0.47	288 (13)	928 (52)					413,058	0.49	1,001 (10)	9,500 (14)
1997	open	61,416	0.33	305 (14)	1,045 (29)					488,430	0.51	974 (8)	10,103 (22)
1998	open	48,023	0.49	349 (11)	1,394 (34)					735,054	0.53	982 (11)	10,313 (31)
1999	open	12,521	0.54	448 (5)	1,590 (15)					1,983,076	0.40	1,191 (24)	12,493 (78)
2000	open	9,829	0.34	465 (11)	1,830 (31)					478,639	0.40	1,211 (17)	11,619 (34)
2001	open	15,101	0.56	449 (3)	1,772 (10)					448,855	0.50	1,091 (12)	10,437 (22)
2002	open	36,103	0.36	441 (20)	1,946 (94)					173,885	0.74	1,064 (7)	10,312 (14)
2003	open	57,242	0.28	429 (22)	1,838 (131)					1,129,394	0.68	1,109 (7)	10,954 (26)
2004	open	177,321	0.31	454 (29)	1,876 (169)					710,292	0.86	1,194 (8)	11,654 (23)
2005	open	172,778	0.32	402 (21)	1,512 (139)					1,029,971	0.59	1,139 (12)	10,618 (37)
2006	open	195,955	0.26	472 (31)	2,011 (265)					1,846,480	0.42	1,252 (23)	12,070 (74)
2007	open	124,251	0.23	485 (31)	2,031 (218)					937,294	0.37	1,193 (16)	11,387 (65)
2008	open	45,381	0.47	433 (11)	1,679 (42)					811,091	0.51	1,209 (15)	12,055 (57)
2009	open	18,194	0.51	429 (4)	1,771 (12)					512,690	0.45	1,205 (16)	11,957 (64)
2010	open	0	0.00	417 (1)	1,503 (4)					53,842	1.06	1,141 (2)	10,691 (3)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2011	open	6,775	0.76	501 (2)	1,830 (10)					497,160	0.59	1,224 (8)	12,031 (24)
2012	open	17,852	0.42	485 (11)	1,988 (39)					603,666	0.49	1,276 (12)	11,839 (46)
2013	open	17,473	0.54	401 (6)	1,367 (23)					689,794	0.47	1,215 (24)	11,640 (103)
2014	open	3,685	0.34	787 (0)	2,263 (0)					114,397	0.33	2,146 (0)	16,886 (0)
2015	open	9,392	0.26	872 (0)	2,877 (0)					140,256	0.33	2,204 (0)	16,618 (0)
2016	open	11,402	0.24	893 (23)	2,599 (30)					137,042	0.33	2,311 (87)	17,275 (166)
2017	open	5,280	0.18	916 (26)	2,971 (41)					560,220	0.28	2,269 (99)	17,319 (201)
2018	open	4,381	0.21	953 (36)	3,580 (62)					588,495	0.28	2,273 (98)	15,826 (277)
2019	open	16,556	0.23	1,039 (59)	3,698 (111)					1,333,841	0.25	2,278 (129)	16,266 (367)
2020	open	4,128	0.21	919 (34)	3,202 (57)					769,776	0.27	2,234 (106)	18,201 (310)
2021	open	13,338	0.15	1,067 (38)	4,034 (79)					760,003	0.31	2,190 (134)	14,243 (305)
2022	open	4,394	0.25	1,005 (30)	3,695 (47)					480,125	0.31	2,208 (84)	12,753 (182)
2023	open	12,383	0.14	1,114 (49)	4,134 (106)					902,316	0.29	2,309 (145)	14,314 (329)

Table 4.2. Red Snapper 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 **Central** domain (Mississippi through the Florida panhandle). 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 Red Snapper.

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1981	closed	0	0.00	36 (2)	231 (2)	0	0.00	36 (2)	231 (2)	0	0.00	102 (3)	749 (5)
1982	closed	0	0.00	44 (2)	356 (2)	0	0.00	44 (2)	356 (2)	0	0.00	216 (4)	1,731 (4)
1983	closed	0	0.00	47 (0)	468 (0)	0	0.00	47 (0)	468 (0)	0	0.00	63 (1)	571 (1)
1984	closed	0	0.00	43 (1)	588 (1)	0	0.00	43 (1)	588 (1)	0	0.00	82 (0)	750 (0)
1985	closed	0	0.00	33 (1)	356 (2)	0	0.00	33 (1)	356 (2)	0	0.00	121 (1)	961 (1)
1986	closed	0	0.00	124 (8)	1,077 (17)					0	0.00	397 (2)	2,888 (4)
1987	closed	0	0.00	149 (15)	1,435 (52)					0	0.00	460 (17)	4,081 (22)
1988	closed	0	0.00	165 (14)	1,250 (40)					0	0.00	449 (5)	3,300 (6)
1989	closed	0	0.00	124 (11)	950 (18)					0	0.00	299 (6)	2,053 (10)
1990	closed	0	0.00	75 (16)	609 (28)					0	0.00	164 (14)	1,256 (30)
1991	closed	0	0.00	127 (49)	1,012 (197)					0	0.00	232 (35)	1,520 (79)
1992	closed	0	0.00	244 (127)	1,967 (533)					0	0.00	425 (81)	2,905 (178)
1993	closed	0	0.00	107 (46)	946 (170)					0	0.00	286 (45)	2,027 (100)
1994	closed	0	0.00	115 (46)	1,013 (277)					0	0.00	331 (37)	2,798 (90)
1995	closed	0	0.00	82 (35)	672 (214)					0	0.00	222 (16)	1,950 (31)
1996	closed	0	0.00	111 (51)	935 (340)					0	0.00	362 (41)	2,938 (108)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1997	closed	9,098	0.25	212 (140)	1,237 (581)					25,119	0.25	306 (59)	2,407 (205)
1998	closed	92,790	0.11	355 (244)	2,565 (1,309)					355,949	0.22	380 (56)	3,060 (171)
1999	closed	147,541	0.09	487 (348)	4,870 (2,552)					384,751	0.22	491 (81)	4,261 (248)
2000	closed	97,097	0.08	541 (333)	6,866 (2,587)					1,201,625	0.23	423 (75)	4,104 (237)
2001	closed	74,229	0.10	419 (262)	5,371 (2,045)					2,389,241	0.19	403 (82)	4,192 (351)
2002	closed	74,976	0.09	367 (283)	5,116 (2,646)					2,680,205	0.22	415 (91)	3,966 (427)
2003	closed	35,885	0.09	410 (290)	5,378 (2,859)					1,778,042	0.20	466 (75)	4,157 (350)
2004	closed	67,103	0.09	425 (301)	6,289 (3,350)					1,035,622	0.19	431 (93)	4,208 (376)
2005	closed	70,343	0.09	361 (260)	5,349 (2,952)					1,500,300	0.18	357 (65)	3,733 (284)
2006	closed	135,886	0.11	331 (248)	4,464 (2,646)					939,923	0.16	549 (104)	4,955 (358)
2007	closed	74,557	0.11	334 (216)	4,500 (2,587)					1,349,659	0.16	586 (106)	5,396 (473)
2008	closed	310,138	0.11	286 (188)	3,336 (1,755)					2,806,530	0.21	621 (82)	4,942 (399)
2009	closed	246,030	0.12	270 (150)	2,996 (1,416)					1,931,694	0.17	614 (86)	5,033 (398)
2010	closed	161,189	0.15	251 (157)	2,744 (1,282)					2,462,830	0.19	666 (77)	4,540 (320)
2011	closed	242,995	0.12	331 (204)	4,104 (1,960)					2,119,875	0.17	706 (92)	5,317 (373)
2012	closed	149,796	0.12	337 (211)	4,501 (1,777)					2,830,261	0.16	772 (103)	5,832 (482)
2013	closed	287,443	0.21	154 (87)	1,442 (538)					1,288,459	0.30	568 (118)	4,094 (484)
2014	closed	267,981	0.17	233 (113)	2,666 (802)					3,113,009	0.22	637 (151)	4,768 (630)
2015	closed	177,816	0.15	266 (135)	2,688 (663)					2,532,935	0.19	713 (149)	5,123 (460)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2016	closed	257,929	0.19	278 (122)	2,209 (700)					3,972,558	0.17	802 (204)	6,000 (708)
2017	closed	230,885	0.20	251 (111)	2,135 (677)					4,321,707	0.17	653 (179)	5,258 (869)
2018	closed	197,631	0.15	262 (124)	2,313 (766)					2,289,737	0.19	624 (147)	4,855 (600)
2019	closed	287,351	0.25	258 (135)	2,268 (748)					2,448,587	0.17	635 (156)	5,082 (768)
2020	closed	177,230	0.22	289 (126)	2,599 (773)					1,741,196	0.14	673 (171)	5,539 (779)
2021	closed	432,119	0.16	307 (162)	3,587 (1,543)					1,541,024	0.17	642 (125)	4,507 (644)
2022	closed	203,626	0.27	289 (158)	2,984 (1,310)					2,809,909	0.15	619 (145)	3,939 (637)
2023	closed	189,454	0.13	309 (179)	4,635 (2,420)					1,325,786	0.16	652 (138)	3,954 (524)
1981	open	488	0.71	36 (2)	231 (2)	305	0.71	36 (2)	231 (2)	179,403	0.73	102 (3)	749 (5)
1982	open	7,736	1.00	44 (2)	356 (2)	4,839	1.00	44 (2)	356 (2)	13,169	0.66	216 (4)	1,731 (4)
1983	open	0	0.00	47 (0)	468 (0)	0	0.00	47 (0)	468 (0)	4,470	1.00	63 (1)	571 (1)
1984	open	3,784	1.00	43 (1)	588 (1)	2,367	1.00	43 (1)	588 (1)	0	0.00	82 (0)	750 (0)
1985	open	2,285	1.00	33 (1)	356 (2)	1,429	1.00	33 (1)	356 (2)	925	1.00	121 (1)	961 (1)
1986	open	7,325	0.63	124 (8)	1,077 (17)					13,528	0.85	397 (2)	2,888 (4)
1987	open	42,598	0.40	149 (15)	1,435 (52)					113,799	0.37	460 (17)	4,081 (22)
1988	open	64,906	0.86	165 (14)	1,250 (40)					9,133	0.47	449 (5)	3,300 (6)
1989	open	35,092	0.45	124 (11)	950 (18)					323,028	0.59	299 (6)	2,053 (10)
1990	open	80,687	0.40	75 (16)	609 (28)					772,205	0.59	164 (14)	1,256 (30)
1991	open	196,019	0.29	127 (49)	1,012 (197)					1,587,532	0.29	232 (35)	1,520 (79)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1992	open	317,612	0.20	244 (127)	1,967 (533)					1,315,577	0.17	425 (81)	2,905 (178)
1993	open	260,033	0.45	107 (46)	946 (170)					1,657,182	0.23	286 (45)	2,027 (100)
1994	open	273,364	0.24	115 (46)	1,013 (277)					940,422	0.24	331 (37)	2,798 (90)
1995	open	401,693	0.43	82 (35)	672 (214)					226,084	0.32	222 (16)	1,950 (31)
1996	open	486,469	0.29	111 (51)	935 (340)					1,014,854	0.26	362 (41)	2,938 (108)
1997	open	839,173	0.25	212 (140)	1,237 (581)					2,242,913	0.25	306 (59)	2,407 (205)
1998	open	584,163	0.11	355 (244)	2,565 (1,309)					756,893	0.22	380 (56)	3,060 (171)
1999	open	710,911	0.09	487 (348)	4,870 (2,552)					2,299,239	0.22	491 (81)	4,261 (248)
2000	open	407,647	0.08	541 (333)	6,866 (2,587)					1,360,721	0.23	423 (75)	4,104 (237)
2001	open	497,309	0.10	419 (262)	5,371 (2,045)					1,983,516	0.19	403 (82)	4,192 (351)
2002	open	480,149	0.09	367 (283)	5,116 (2,646)					3,745,662	0.22	415 (91)	3,966 (427)
2003	open	537,467	0.09	410 (290)	5,378 (2,859)					2,571,116	0.20	466 (75)	4,157 (350)
2004	open	546,528	0.09	425 (301)	6,289 (3,350)					3,469,432	0.19	431 (93)	4,208 (376)
2005	open	501,609	0.09	361 (260)	5,349 (2,952)					2,527,755	0.18	357 (65)	3,733 (284)
2006	open	667,315	0.11	331 (248)	4,464 (2,646)					3,233,186	0.16	549 (104)	4,955 (358)
2007	open	610,537	0.11	334 (216)	4,500 (2,587)					4,346,317	0.16	586 (106)	5,396 (473)
2008	open	176,351	0.11	286 (188)	3,336 (1,755)					1,549,602	0.21	621 (82)	4,942 (399)
2009	open	229,826	0.12	270 (150)	2,996 (1,416)					1,904,934	0.17	614 (86)	5,033 (398)
2010	open	65,464	0.15	251 (157)	2,744 (1,282)					1,963,080	0.19	666 (77)	4,540 (320)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2011	open	132,950	0.12	331 (204)	4,104 (1,960)					1,609,640	0.17	706 (92)	5,317 (373)
2012	open	108,662	0.12	337 (211)	4,501 (1,777)					1,141,050	0.16	772 (103)	5,832 (482)
2013	open	115,507	0.21	154 (87)	1,442 (538)					3,582,930	0.30	568 (118)	4,094 (484)
2014	open	13,566	0.17	233 (113)	2,666 (802)					751,985	0.22	637 (151)	4,768 (630)
2015	open	80,594	0.15	266 (135)	2,688 (663)					624,828	0.19	713 (149)	5,123 (460)
2016	open	158,880	0.19	278 (122)	2,209 (700)					1,510,037	0.17	802 (204)	6,000 (708)
2017	open	307,057	0.20	251 (111)	2,135 (677)					3,944,927	0.17	653 (179)	5,258 (869)
2018	open	224,399	0.15	262 (124)	2,313 (766)					2,735,708	0.19	624 (147)	4,855 (600)
2019	open	209,806	0.25	258 (135)	2,268 (748)					3,316,097	0.17	635 (156)	5,082 (768)
2020	open	170,302	0.22	289 (126)	2,599 (773)					2,162,309	0.14	673 (171)	5,539 (779)
2021	open	187,979	0.16	307 (162)	3,587 (1,543)					2,224,826	0.17	642 (125)	4,507 (644)
2022	open	370,369	0.27	289 (158)	2,984 (1,310)					3,053,693	0.15	619 (145)	3,939 (637)
2023	open	257,568	0.13	309 (179)	4,635 (2,420)					2,036,081	0.16	652 (138)	3,954 (524)

Table 4.3. Red Snapper 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 **East** domain (western Florida through the Florida Keys). 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 Red Snapper.

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1981	closed	0	0.00	38 (0)	399 (0)	0	0.00	29 (0)	358 (0)	0	0.00	92 (2)	813 (2)
1982	closed	0	0.00	38 (1)	246 (1)	0	0.00	26 (1)	224 (1)	0	0.00	186 (0)	1,566 (0)
1983	closed	0	0.00	64 (0)	849 (0)	0	0.00	38 (0)	849 (0)	0	0.00	87 (0)	825 (0)
1984	closed	0	0.00	79 (1)	947 (1)	0	0.00	38 (1)	882 (1)	0	0.00	70 (2)	790 (2)
1985	closed	0	0.00	62 (1)	865 (1)	0	0.00	41 (1)	839 (1)	0	0.00	67 (2)	650 (3)
1986	closed	0	0.00	128 (7)	716 (13)					0	0.00	344 (3)	1,837 (3)
1987	closed	0	0.00	99 (1)	470 (2)					0	0.00	539 (2)	3,242 (2)
1988	closed	0	0.00	95 (0)	464 (0)					0	0.00	495 (7)	3,811 (9)
1989	closed	0	0.00	59 (0)	336 (0)					0	0.00	306 (2)	2,734 (2)
1990	closed	0	0.00	49 (0)	299 (0)					0	0.00	320 (1)	2,913 (1)
1991	closed	0	0.00	66 (0)	342 (0)					0	0.00	337 (8)	3,037 (13)
1992	closed	0	0.00	104 (3)	644 (4)					0	0.00	624 (12)	7,860 (19)
1993	closed	0	0.00	100 (0)	605 (0)					0	0.00	548 (7)	6,468 (9)
1994	closed	0	0.00	88 (1)	600 (1)					0	0.00	500 (4)	7,313 (11)
1995	closed	0	0.00	111 (0)	769 (0)					0	0.00	463 (3)	6,724 (4)
1996	closed	0	0.00	114 (0)	725 (0)					0	0.00	613 (7)	8,257 (11)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1997	closed	0	0.00	244 (1)	1,549 (2)					0	0.00	595 (1)	8,589 (1)
1998	closed	310	0.53	389 (5)	3,009 (9)					52,945	0.59	633 (5)	9,766 (10)
1999	closed	0	0.00	550 (3)	5,114 (5)					23,419	0.46	872 (9)	12,083 (17)
2000	closed	89	0.74	562 (2)	5,739 (3)					1,556	0.69	672 (4)	8,831 (6)
2001	closed	2,682	0.73	433 (4)	5,373 (8)					0	0.00	652 (1)	10,487 (1)
2002	closed	0	0.00	488 (0)	5,334 (0)					0	0.00	730 (1)	11,925 (3)
2003	closed	2,578	0.90	548 (4)	5,989 (8)					2,920	0.72	807 (2)	11,029 (2)
2004	closed	693	0.53	446 (5)	4,951 (9)					0	0.00	536 (6)	9,208 (15)
2005	closed	1,044	0.60	362 (5)	4,100 (17)					36,258	0.48	513 (10)	8,529 (26)
2006	closed	3,396	0.53	221 (9)	2,492 (25)					24,378	0.54	519 (6)	8,433 (9)
2007	closed	2,001	0.63	290 (4)	2,695 (8)					0	0.00	522 (7)	8,394 (15)
2008	closed	11,884	0.76	364 (6)	3,437 (16)					33,252	0.62	634 (4)	9,028 (7)
2009	closed	16,676	0.65	274 (7)	2,483 (13)					62,761	0.67	650 (6)	9,948 (14)
2010	closed	4,049	0.77	309 (5)	3,191 (12)					105,442	0.56	625 (8)	9,617 (13)
2011	closed	1,948	0.95	332 (2)	3,209 (6)					1,485,977	0.98	636 (7)	8,942 (12)
2012	closed	0	0.00	420 (4)	3,704 (6)					0	0.00	697 (1)	9,297 (2)
2013	closed	256	0.92	245 (5)	2,004 (11)					8,516	0.49	679 (5)	8,229 (6)
2014	closed	1,585	0.54	393 (6)	3,311 (22)					36,284	0.59	881 (7)	11,532 (17)
2015	closed	6,091	0.66	416 (5)	3,015 (25)					16,878	0.63	878 (7)	10,938 (13)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2016	closed	31,528	0.43	420 (36)	3,036 (102)					676,125	0.66	825 (20)	9,890 (45)
2017	closed	130,808	0.71	339 (30)	2,754 (139)					141,688	0.34	640 (25)	8,174 (75)
2018	closed	36,845	0.37	336 (21)	2,758 (97)					426,915	0.40	600 (16)	6,431 (44)
2019	closed	6,495	0.38	316 (22)	2,220 (61)					244,439	0.36	609 (20)	6,339 (60)
2020	closed	4,300	0.38	342 (12)	2,228 (25)					184,041	0.38	715 (18)	7,253 (43)
2021	closed	30,206	0.43	432 (22)	3,446 (96)					36,258	0.55	624 (8)	5,182 (19)
2022	closed	12,304	0.35	322 (18)	2,119 (60)					102,080	0.65	589 (9)	4,199 (26)
2023	closed	129,628	0.72	444 (30)	3,541 (150)					48,348	0.34	651 (18)	5,458 (45)
1981	open	0	0.00	38 (0)	399 (0)	0	0.00	29 (0)	358 (0)	76,357	0.71	92 (2)	813 (2)
1982	open	396	1.00	38 (1)	246 (1)	247	1.00	26 (1)	224 (1)	0	0.00	186 (0)	1,566 (0)
1983	open	0	0.00	64 (0)	849 (0)	0	0.00	38 (0)	849 (0)	0	0.00	87 (0)	825 (0)
1984	open	3,594	1.00	79 (1)	947 (1)	2,248	1.00	38 (1)	882 (1)	82,405	0.79	70 (2)	790 (2)
1985	open	1,007	1.00	62 (1)	865 (1)	630	1.00	41 (1)	839 (1)	41,324	0.81	67 (2)	650 (3)
1986	open	17,128	0.45	128 (7)	716 (13)					11,688	0.71	344 (3)	1,837 (3)
1987	open	1,642	1.00	99 (1)	470 (2)					3,103	0.71	539 (2)	3,242 (2)
1988	open	0	0.00	95 (0)	464 (0)					35,687	0.48	495 (7)	3,811 (9)
1989	open	0	0.00	59 (0)	336 (0)					7,022	0.71	306 (2)	2,734 (2)
1990	open	0	0.00	49 (0)	299 (0)					21,540	1.00	320 (1)	2,913 (1)
1991	open	0	0.00	66 (0)	342 (0)					78,277	0.42	337 (8)	3,037 (13)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1992	open	1,018	0.68	104 (3)	644 (4)					80,073	0.44	624 (12)	7,860 (19)
1993	open	0	0.00	100 (0)	605 (0)					29,726	0.47	548 (7)	6,468 (9)
1994	open	57	1.00	88 (1)	600 (1)					38,864	0.59	500 (4)	7,313 (11)
1995	open	0	0.00	111 (0)	769 (0)					13,967	0.78	463 (3)	6,724 (4)
1996	open	0	0.00	114 (0)	725 (0)					35,811	0.49	613 (7)	8,257 (11)
1997	open	543	1.00	244 (1)	1,549 (2)					25,990	1.00	595 (1)	8,589 (1)
1998	open	2,765	0.53	389 (5)	3,009 (9)					12,660	0.59	633 (5)	9,766 (10)
1999	open	1,918	0.78	550 (3)	5,114 (5)					26,440	0.46	872 (9)	12,083 (17)
2000	open	170	0.74	562 (2)	5,739 (3)					66,169	0.69	672 (4)	8,831 (6)
2001	open	76	0.73	433 (4)	5,373 (8)					5,729	1.00	652 (1)	10,487 (1)
2002	open	0	0.00	488 (0)	5,334 (0)					6,874	1.00	730 (1)	11,925 (3)
2003	open	300	0.90	548 (4)	5,989 (8)					2,069	0.72	807 (2)	11,029 (2)
2004	open	0	0.00	446 (5)	4,951 (9)					92,594	0.75	536 (6)	9,208 (15)
2005	open	522	0.60	362 (5)	4,100 (17)					92,921	0.48	513 (10)	8,529 (26)
2006	open	14,282	0.53	221 (9)	2,492 (25)					30,938	0.54	519 (6)	8,433 (9)
2007	open	230	0.63	290 (4)	2,695 (8)					43,270	0.52	522 (7)	8,394 (15)
2008	open	4,222	0.76	364 (6)	3,437 (16)					7,229	0.62	634 (4)	9,028 (7)
2009	open	980	0.65	274 (7)	2,483 (13)					40,073	0.67	650 (6)	9,948 (14)
2010	open	0	0.00	309 (5)	3,191 (12)					24,026	0.56	625 (8)	9,617 (13)

Year	FED_CLOSED	Cbt				Hbt				Priv			
		B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2011	open	0	0.00	332 (2)	3,209 (6)					14,601	0.98	636 (7)	8,942 (12)
2012	open	1,344	0.89	420 (4)	3,704 (6)					14,288	1.00	697 (1)	9,297 (2)
2013	open	10,940	0.92	245 (5)	2,004 (11)					0	0.00	679 (5)	8,229 (6)
2014	open	7,494	0.54	393 (6)	3,311 (22)					13,102	0.59	881 (7)	11,532 (17)
2015	open	9,051	0.66	416 (5)	3,015 (25)					7,123	0.63	878 (7)	10,938 (13)
2016	open	10,754	0.43	420 (36)	3,036 (102)					32,036	0.66	825 (20)	9,890 (45)
2017	open	29,195	0.71	339 (30)	2,754 (139)					119,038	0.34	640 (25)	8,174 (75)
2018	open	22,182	0.37	336 (21)	2,758 (97)					220,124	0.40	600 (16)	6,431 (44)
2019	open	18,665	0.38	316 (22)	2,220 (61)					150,713	0.36	609 (20)	6,339 (60)
2020	open	9,496	0.38	342 (12)	2,228 (25)					55,887	0.38	715 (18)	7,253 (43)
2021	open	36,529	0.43	432 (22)	3,446 (96)					212,682	0.55	624 (8)	5,182 (19)
2022	open	31,386	0.35	322 (18)	2,119 (60)					196,067	0.65	589 (9)	4,199 (26)
2023	open	37,390	0.72	444 (30)	3,541 (150)					283,178	0.34	651 (18)	5,458 (45)

Table 5.1. Red Snapper 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 **West** domain (Texas through Louisiana). 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 Red Snapper.

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
1981	closed	0	0.00	60 (10)	487 (35)	0	0.00	60 (3)	487 (6)
1982	closed	0	0.00	113 (22)	925 (52)	0	0.00	113 (2)	925 (4)
1983	closed	0	0.00	654 (105)	6,367 (284)	0	0.00	654 (3)	6,367 (3)
1984	closed	0	0.00	665 (92)	4,627 (212)	0	0.00	665 (0)	4,627 (0)
1985	closed	0	0.00	746 (75)	6,471 (153)	0	0.00	746 (2)	6,471 (3)
1986	closed	0	0.00	1,150 (116)	10,772 (169)	0	0.00	1,150 (12)	10,772 (20)
1987	closed	0	0.00	941 (90)	9,037 (134)	0	0.00	941 (3)	9,037 (6)
1988	closed	0	0.00	1,008 (79)	8,935 (125)	0	0.00	1,008 (7)	8,935 (16)
1989	closed	0	0.00	907 (67)	7,177 (98)	0	0.00	907 (5)	7,177 (16)
1990	closed	0	0.00	791 (64)	5,237 (125)	0	0.00	791 (11)	5,237 (48)
1991	closed	0	0.00	840 (90)	7,049 (164)	0	0.00	840 (26)	7,049 (180)
1992	closed	0	0.00	1,110 (128)	11,082 (250)	0	0.00	1,110 (41)	11,082 (235)
1993	closed	0	0.00	997 (110)	9,717 (227)	0	0.00	997 (27)	9,717 (110)
1994	closed	0	0.00	1,038 (127)	10,874 (293)	0	0.00	1,038 (26)	10,874 (107)
1995	closed	0	0.00	1,008 (126)	10,362 (456)	0	0.00	1,008 (22)	10,362 (110)
1996	closed	0	0.00	1,070 (120)	10,428 (380)	0	0.00	1,070 (23)	10,428 (66)
1997	closed	16,941	0.19	1,056 (136)	11,148 (372)	0	0.00	1,056 (22)	11,148 (51)
1998	closed	443	0.22	1,093 (110)	11,707 (331)	56,614	0.51	1,093 (22)	11,707 (65)
1999	closed	90,116	0.22	1,350 (120)	14,083 (231)	54,670	0.40	1,350 (29)	14,083 (93)
2000	closed	3,880	0.22	1,385 (119)	13,449 (292)	247,483	0.40	1,385 (28)	13,449 (65)
2001	closed	63,628	0.20	1,248 (105)	12,209 (245)	65,750	0.49	1,248 (15)	12,209 (32)
2002	closed	44,569	0.18	1,239 (120)	12,258 (281)	615,343	0.73	1,239 (27)	12,258 (108)
2003	closed	27,147	0.19	1,261 (120)	12,792 (283)	624,969	0.67	1,261 (29)	12,792 (157)
2004	closed	46,200	0.19	1,353 (123)	13,530 (274)	2,477,845	0.86	1,353 (37)	13,530 (192)
2005	closed	122,798	0.16	1,250 (128)	12,130 (340)	1,018,665	0.57	1,250 (33)	12,130 (176)
2006	closed	91,530	0.19	1,390 (157)	14,081 (444)	400,282	0.41	1,390 (54)	14,081 (339)
2007	closed	80,373	0.20	1,358 (149)	13,418 (331)	134,286	0.35	1,358 (47)	13,418 (283)
2008	closed	171,663	0.25	1,333 (101)	13,734 (236)	819,343	0.49	1,333 (26)	13,734 (99)
2009	closed	105,951	0.20	1,334 (109)	13,728 (262)	627,665	0.44	1,334 (20)	13,728 (76)
2010	closed	76,516	0.22	1,248 (64)	12,194 (136)	188,833	1.05	1,248 (3)	12,194 (7)

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
2011	closed	148,275	0.21	1,390 (81)	13,861 (203)	838,685	0.59	1,390 (10)	13,861 (34)
2012	closed	186,380	0.19	1,416 (91)	13,827 (216)	87,618	0.48	1,416 (23)	13,827 (85)
2013	closed	296,044	0.20	1,302 (111)	13,007 (279)	1,156,684	0.47	1,302 (30)	13,007 (126)
2014	closed	447,444	0.18	2,234 (183)	19,149 (452)	493,504	0.33	2,234 (0)	19,149 (0)
2015	closed	515,421	0.15	2,335 (265)	19,495 (814)	605,958	0.32	2,335 (0)	19,495 (0)
2016	closed	336,855	0.16	2,454 (247)	19,874 (655)	393,305	0.32	2,454 (95)	19,874 (196)
2017	closed	204,465	0.15	2,427 (244)	20,290 (805)	284,176	0.27	2,427 (107)	20,290 (242)
2018	closed	130,434	0.18	2,430 (215)	19,406 (963)	279,701	0.28	2,430 (111)	19,406 (339)
2019	closed	187,816	0.20	2,466 (256)	19,964 (1,068)	339,299	0.24	2,466 (155)	19,964 (478)
2020	closed	151,288	0.19	2,390 (215)	21,403 (900)	452,879	0.27	2,390 (124)	21,403 (367)
2021	closed	60,678	0.18	2,429 (285)	18,277 (1,057)	249,359	0.30	2,429 (151)	18,277 (384)
2022	closed	54,347	0.18	2,426 (266)	16,448 (898)	101,549	0.31	2,426 (98)	16,448 (229)
2023	closed	130,772	0.16	2,568 (323)	18,448 (1,201)	149,006	0.29	2,568 (165)	18,448 (435)
1981	open	3,320,471	0.58	60 (10)	487 (35)	30,293	0.65	60 (3)	487 (6)
1982	open	2,161,603	0.36	113 (22)	925 (52)	20,926	0.72	113 (2)	925 (4)
1983	open	4,011,844	0.29	654 (105)	6,367 (284)	1,685	0.65	654 (3)	6,367 (3)
1984	open	1,200,790	0.18	665 (92)	4,627 (212)	0	0.00	665 (0)	4,627 (0)
1985	open	1,938,827	0.60	746 (75)	6,471 (153)	438,402	0.81	746 (2)	6,471 (3)
1986	open	1,807,687	0.69	1,150 (116)	10,772 (169)	2,521	0.41	1,150 (12)	10,772 (20)
1987	open	585,158	0.30	941 (90)	9,037 (134)	121,840	0.97	941 (3)	9,037 (6)
1988	open	820,772	0.32	1,008 (79)	8,935 (125)	530,486	0.55	1,008 (7)	8,935 (16)
1989	open	594,759	0.25	907 (67)	7,177 (98)	375,726	0.54	907 (5)	7,177 (16)
1990	open	424,275	0.29	791 (64)	5,237 (125)	486,332	0.62	791 (11)	5,237 (48)
1991	open	586,131	0.23	840 (90)	7,049 (164)	551,151	0.73	840 (26)	7,049 (180)
1992	open	748,474	0.15	1,110 (128)	11,082 (250)	562,550	0.28	1,110 (41)	11,082 (235)
1993	open	1,125,200	0.22	997 (110)	9,717 (227)	596,035	0.28	997 (27)	9,717 (110)
1994	open	1,262,668	0.19	1,038 (127)	10,874 (293)	1,320,972	0.49	1,038 (26)	10,874 (107)
1995	open	1,602,114	0.22	1,008 (126)	10,362 (456)	2,031,674	0.46	1,008 (22)	10,362 (110)
1996	open	1,123,754	0.18	1,070 (120)	10,428 (380)	503,880	0.41	1,070 (23)	10,428 (66)
1997	open	1,099,186	0.16	1,056 (136)	11,148 (372)	549,846	0.45	1,056 (22)	11,148 (51)
1998	open	1,117,962	0.23	1,093 (110)	11,707 (331)	783,076	0.50	1,093 (22)	11,707 (65)
1999	open	623,761	0.17	1,350 (120)	14,083 (231)	1,995,598	0.40	1,350 (29)	14,083 (93)
2000	open	672,897	0.19	1,385 (119)	13,449 (292)	488,469	0.40	1,385 (28)	13,449 (65)
2001	open	423,513	0.18	1,248 (105)	12,209 (245)	463,956	0.48	1,248 (15)	12,209 (32)
2002	open	438,142	0.16	1,239 (120)	12,258 (281)	209,987	0.65	1,239 (27)	12,258 (108)
2003	open	411,404	0.16	1,261 (120)	12,792 (283)	1,186,635	0.64	1,261 (29)	12,792 (157)

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
2004	open	396,116	0.16	1,353 (123)	13,530 (274)	887,613	0.71	1,353 (37)	13,530 (192)
2005	open	509,252	0.16	1,250 (128)	12,130 (340)	1,202,750	0.52	1,250 (33)	12,130 (176)
2006	open	700,041	0.15	1,390 (157)	14,081 (444)	2,042,436	0.38	1,390 (54)	14,081 (339)
2007	open	521,720	0.14	1,358 (149)	13,418 (331)	1,061,545	0.33	1,358 (47)	13,418 (283)
2008	open	271,848	0.21	1,333 (101)	13,734 (236)	856,472	0.48	1,333 (26)	13,734 (99)
2009	open	342,431	0.18	1,334 (109)	13,728 (262)	530,883	0.44	1,334 (20)	13,728 (76)
2010	open	187,427	0.21	1,248 (64)	12,194 (136)	53,842	1.06	1,248 (3)	12,194 (7)
2011	open	242,369	0.20	1,390 (81)	13,861 (203)	503,935	0.59	1,390 (10)	13,861 (34)
2012	open	290,103	0.21	1,416 (91)	13,827 (216)	621,518	0.48	1,416 (23)	13,827 (85)
2013	open	302,505	0.18	1,302 (111)	13,007 (279)	707,267	0.46	1,302 (30)	13,007 (126)
2014	open	150,835	0.17	2,234 (183)	19,149 (452)	118,081	0.32	2,234 (0)	19,149 (0)
2015	open	227,092	0.14	2,335 (265)	19,495 (814)	149,648	0.32	2,335 (0)	19,495 (0)
2016	open	152,958	0.16	2,454 (247)	19,874 (655)	148,444	0.32	2,454 (95)	19,874 (196)
2017	open	396,551	0.15	2,427 (244)	20,290 (805)	565,500	0.27	2,427 (107)	20,290 (242)
2018	open	529,690	0.15	2,430 (215)	19,406 (963)	592,876	0.28	2,430 (111)	19,406 (339)
2019	open	782,637	0.16	2,466 (256)	19,964 (1,068)	1,350,396	0.24	2,466 (155)	19,964 (478)
2020	open	442,915	0.15	2,390 (215)	21,403 (900)	773,903	0.27	2,390 (124)	21,403 (367)
2021	open	517,867	0.15	2,429 (285)	18,277 (1,057)	773,341	0.30	2,429 (151)	18,277 (384)
2022	open	411,425	0.15	2,426 (266)	16,448 (898)	484,518	0.31	2,426 (98)	16,448 (229)
2023	open	618,381	0.14	2,568 (323)	18,448 (1,201)	914,699	0.29	2,568 (165)	18,448 (435)

Table 5.2. Red Snapper 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 **Central** domain (Mississippi through the Florida panhandle). 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 Red Snapper.

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
1981	closed	0	0.00	138 (24)	980 (49)	0	0.00	138 (5)	980 (7)
1982	closed	0	0.00	260 (41)	2,087 (126)	0	0.00	260 (6)	2,087 (6)
1983	closed	0	0.00	110 (34)	1,039 (178)	0	0.00	110 (1)	1,039 (1)
1984	closed	0	0.00	125 (24)	1,338 (73)	0	0.00	125 (1)	1,338 (1)
1985	closed	0	0.00	154 (27)	1,317 (111)	0	0.00	154 (2)	1,317 (3)
1986	closed	0	0.00	521 (71)	3,965 (257)	0	0.00	521 (10)	3,965 (21)
1987	closed	0	0.00	609 (129)	5,516 (214)	0	0.00	609 (32)	5,516 (74)
1988	closed	0	0.00	614 (89)	4,550 (158)	0	0.00	614 (19)	4,550 (46)
1989	closed	0	0.00	423 (66)	3,003 (119)	0	0.00	423 (17)	3,003 (28)
1990	closed	0	0.00	239 (53)	1,865 (93)	0	0.00	239 (30)	1,865 (58)
1991	closed	0	0.00	359 (110)	2,532 (198)	0	0.00	359 (84)	2,532 (276)
1992	closed	0	0.00	669 (248)	4,872 (395)	0	0.00	669 (208)	4,872 (711)
1993	closed	0	0.00	393 (137)	2,973 (266)	0	0.00	393 (91)	2,973 (270)
1994	closed	0	0.00	446 (114)	3,811 (232)	0	0.00	446 (83)	3,811 (367)
1995	closed	0	0.00	304 (75)	2,622 (159)	0	0.00	304 (51)	2,622 (245)
1996	closed	0	0.00	473 (103)	3,873 (185)	0	0.00	473 (92)	3,873 (448)
1997	closed	10,994	0.12	518 (204)	3,644 (363)	34,217	0.19	518 (199)	3,644 (786)
1998	closed	100,361	0.09	735 (269)	5,625 (466)	448,739	0.14	735 (300)	5,625 (1,480)
1999	closed	77,840	0.14	978 (394)	9,131 (849)	532,292	0.15	978 (429)	9,131 (2,800)
2000	closed	139,237	0.14	964 (333)	10,965 (887)	1,298,722	0.19	964 (408)	10,965 (2,824)
2001	closed	258,867	0.17	822 (275)	9,563 (680)	2,463,470	0.16	822 (344)	9,563 (2,396)
2002	closed	25,563	0.15	782 (272)	9,082 (719)	2,755,181	0.19	782 (374)	9,082 (3,073)
2003	closed	24,712	0.13	876 (297)	9,535 (775)	1,813,927	0.16	876 (365)	9,535 (3,209)
2004	closed	16,875	0.19	856 (318)	10,497 (947)	1,102,726	0.16	856 (394)	10,497 (3,726)
2005	closed	90,816	0.16	718 (267)	9,082 (765)	1,570,643	0.14	718 (325)	9,082 (3,236)
2006	closed	63,399	0.13	880 (271)	9,419 (631)	1,075,810	0.13	880 (352)	9,419 (3,004)
2007	closed	192,714	0.16	920 (249)	9,896 (700)	1,424,216	0.13	920 (322)	9,896 (3,060)
2008	closed	414,164	0.12	907 (206)	8,278 (482)	3,116,668	0.18	907 (270)	8,278 (2,154)
2009	closed	14,571	0.15	884 (110)	8,029 (330)	2,177,724	0.14	884 (236)	8,029 (1,814)
2010	closed	34	0.27	917 (90)	7,284 (290)	2,624,019	0.17	917 (234)	7,284 (1,602)

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
2011	closed	51,871	0.15	1,037 (83)	9,421 (303)	2,362,871	0.15	1,037 (296)	9,421 (2,333)
2012	closed	13,283	0.17	1,109 (97)	10,333 (348)	2,980,057	0.14	1,109 (314)	10,333 (2,259)
2013	closed	88,493	0.27	722 (82)	5,536 (351)	1,575,903	0.27	722 (205)	5,536 (1,022)
2014	closed	376,346	0.19	870 (87)	7,434 (346)	3,380,991	0.20	870 (264)	7,434 (1,432)
2015	closed	457,519	0.18	979 (126)	7,811 (497)	2,710,751	0.17	979 (284)	7,811 (1,123)
2016	closed	793,134	0.11	1,080 (191)	8,209 (660)	4,230,486	0.15	1,080 (326)	8,209 (1,408)
2017	closed	603,513	0.16	904 (168)	7,393 (694)	4,552,592	0.16	904 (290)	7,393 (1,546)
2018	closed	12,843	0.19	886 (132)	7,168 (555)	2,487,368	0.16	886 (271)	7,168 (1,366)
2019	closed	13,394	0.16	893 (156)	7,350 (678)	2,735,939	0.15	893 (291)	7,350 (1,516)
2020	closed	66,373	0.15	962 (146)	8,138 (630)	1,918,425	0.13	962 (297)	8,138 (1,552)
2021	closed	38,857	0.19	949 (154)	8,094 (691)	1,973,143	0.14	949 (287)	8,094 (2,187)
2022	closed	36,068	0.13	908 (173)	6,923 (577)	3,013,535	0.13	908 (303)	6,923 (1,947)
2023	closed	38,223	0.14	961 (176)	8,589 (808)	1,515,240	0.14	961 (317)	8,589 (2,944)
1981	open	1,926,000	0.42	138 (24)	980 (49)	180,197	0.73	138 (5)	980 (7)
1982	open	868,286	0.32	260 (41)	2,087 (126)	25,744	0.59	260 (6)	2,087 (6)
1983	open	1,987,210	0.27	110 (34)	1,039 (178)	4,470	1.00	110 (1)	1,039 (1)
1984	open	616,020	0.31	125 (24)	1,338 (73)	6,151	1.00	125 (1)	1,338 (1)
1985	open	1,000,375	0.36	154 (27)	1,317 (111)	4,639	0.83	154 (2)	1,317 (3)
1986	open	768,963	0.26	521 (71)	3,965 (257)	20,853	0.59	521 (10)	3,965 (21)
1987	open	948,636	0.17	609 (129)	5,516 (214)	156,397	0.28	609 (32)	5,516 (74)
1988	open	724,205	0.28	614 (89)	4,550 (158)	74,039	0.75	614 (19)	4,550 (46)
1989	open	792,265	0.56	423 (66)	3,003 (119)	358,120	0.53	423 (17)	3,003 (28)
1990	open	492,251	0.27	239 (53)	1,865 (93)	852,892	0.53	239 (30)	1,865 (58)
1991	open	996,304	0.18	359 (110)	2,532 (198)	1,783,552	0.25	359 (84)	2,532 (276)
1992	open	1,774,791	0.14	669 (248)	4,872 (395)	1,633,189	0.14	669 (208)	4,872 (711)
1993	open	2,270,763	0.17	393 (137)	2,973 (266)	1,917,215	0.19	393 (91)	2,973 (270)
1994	open	1,375,433	0.17	446 (114)	3,811 (232)	1,213,786	0.18	446 (83)	3,811 (367)
1995	open	943,864	0.18	304 (75)	2,622 (159)	627,777	0.28	304 (51)	2,622 (245)
1996	open	929,829	0.16	473 (103)	3,873 (185)	1,501,324	0.19	473 (92)	3,873 (448)
1997	open	1,350,583	0.12	518 (204)	3,644 (363)	3,082,087	0.19	518 (199)	3,644 (786)
1998	open	1,334,560	0.09	735 (269)	5,625 (466)	1,341,056	0.14	735 (300)	5,625 (1,480)
1999	open	1,855,642	0.14	978 (394)	9,131 (849)	3,010,150	0.15	978 (429)	9,131 (2,800)
2000	open	1,101,662	0.14	964 (333)	10,965 (887)	1,768,367	0.19	964 (408)	10,965 (2,824)
2001	open	1,529,862	0.17	822 (275)	9,563 (680)	2,480,826	0.16	822 (344)	9,563 (2,396)
2002	open	2,402,544	0.15	782 (272)	9,082 (719)	4,225,810	0.19	782 (374)	9,082 (3,073)
2003	open	1,789,846	0.13	876 (297)	9,535 (775)	3,108,583	0.16	876 (365)	9,535 (3,209)

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
2004	open	2,148,148	0.19	856 (318)	10,497 (947)	4,015,960	0.16	856 (394)	10,497 (3,726)
2005	open	1,194,442	0.16	718 (267)	9,082 (765)	3,029,364	0.14	718 (325)	9,082 (3,236)
2006	open	1,310,429	0.13	880 (271)	9,419 (631)	3,900,501	0.13	880 (352)	9,419 (3,004)
2007	open	1,809,474	0.16	920 (249)	9,896 (700)	4,956,854	0.13	920 (322)	9,896 (3,060)
2008	open	749,346	0.12	907 (206)	8,278 (482)	1,725,953	0.18	907 (270)	8,278 (2,154)
2009	open	1,269,958	0.15	884 (110)	8,029 (330)	2,134,760	0.14	884 (236)	8,029 (1,814)
2010	open	1,101,427	0.27	917 (90)	7,284 (290)	2,028,544	0.17	917 (234)	7,284 (1,602)
2011	open	1,344,314	0.15	1,037 (83)	9,421 (303)	1,742,590	0.15	1,037 (296)	9,421 (2,333)
2012	open	1,297,409	0.17	1,109 (97)	10,333 (348)	1,249,713	0.14	1,109 (314)	10,333 (2,259)
2013	open	2,168,715	0.27	722 (82)	5,536 (351)	3,698,437	0.27	722 (205)	5,536 (1,022)
2014	open	551,997	0.19	870 (87)	7,434 (346)	765,551	0.20	870 (264)	7,434 (1,432)
2015	open	770,768	0.18	979 (126)	7,811 (497)	705,421	0.17	979 (284)	7,811 (1,123)
2016	open	705,846	0.11	1,080 (191)	8,209 (660)	1,668,917	0.15	1,080 (326)	8,209 (1,408)
2017	open	2,203,967	0.16	904 (168)	7,393 (694)	4,251,984	0.16	904 (290)	7,393 (1,546)
2018	open	1,967,454	0.19	886 (132)	7,168 (555)	2,960,107	0.16	886 (271)	7,168 (1,366)
2019	open	2,215,625	0.16	893 (156)	7,350 (678)	3,525,903	0.15	893 (291)	7,350 (1,516)
2020	open	1,708,076	0.15	962 (146)	8,138 (630)	2,332,612	0.13	962 (297)	8,138 (1,552)
2021	open	1,457,261	0.19	949 (154)	8,094 (691)	2,412,806	0.14	949 (287)	8,094 (2,187)
2022	open	1,693,568	0.13	908 (173)	6,923 (577)	3,424,062	0.13	908 (303)	6,923 (1,947)
2023	open	1,545,436	0.14	961 (176)	8,589 (808)	2,293,649	0.14	961 (317)	8,589 (2,944)

Table 5.3. Red Snapper 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 **East** domain (western Florida through the Florida Keys). 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 Red Snapper.

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
1981	closed	0	0.00	130 (7)	1,212 (13)	0	0.00	130 (2)	1,212 (2)
1982	closed	0	0.00	224 (3)	1,812 (3)	0	0.00	224 (1)	1,812 (1)
1983	closed	0	0.00	151 (14)	1,674 (66)	0	0.00	151 (0)	1,674 (0)
1984	closed	0	0.00	149 (11)	1,737 (30)	0	0.00	149 (3)	1,737 (3)
1985	closed	0	0.00	129 (8)	1,515 (22)	0	0.00	129 (3)	1,515 (4)
1986	closed	0	0.00	472 (22)	2,553 (43)	0	0.00	472 (10)	2,553 (16)
1987	closed	0	0.00	638 (9)	3,712 (12)	0	0.00	638 (3)	3,712 (4)
1988	closed	0	0.00	590 (10)	4,275 (15)	0	0.00	590 (7)	4,275 (9)
1989	closed	0	0.00	365 (4)	3,070 (5)	0	0.00	365 (2)	3,070 (2)
1990	closed	0	0.00	369 (4)	3,212 (4)	0	0.00	369 (1)	3,212 (1)
1991	closed	0	0.00	403 (4)	3,379 (4)	0	0.00	403 (8)	3,379 (13)
1992	closed	0	0.00	728 (6)	8,504 (7)	0	0.00	728 (15)	8,504 (23)
1993	closed	0	0.00	648 (0)	7,073 (0)	0	0.00	648 (7)	7,073 (9)
1994	closed	0	0.00	588 (1)	7,913 (1)	0	0.00	588 (5)	7,913 (12)
1995	closed	0	0.00	574 (1)	7,493 (1)	0	0.00	574 (3)	7,493 (4)
1996	closed	0	0.00	727 (5)	8,982 (7)	0	0.00	727 (7)	8,982 (11)
1997	closed	210	0.75	839 (4)	10,138 (6)	0	0.00	839 (2)	10,138 (3)
1998	closed	0	0.00	1,022 (4)	12,775 (11)	53,255	0.57	1,022 (10)	12,775 (19)
1999	closed	250	0.49	1,422 (12)	17,197 (13)	23,419	0.44	1,422 (12)	17,197 (22)
2000	closed	2,349	0.86	1,234 (4)	14,565 (4)	1,644	0.69	1,234 (6)	14,565 (9)
2001	closed	42	0.51	1,085 (8)	15,860 (8)	2,682	0.72	1,085 (5)	15,860 (9)
2002	closed	6,818	0.67	1,218 (7)	17,259 (7)	0	0.00	1,218 (1)	17,259 (3)
2003	closed	27	0.52	1,355 (12)	17,018 (12)	5,498	0.56	1,355 (6)	17,018 (10)
2004	closed	148	0.87	982 (8)	14,159 (9)	693	0.74	982 (11)	14,159 (24)
2005	closed	455	0.59	875 (17)	12,629 (23)	37,302	0.47	875 (15)	12,629 (43)
2006	closed	969	0.59	740 (9)	10,925 (10)	27,774	0.43	740 (15)	10,925 (34)
2007	closed	64	0.81	812 (6)	11,089 (10)	2,001	0.49	812 (11)	11,089 (23)
2008	closed	987	0.67	998 (11)	12,465 (11)	45,136	0.50	998 (10)	12,465 (23)
2009	closed	1,142	0.55	924 (8)	12,431 (9)	79,438	0.58	924 (13)	12,431 (27)
2010	closed	2,490	0.53	934 (6)	12,808 (8)	109,491	0.54	934 (13)	12,808 (25)

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
2011	closed	1,269	0.66	968 (3)	12,151 (5)	1,487,925	0.98	968 (9)	12,151 (18)
2012	closed	1,028	0.61	1,117 (5)	13,001 (5)	0	0.00	1,117 (5)	13,001 (8)
2013	closed	2,666	0.70	924 (5)	10,233 (6)	8,772	0.57	924 (10)	10,233 (17)
2014	closed	259	0.51	1,274 (7)	14,843 (13)	37,868	0.49	1,274 (13)	14,843 (39)
2015	closed	0	0.00	1,294 (5)	13,953 (7)	22,969	0.46	1,294 (12)	13,953 (38)
2016	closed	8,662	0.49	1,245 (15)	12,926 (24)	707,653	0.62	1,245 (56)	12,926 (147)
2017	closed	92	0.34	979 (23)	10,928 (43)	272,497	0.34	979 (55)	10,928 (214)
2018	closed	0	0.00	936 (15)	9,189 (28)	463,760	0.36	936 (37)	9,189 (141)
2019	closed	0	0.00	925 (24)	8,559 (42)	250,934	0.33	925 (42)	8,559 (121)
2020	closed	0	0.00	1,057 (11)	9,481 (16)	188,341	0.35	1,057 (30)	9,481 (68)
2021	closed	0	0.00	1,056 (17)	8,628 (46)	66,464	0.44	1,056 (30)	8,628 (115)
2022	closed	0	0.00	911 (22)	6,318 (31)	114,384	0.56	911 (27)	6,318 (86)
2023	closed	18,199	0.42	1,095 (33)	8,999 (58)	177,976	0.33	1,095 (48)	8,999 (195)
1981	open	603,403	0.60	130 (7)	1,212 (13)	76,357	0.71	130 (2)	1,212 (2)
1982	open	18,555	0.62	224 (3)	1,812 (3)	643	1.00	224 (1)	1,812 (1)
1983	open	641,422	0.91	151 (14)	1,674 (66)	0	0.00	151 (0)	1,674 (0)
1984	open	72,122	0.51	149 (11)	1,737 (30)	88,247	0.74	149 (3)	1,737 (3)
1985	open	175,109	0.65	129 (8)	1,515 (22)	42,961	0.78	129 (3)	1,515 (4)
1986	open	242,849	0.39	472 (22)	2,553 (43)	28,816	0.39	472 (10)	2,553 (16)
1987	open	109,554	0.51	638 (9)	3,712 (12)	4,745	0.58	638 (3)	3,712 (4)
1988	open	55,039	0.44	590 (10)	4,275 (15)	35,687	0.47	590 (7)	4,275 (9)
1989	open	153,860	0.64	365 (4)	3,070 (5)	7,022	0.67	365 (2)	3,070 (2)
1990	open	42,071	0.53	369 (4)	3,212 (4)	21,540	1.00	369 (1)	3,212 (1)
1991	open	17,291	0.61	403 (4)	3,379 (4)	78,277	0.41	403 (8)	3,379 (13)
1992	open	6,206	0.49	728 (6)	8,504 (7)	81,091	0.43	728 (15)	8,504 (23)
1993	open	0	0.00	648 (0)	7,073 (0)	29,726	0.47	648 (7)	7,073 (9)
1994	open	57	1.00	588 (1)	7,913 (1)	38,921	0.59	588 (5)	7,913 (12)
1995	open	3,298	1.00	574 (1)	7,493 (1)	13,967	0.78	574 (3)	7,493 (4)
1996	open	36,996	0.64	727 (5)	8,982 (7)	35,811	0.49	727 (7)	8,982 (11)
1997	open	1,519	0.75	839 (4)	10,138 (6)	26,533	0.98	839 (2)	10,138 (3)
1998	open	8,037	0.69	1,022 (4)	12,775 (11)	15,426	0.57	1,022 (10)	12,775 (19)
1999	open	12,100	0.49	1,422 (12)	17,197 (13)	28,357	0.44	1,422 (12)	17,197 (22)
2000	open	369	0.86	1,234 (4)	14,565 (4)	66,339	0.69	1,234 (6)	14,565 (9)
2001	open	1,474	0.51	1,085 (8)	15,860 (8)	5,806	0.72	1,085 (5)	15,860 (9)
2002	open	1,414	0.67	1,218 (7)	17,259 (7)	6,874	1.00	1,218 (1)	17,259 (3)
2003	open	4,399	0.52	1,355 (12)	17,018 (12)	2,369	0.56	1,355 (6)	17,018 (10)

Year	FED_CLOSED	AB1				B2			
		Total	CV	PSU	Trp	Total	CV	PSU	Trp
2004	open	7,331	0.87	982 (8)	14,159 (9)	92,594	0.74	982 (11)	14,159 (24)
2005	open	82,301	0.59	875 (17)	12,629 (23)	93,444	0.47	875 (15)	12,629 (43)
2006	open	28,521	0.59	740 (9)	10,925 (10)	45,220	0.43	740 (15)	10,925 (34)
2007	open	42,112	0.81	812 (6)	11,089 (10)	43,501	0.49	812 (11)	11,089 (23)
2008	open	7,922	0.67	998 (11)	12,465 (11)	11,452	0.50	998 (10)	12,465 (23)
2009	open	19,685	0.55	924 (8)	12,431 (9)	41,053	0.58	924 (13)	12,431 (27)
2010	open	5,099	0.53	934 (6)	12,808 (8)	24,026	0.54	934 (13)	12,808 (25)
2011	open	15,121	0.66	968 (3)	12,151 (5)	14,601	0.98	968 (9)	12,151 (18)
2012	open	16,614	0.61	1,117 (5)	13,001 (5)	15,633	0.92	1,117 (5)	13,001 (8)
2013	open	1,395	0.70	924 (5)	10,233 (6)	10,940	0.57	924 (10)	10,233 (17)
2014	open	8,806	0.51	1,274 (7)	14,843 (13)	20,596	0.49	1,274 (13)	14,843 (39)
2015	open	9,920	0.58	1,294 (5)	13,953 (7)	16,174	0.46	1,294 (12)	13,953 (38)
2016	open	26,680	0.49	1,245 (15)	12,926 (24)	42,790	0.62	1,245 (56)	12,926 (147)
2017	open	96,748	0.34	979 (23)	10,928 (43)	148,234	0.34	979 (55)	10,928 (214)
2018	open	124,650	0.39	936 (15)	9,189 (28)	242,306	0.36	936 (37)	9,189 (141)
2019	open	124,251	0.45	925 (24)	8,559 (42)	169,378	0.33	925 (42)	8,559 (121)
2020	open	64,211	0.37	1,057 (11)	9,481 (16)	65,383	0.35	1,057 (30)	9,481 (68)
2021	open	125,328	0.46	1,056 (17)	8,628 (46)	249,211	0.44	1,056 (30)	8,628 (115)
2022	open	150,234	0.41	911 (22)	6,318 (31)	227,453	0.56	911 (27)	6,318 (86)
2023	open	184,635	0.42	1,095 (33)	8,999 (58)	320,568	0.33	1,095 (48)	8,999 (195)

Table 6.1. Red Snapper 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 **West** domain (Texas through Louisiana). 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 Red Snapper.

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
1981	closed	0	0.00	0	0.00	0	0.00	0	0.00
1982	closed	0	0.00	0	0.00	0	0.00	0	0.00
1983	closed	0	0.00	0	0.00	0	0.00	0	0.00
1984	closed	0	0.00	0	0.00	0	0.00	0	0.00
1985	closed	0	0.00	0	0.00	0	0.00	0	0.00
1986	closed	0	0.00			0	0.00	0	0.00
1987	closed	0	0.00			0	0.00	0	0.00
1988	closed	0	0.00			0	0.00	0	0.00
1989	closed	0	0.00			0	0.00	0	0.00
1990	closed	0	0.00			0	0.00	0	0.00
1991	closed	0	0.00			0	0.00	0	0.00
1992	closed	0	0.00			0	0.00	0	0.00
1993	closed	0	0.00			0	0.00	0	0.00
1994	closed	0	0.00			0	0.00	0	0.00
1995	closed	0	0.00			0	0.00	0	0.00
1996	closed	0	0.00			0	0.00	0	0.00
1997	closed	0	0.00			67,536	0.19	67,536	0.19
1998	closed	0	0.00			2,130	0.22	2,130	0.22
1999	closed	11,128	0.38			247,117	0.30	258,245	0.29
2000	closed	0	0.00			14,408	0.23	14,408	0.22
2001	closed	0	0.00			199,161	0.25	199,161	0.24
2002	closed	0	0.00			206,270	0.28	206,270	0.27
2003	closed	0	0.00			95,969	0.27	95,969	0.26
2004	closed	0	0.00			165,973	0.28	165,973	0.27
2005	closed	21,110	0.59			513,977	0.33	535,087	0.31
2006	closed	0	0.00			333,789	0.24	333,789	0.24
2007	closed	0	0.00			310,376	0.25	310,376	0.25
2008	closed	16,377	0.58			884,532	0.31	900,909	0.32
2009	closed	6,770	0.27			630,516	0.25	637,286	0.24
2010	closed	39,187	0.47			387,751	0.29	426,938	0.29

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
2011	closed	16,227	0.58			649,542	0.28	665,768	0.28
2012	closed	16,297	0.26			749,965	0.26	766,262	0.25
2013	closed	14,414	0.39			1,395,519	0.26	1,409,933	0.26
2014	closed	44,324	0.30			2,697,650	0.27	2,741,975	0.26
2015	closed	102,960	0.20			3,128,290	0.22	3,231,250	0.21
2016	closed	108,123	0.20			2,135,465	0.24	2,243,588	0.23
2017	closed	114,977	0.20			1,229,868	0.20	1,344,845	0.20
2018	closed	21,287	0.26			819,616	0.31	840,903	0.30
2019	closed	30,586	0.34			970,579	0.33	1,001,165	0.33
2020	closed	10,203	0.40			1,061,274	0.27	1,071,477	0.28
2021	closed	26,712	0.31			356,774	0.32	383,486	0.32
2022	closed	35,183	0.35			413,740	0.27	448,923	0.30
2023	closed	56,069	0.35			605,730	0.29	661,799	0.30
1981	open	740,540	0.62	91,753	0.62	6,823,416	0.66	7,655,710	0.63
1982	open	449,503	0.95	23,205	0.97	3,794,947	0.61	4,267,655	0.57
1983	open	916,363	0.39	63,122	0.33	5,445,431	0.64	6,424,916	0.46
1984	open	1,745,872	0.45	50,895	0.43	1,661,525	0.64	3,458,292	0.37
1985	open	3,726,195	0.70	82,124	0.62	1,654,596	0.86	5,462,914	0.66
1986	open	143,087	0.45			2,823,515	0.76	2,966,602	0.75
1987	open	147,827	0.32			813,776	0.40	961,603	0.37
1988	open	32,384	0.81			1,387,250	0.48	1,419,633	0.46
1989	open	124,057	0.71			1,504,265	0.39	1,628,322	0.36
1990	open	82,345	0.59			597,948	0.44	680,293	0.39
1991	open	443,086	0.37			973,515	0.40	1,416,601	0.35
1992	open	438,313	0.37			1,642,224	0.31	2,080,536	0.29
1993	open	289,947	0.42			3,843,594	0.29	4,133,541	0.30
1994	open	291,985	0.39			4,117,430	0.29	4,409,415	0.31
1995	open	374,258	0.55			6,180,941	0.27	6,555,199	0.28
1996	open	353,393	0.52			4,266,101	0.23	4,619,494	0.24
1997	open	403,789	0.35			3,977,655	0.21	4,381,445	0.22
1998	open	606,743	0.37			6,388,439	0.28	6,995,183	0.26
1999	open	347,003	0.53			2,651,945	0.27	2,998,948	0.28
2000	open	119,230	0.37			3,145,569	0.27	3,264,800	0.30
2001	open	95,356	0.35			1,514,977	0.23	1,610,333	0.23
2002	open	280,393	0.27			1,451,356	0.23	1,731,749	0.21
2003	open	328,286	0.28			1,206,758	0.22	1,535,044	0.20

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
2004	open	304,521	0.33			1,003,011	0.22	1,307,531	0.22
2005	open	358,526	0.32			1,483,587	0.23	1,842,113	0.22
2006	open	360,127	0.25			1,980,056	0.20	2,340,183	0.19
2007	open	227,916	0.23			1,681,716	0.19	1,909,632	0.18
2008	open	137,741	0.45			1,070,511	0.24	1,208,252	0.24
2009	open	198,394	0.43			1,785,729	0.21	1,984,123	0.20
2010	open	12,448	0.50			1,090,780	0.24	1,103,227	0.25
2011	open	68,197	0.50			1,546,943	0.23	1,615,140	0.23
2012	open	257,642	0.47			1,623,059	0.26	1,880,701	0.23
2013	open	180,619	0.55			1,724,747	0.21	1,905,366	0.21
2014	open	38,756	0.21			1,148,307	0.20	1,187,063	0.20
2015	open	122,294	0.15			1,476,766	0.16	1,599,060	0.16
2016	open	183,568	0.13			1,009,985	0.19	1,193,553	0.18
2017	open	178,030	0.14			2,380,918	0.19	2,558,948	0.18
2018	open	205,353	0.16			3,470,032	0.16	3,675,385	0.16
2019	open	205,943	0.18			4,829,569	0.18	5,035,513	0.18
2020	open	152,508	0.17			3,063,081	0.17	3,215,588	0.17
2021	open	193,817	0.17			3,256,554	0.19	3,450,371	0.18
2022	open	163,027	0.16			2,455,030	0.20	2,618,057	0.19
2023	open	256,812	0.16			3,520,474	0.18	3,777,286	0.18

Table 6.2. Red Snapper 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 **Central** domain (Mississippi through the Florida panhandle). 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 Red Snapper.

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
1981	closed	0	0.00	0	0.00	0	0.00	0	0.00
1982	closed	0	0.00	0	0.00	0	0.00	0	0.00
1983	closed	0	0.00	0	0.00	0	0.00	0	0.00
1984	closed	0	0.00	0	0.00	0	0.00	0	0.00
1985	closed	0	0.00	0	0.00	0	0.00	0	0.00
1986	closed	0	0.00			0	0.00	0	0.00
1987	closed	0	0.00			0	0.00	0	0.00
1988	closed	0	0.00			0	0.00	0	0.00
1989	closed	0	0.00			0	0.00	0	0.00
1990	closed	0	0.00			0	0.00	0	0.00
1991	closed	0	0.00			0	0.00	0	0.00
1992	closed	0	0.00			0	0.00	0	0.00
1993	closed	0	0.00			0	0.00	0	0.00
1994	closed	0	0.00			0	0.00	0	0.00
1995	closed	0	0.00			0	0.00	0	0.00
1996	closed	0	0.00			0	0.00	0	0.00
1997	closed	28,796	0.18			8,422	0.20	37,219	0.16
1998	closed	137,761	0.12			202,338	0.35	340,099	0.15
1999	closed	167,936	0.14			146,727	0.32	314,662	0.18
2000	closed	85,762	0.13			462,836	0.23	548,597	0.17
2001	closed	19,606	0.10			1,243,554	0.23	1,263,160	0.18
2002	closed	54,749	0.13			103,809	0.20	158,557	0.17
2003	closed	10,855	0.30			80,759	0.19	91,614	0.26
2004	closed	52,547	0.10			10,008	0.27	62,556	0.19
2005	closed	22,917	0.12			286,244	0.32	309,161	0.20
2006	closed	46,399	0.18			202,998	0.27	249,398	0.19
2007	closed	55,164	0.12			587,490	0.25	642,654	0.19
2008	closed	462,392	0.14			1,160,893	0.21	1,623,285	0.15
2009	closed	6,994	0.35			49,791	0.21	56,785	0.30
2010	closed	134	0.17			0	0.00	134	0.27

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
2011	closed	198	0.27			256,806	0.22	257,003	0.19
2012	closed	10,245	0.21			76,357	0.21	86,601	0.21
2013	closed	0	0.00			403,401	0.36	403,401	0.32
2014	closed	94,601	0.32			2,015,516	0.24	2,110,117	0.23
2015	closed	53,736	0.30			2,303,832	0.29	2,357,568	0.25
2016	closed	66,218	0.26			4,251,601	0.20	4,317,818	0.18
2017	closed	48,585	0.33			3,513,751	0.22	3,562,335	0.20
2018	closed	24,319	0.23			41,134	0.24	65,453	0.19
2019	closed	22,826	0.46			51,085	0.21	73,911	0.35
2020	closed	51,104	0.38			241,202	0.21	292,307	0.21
2021	closed	140,562	0.25			54,049	0.23	194,611	0.25
2022	closed	17,301	0.36			194,296	0.50	211,597	0.37
2023	closed	47,438	0.28			166,040	0.33	213,478	0.28
1981	open	138,525	0.82	103,262	0.83	3,171,312	0.59	3,413,099	0.45
1982	open	721,369	0.59	315,483	0.43	481,274	0.56	1,518,126	0.43
1983	open	1,175,692	0.36	948,069	0.36	1,034,920	0.62	3,158,681	0.33
1984	open	378,253	0.41	343,976	0.47	312,352	0.63	1,034,581	0.40
1985	open	565,477	0.47	341,450	0.40	1,552,825	0.64	2,459,751	0.43
1986	open	1,821,590	0.26			1,030,043	0.72	2,851,634	0.31
1987	open	1,383,726	0.28			1,226,559	0.36	2,610,285	0.25
1988	open	1,110,397	0.37			1,013,440	0.51	2,123,836	0.34
1989	open	586,813	0.45			1,834,497	0.81	2,421,310	0.64
1990	open	759,517	0.43			826,123	0.42	1,585,639	0.38
1991	open	556,070	0.30			2,405,285	0.34	2,961,355	0.29
1992	open	1,069,803	0.33			4,193,230	0.23	5,263,032	0.28
1993	open	2,853,069	0.36			5,615,766	0.27	8,468,835	0.23
1994	open	1,488,624	0.24			4,356,660	0.30	5,845,284	0.22
1995	open	948,406	0.30			2,609,813	0.35	3,558,219	0.27
1996	open	1,833,650	0.35			1,867,540	0.33	3,701,190	0.26
1997	open	2,661,504	0.22			3,815,377	0.28	6,476,882	0.21
1998	open	3,407,065	0.12			2,142,858	0.32	5,549,924	0.14
1999	open	2,688,919	0.11			6,654,941	0.31	9,343,859	0.20
2000	open	1,658,568	0.09			3,401,299	0.25	5,059,867	0.16
2001	open	1,796,346	0.11			6,943,634	0.28	8,739,980	0.21
2002	open	2,516,671	0.11			8,967,086	0.25	11,483,757	0.18
2003	open	2,493,150	0.17			5,935,328	0.26	8,428,478	0.21

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
2004	open	1,810,237	0.10			6,115,691	0.30	7,925,928	0.20
2005	open	1,277,189	0.11			3,651,812	0.31	4,929,001	0.20
2006	open	1,193,169	0.12			3,218,055	0.25	4,411,225	0.16
2007	open	1,459,902	0.12			4,364,975	0.28	5,824,878	0.19
2008	open	562,607	0.13			2,882,155	0.20	3,444,762	0.15
2009	open	1,095,845	0.17			4,546,228	0.23	5,642,073	0.17
2010	open	374,687	0.19			5,326,288	0.32	5,700,975	0.28
2011	open	954,212	0.20			7,714,470	0.22	8,668,682	0.17
2012	open	1,001,845	0.19			9,023,465	0.23	10,025,310	0.19
2013	open	1,132,367	0.37			14,063,584	0.32	15,195,951	0.28
2014	open	130,964	0.28			4,103,615	0.22	4,234,579	0.20
2015	open	1,277,654	0.25			4,407,672	0.24	5,685,326	0.20
2016	open	1,587,600	0.23			3,597,549	0.16	5,185,148	0.13
2017	open	1,438,080	0.27			12,346,211	0.23	13,784,291	0.19
2018	open	1,426,267	0.24			10,479,038	0.25	11,905,304	0.21
2019	open	1,649,839	0.28			10,790,478	0.23	12,440,317	0.19
2020	open	1,637,946	0.34			8,031,549	0.21	9,669,496	0.17
2021	open	1,029,487	0.20			8,235,717	0.26	9,265,204	0.22
2022	open	1,961,813	0.20			10,200,357	0.20	12,162,170	0.16
2023	open	1,995,568	0.18			7,655,308	0.26	9,650,876	0.18

Table 6.3. Red Snapper 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 **East** domain (western Florida through the Florida Keys). 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 Red Snapper.

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
1981	closed	0	0.00	0	0.00	0	0.00	0	0.00
1982	closed	0	0.00	0	0.00	0	0.00	0	0.00
1983	closed	0	0.00	0	0.00	0	0.00	0	0.00
1984	closed	0	0.00	0	0.00	0	0.00	0	0.00
1985	closed	0	0.00	0	0.00	0	0.00	0	0.00
1986	closed	0	0.00			0	0.00	0	0.00
1987	closed	0	0.00			0	0.00	0	0.00
1988	closed	0	0.00			0	0.00	0	0.00
1989	closed	0	0.00			0	0.00	0	0.00
1990	closed	0	0.00			0	0.00	0	0.00
1991	closed	0	0.00			0	0.00	0	0.00
1992	closed	0	0.00			0	0.00	0	0.00
1993	closed	0	0.00			0	0.00	0	0.00
1994	closed	0	0.00			0	0.00	0	0.00
1995	closed	0	0.00			0	0.00	0	0.00
1996	closed	0	0.00			0	0.00	0	0.00
1997	closed	662	0.75			0	0.00	662	0.75
1998	closed	0	0.00			0	0.00	0	0.00
1999	closed	876	0.54			0	0.00	876	0.56
2000	closed	96	0.75			8,914	1.00	9,010	0.86
2001	closed	147	0.74			0	0.00	147	0.73
2002	closed	770	0.53			25,700	0.72	26,470	0.67
2003	closed	88	0.39			0	0.00	88	0.52
2004	closed	559	0.48			0	0.00	559	0.87
2005	closed	1,515	0.46			0	0.00	1,515	0.60
2006	closed	3,453	0.86			0	0.00	3,453	0.60
2007	closed	189	0.74			0	0.00	189	0.81
2008	closed	3,811	0.62			0	0.00	3,811	0.68
2009	closed	0	0.00			4,324	0.60	4,324	0.55
2010	closed	7,393	0.77			7,611	0.72	15,004	0.55

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
2011	closed	0	0.00			6,160	0.66	6,160	0.66
2012	closed	0	0.00			7,269	0.72	7,269	0.61
2013	closed	0	0.00			15,015	0.79	15,015	0.70
2014	closed	1,096	0.66			0	0.00	1,096	0.51
2015	closed	0	0.00			0	0.00	0	0.00
2016	closed	0	0.00			40,494	0.62	40,494	0.49
2017	closed	411	0.51			0	0.00	411	0.37
2018	closed	0	0.00			0	0.00	0	0.00
2019	closed	0	0.00			0	0.00	0	0.00
2020	closed	0	0.00			0	0.00	0	0.00
2021	closed	0	0.00			0	0.00	0	0.00
2022	closed	0	0.00			0	0.00	0	0.00
2023	closed	410	0.33			142,993	0.54	143,404	0.42
1981	open	51,606	0.89	34,949	0.84	968,168	0.64	1,054,723	0.67
1982	open	9,178	1.00	3,700	1.00	29,420	0.84	42,299	0.73
1983	open	56,543	0.41	65,432	0.51	1,294,876	1.00	1,416,851	0.92
1984	open	63,097	0.64	53,916	0.69	45,675	0.77	162,688	0.54
1985	open	28,496	0.77	24,922	0.81	445,067	0.72	498,485	0.69
1986	open	287,385	0.55			494,520	0.52	781,905	0.45
1987	open	7,350	0.92			314,634	0.53	321,984	0.61
1988	open	19,082	0.66			167,438	0.49	186,520	0.44
1989	open	49,037	1.00			322,181	0.69	371,218	0.64
1990	open	0	0.00			148,042	0.53	148,042	0.53
1991	open	187	1.00			67,366	0.61	67,553	0.61
1992	open	6,860	0.77			10,015	0.71	16,875	0.69
1993	open	0	0.00			0	0.00	0	0.00
1994	open	202	1.00			0	0.00	202	1.00
1995	open	0	0.00			15,433	1.00	15,433	1.00
1996	open	1,632	1.00			96,980	0.64	98,611	0.64
1997	open	7,996	0.76			0	0.00	7,996	0.76
1998	open	22,864	0.70			0	0.00	22,864	0.70
1999	open	1,900	0.50			39,730	0.55	41,630	0.52
2000	open	1,349	0.75			0	0.00	1,349	0.86
2001	open	5,222	0.54			0	0.00	5,222	0.52
2002	open	959	0.53			4,492	0.72	5,451	0.67
2003	open	5,201	0.40			10,343	0.80	15,544	0.52

Year	FED_CLOSED	Cbt		Hbt		Priv		Total	
		LBS	CV	LBS	CV	LBS	CV	LBS	CV
2004	open	1,017	0.47			22,213	0.92	23,230	0.87
2005	open	4,217	0.45			390,336	0.64	394,553	0.63
2006	open	31,599	0.86			59,250	0.79	90,849	0.59
2007	open	2,361	0.74			142,701	0.83	145,062	0.82
2008	open	8,661	0.61			28,942	1.00	37,603	0.67
2009	open	10,482	0.65			56,809	0.60	67,291	0.56
2010	open	20,141	0.76			12,177	0.72	32,318	0.53
2011	open	0	0.00			75,318	0.66	75,318	0.66
2012	open	18,651	0.82			87,519	0.72	106,170	0.61
2013	open	2,987	0.77			6,442	0.79	9,428	0.71
2014	open	27,517	0.66			35,204	0.77	62,720	0.53
2015	open	48,168	0.69			14,097	1.00	62,265	0.59
2016	open	58,200	0.55			97,884	0.75	156,084	0.56
2017	open	102,844	0.52			348,975	0.44	451,819	0.36
2018	open	133,770	0.63			479,172	0.47	612,942	0.41
2019	open	102,888	0.33			638,478	0.54	741,366	0.46
2020	open	143,900	0.56			174,652	0.53	318,552	0.41
2021	open	275,608	0.48			540,293	0.72	815,901	0.49
2022	open	235,153	0.43			722,026	0.62	957,179	0.46
2023	open	299,274	0.34			1,034,941	0.55	1,334,214	0.43

Table 7.1. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Red Snapper by mode and year for the **West** domain (Texas through Louisiana). Summaries include the number of fish measured by MRIP and, in parentheses, the number of angler trips from which those fish were measured (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	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1981	closed	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	closed	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
1983	closed	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	closed	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	closed	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	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1987	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1988	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1989	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1990	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1991	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1992	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1993	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1994	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1995	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1996	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1997	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1998	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1999	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2000	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2001	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2002	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2003	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2004	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2005	closed	0 (0)	0.0	0.0	0.0	0.0						16 (4)	1.7	3.4	2.7	13.2
2006	closed	0 (0)	0.0	0.0	0.0	0.0						1 (1)	1.9	1.9	0.0	1.9
2007	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2008	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2009	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2010	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2011	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2012	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2013	closed	0 (0)	0.0	0.0	0.0	0.0						32 (8)	2.9	6.5	2.7	11.1
2014	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2015	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2016	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2017	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2018	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2019	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2020	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2021	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2022	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2023	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1981	open	84 (16)	0.4	3.1	3.4	15.4	30 (5)	0.4	4.8	3.3	8.8	94 (14)	0.4	2.4	2.3	10.1
1982	open	5 (3)	2.0	2.4	0.6	3.3	153 (16)	0.2	1.1	1.1	12.3	171 (33)	0.2	2.1	2.6	15.7
1983	open	633 (93)	0.7	2.1	2.8	35.0	494 (55)	0.4	1.8	1.5	21.2	159 (29)	0.2	1.6	2.6	24.5

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1984	open	506 (81)	0.2	5.1	6.4	50.0	26 (4)	0.8	1.5	0.8	4.0	63 (15)	0.4	2.3	3.8	22.1
1985	open	61 (5)	1.5	5.8	5.2	19.7	75 (19)	0.7	1.6	0.9	5.4	47 (8)	0.7	1.5	0.7	3.8
1986	open	601 (69)	0.4	2.0	2.8	27.9						130 (24)	0.2	2.2	1.9	13.9
1987	open	329 (26)	0.7	2.4	3.0	22.9						26 (5)	0.4	1.3	0.9	4.3
1988	open	5 (1)	1.1	1.9	1.4	4.4						0 (0)	0.0	0.0	0.0	0.0
1989	open	34 (7)	0.7	2.3	1.1	5.1						81 (19)	0.8	4.0	3.6	17.3
1990	open	104 (21)	1.5	2.9	1.3	12.3						45 (10)	0.7	1.6	2.0	12.9
1991	open	473 (51)	1.1	4.0	4.9	35.2						12 (3)	1.5	4.9	5.9	14.8
1992	open	455 (54)	0.9	3.9	4.4	29.9						108 (23)	0.7	3.1	2.3	18.1
1993	open	206 (29)	0.9	3.6	3.5	18.6						119 (24)	0.9	4.4	3.2	16.6
1994	open	231 (36)	1.1	4.8	5.1	29.0						127 (24)	1.4	5.2	3.8	19.3
1995	open	229 (29)	1.5	4.7	4.1	21.2						107 (21)	1.4	5.2	3.7	16.6
1996	open	171 (22)	1.3	5.5	4.1	24.4						90 (15)	1.5	5.4	5.3	29.0
1997	open	155 (25)	1.9	6.5	4.1	23.8						96 (25)	1.8	4.9	3.2	13.9
1998	open	265 (22)	1.6	5.3	3.4	20.3						74 (18)	1.8	7.2	5.4	17.0
1999	open	60 (6)	2.6	7.2	5.1	28.7						169 (35)	1.9	7.3	6.0	34.3
2000	open	139 (19)	2.2	7.6	5.7	24.2						87 (25)	2.7	8.0	5.6	23.1
2001	open	30 (9)	2.9	8.7	5.3	22.3						41 (14)	1.9	5.4	4.0	18.8
2002	open	306 (35)	1.9	6.1	4.0	18.3						24 (9)	1.9	6.3	3.6	12.3
2003	open	413 (36)	1.5	6.5	5.1	29.2						32 (11)	1.9	3.9	3.1	12.0
2004	open	451 (39)	1.8	3.8	3.1	21.5						17 (6)	2.0	5.9	4.2	12.1
2005	open	352 (54)	1.5	4.9	4.5	20.9						43 (9)	1.7	3.3	2.8	13.2
2006	open	697 (47)	1.7	3.9	3.5	28.1						120 (31)	1.7	3.0	1.0	5.4
2007	open	609 (38)	1.7	3.7	2.1	18.2						137 (34)	2.1	3.8	1.6	8.8
2008	open	83 (10)	2.2	6.4	3.5	19.3						107 (28)	2.2	4.4	1.9	10.0

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2009	open	93 (9)	2.9	7.4	2.7	16.0						131 (37)	2.6	6.1	2.5	13.8
2010	open	0 (0)	0.0	0.0	0.0	0.0						6 (2)	6.0	7.4	2.5	12.3
2011	open	41 (5)	4.3	10.1	2.5	14.3						35 (11)	4.0	8.7	2.7	13.2
2012	open	117 (15)	5.5	10.4	3.5	21.6						88 (25)	2.3	6.4	3.1	14.3
2013	open	37 (7)	6.9	11.0	4.9	29.3						176 (33)	2.4	6.7	3.1	13.2
2014	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2015	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2016	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2017	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2018	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2019	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2020	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2021	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2022	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2023	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0

Table 7.2. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Red Snapper by mode and year for the **Central** domain (Mississippi through the Florida panhandle). Summaries include the number of fish measured by MRIP and, in parentheses, the number of angler trips from which those fish were measured (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	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1981	closed	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	closed	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
1983	closed	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	closed	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	closed	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	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1987	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1988	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1989	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1990	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1991	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1992	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1993	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1994	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1995	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1996	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1997	closed	151 (17)	1.6	4.1	2.4	20.4						4 (1)	2.1	2.7	0.5	3.1
1998	closed	677 (60)	1.8	3.3	1.4	11.6						29 (8)	1.8	4.0	2.7	11.7
1999	closed	934 (131)	1.0	4.1	2.7	25.9						21 (7)	2.7	5.5	3.8	16.5
2000	closed	619 (33)	1.0	5.6	4.3	50.3						15 (3)	2.5	3.9	1.5	8.8

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2001	closed	95 (6)	1.8	4.6	3.3	24.5						41 (11)	1.4	5.0	2.5	11.9
2002	closed	189 (10)	1.8	5.7	3.7	24.6						8 (2)	2.4	4.2	2.0	8.8
2003	closed	49 (6)	1.9	3.8	3.2	17.6						5 (4)	2.5	3.8	1.7	6.7
2004	closed	391 (43)	1.6	3.5	1.6	12.5						2 (1)	4.2	4.2	0.0	4.2
2005	closed	230 (20)	2.0	3.6	1.7	16.8						18 (6)	2.1	3.4	1.7	7.5
2006	closed	175 (17)	1.7	3.6	1.9	14.0						13 (2)	2.2	3.6	1.8	9.1
2007	closed	154 (11)	1.8	3.1	1.1	7.7						32 (7)	2.2	3.3	1.2	6.7
2008	closed	1,804 (220)	1.5	3.7	1.8	16.6						154 (54)	1.7	4.1	1.7	10.6
2009	closed	15 (6)	2.2	5.8	3.1	11.9						4 (3)	2.4	4.8	2.6	7.5
2010	closed	1 (1)	5.5	5.5	0.0	5.5						0 (0)	0.0	0.0	0.0	0.0
2011	closed	3 (2)	4.5	5.7	1.5	7.3						6 (6)	3.0	7.1	3.2	11.2
2012	closed	26 (13)	2.6	6.4	3.3	14.6						3 (1)	2.6	6.7	4.8	11.9
2013	closed	0 (0)	0.0	0.0	0.0	0.0						56 (17)	2.0	4.8	3.2	13.6
2014	closed	229 (44)	1.6	4.7	3.1	20.5						443 (143)	1.8	5.6	3.9	19.6
2015	closed	65 (16)	2.1	6.0	3.8	15.9						408 (126)	0.4	5.3	4.0	21.4
2016	closed	118 (27)	1.7	6.5	4.3	22.4						770 (246)	0.9	5.6	3.7	19.8
2017	closed	108 (27)	0.4	3.8	2.3	13.1						939 (302)	1.0	6.2	4.5	22.0
2018	closed	7 (2)	1.1	6.1	6.0	14.8						2 (2)	4.8	4.9	0.2	5.0
2019	closed	57 (8)	2.0	4.9	3.6	18.6						13 (8)	1.5	4.1	1.5	7.1
2020	closed	66 (16)	2.1	5.5	3.3	15.7						198 (44)	0.8	5.0	3.8	21.8
2021	closed	161 (38)	1.4	5.3	3.8	19.0						4 (4)	2.4	8.4	9.9	23.1
2022	closed	83 (18)	1.4	5.9	4.8	23.1						17 (4)	1.8	8.3	6.0	19.0
2023	closed	78 (23)	1.2	3.4	1.9	13.2						18 (7)	2.2	5.1	5.2	22.3
1981	open	126 (16)	0.2	3.6	5.0	22.0	53 (17)	0.5	2.3	1.3	5.0	120 (16)	0.2	1.8	1.4	7.6
1982	open	159 (32)	0.2	1.8	1.8	10.8	268 (63)	0.2	2.3	1.3	7.1	129 (31)	0.4	2.2	1.8	10.6

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1983	open	376 (49)	0.2	1.8	1.5	11.5	444 (109)	0.2	1.7	1.4	12.9	86 (20)	0.2	1.4	1.7	12.1
1984	open	159 (36)	0.4	1.8	1.4	9.5	98 (25)	0.4	2.4	2.0	9.5	47 (12)	0.2	1.1	1.4	6.6
1985	open	251 (57)	0.9	2.4	1.9	10.9	136 (42)	0.4	2.0	1.2	7.1	39 (12)	0.2	2.8	3.0	16.6
1986	open	849 (230)	0.6	3.4	2.9	22.2						55 (23)	0.4	3.7	3.8	17.2
1987	open	885 (136)	0.2	2.9	2.8	26.1						270 (77)	0.4	2.4	2.4	21.2
1988	open	161 (35)	0.5	2.9	2.2	10.8						33 (11)	0.3	2.6	1.6	6.8
1989	open	503 (96)	0.5	3.1	3.5	22.7						55 (21)	0.5	2.1	2.0	11.9
1990	open	314 (56)	0.9	3.3	3.6	25.5						139 (37)	0.7	2.4	2.0	11.4
1991	open	1,038 (135)	0.8	3.2	1.9	17.5						326 (61)	0.9	2.7	3.1	30.6
1992	open	1,973 (205)	0.4	3.5	2.8	38.0						770 (120)	0.7	2.8	1.9	15.1
1993	open	1,190 (177)	0.6	3.7	2.5	27.0						439 (87)	0.7	3.6	2.6	15.5
1994	open	881 (156)	0.6	3.9	2.9	22.4						394 (76)	0.7	3.8	3.4	27.7
1995	open	520 (94)	1.1	3.4	2.2	15.5						240 (65)	1.0	4.1	3.7	21.8
1996	open	598 (117)	1.0	4.9	3.5	27.7						275 (68)	0.3	3.8	4.1	31.2
1997	open	1,959 (256)	1.4	5.5	4.1	43.9						387 (89)	1.1	4.9	3.8	20.6
1998	open	3,575 (342)	0.3	4.2	2.7	32.0						234 (56)	1.5	4.2	2.8	12.8
1999	open	7,845 (526)	0.2	5.8	4.4	52.5						917 (175)	0.5	6.6	5.3	51.7
2000	open	8,880 (727)	0.6	4.5	3.1	34.9						544 (123)	1.3	5.6	4.1	32.3
2001	open	7,365 (525)	0.7	4.6	3.3	36.1						601 (138)	1.0	7.0	5.7	31.2
2002	open	8,454 (542)	1.0	4.5	3.2	40.6						909 (165)	1.6	5.5	4.1	38.7
2003	open	7,827 (597)	1.1	4.6	3.6	41.1						626 (168)	1.8	5.8	4.8	37.2
2004	open	7,311 (736)	1.1	3.4	2.1	30.4						657 (167)	1.5	4.2	2.9	26.0
2005	open	6,384 (624)	1.3	3.3	2.0	22.1						343 (115)	1.3	4.8	3.4	23.8
2006	open	5,211 (500)	0.6	3.1	1.8	25.9						377 (112)	1.1	3.8	2.4	15.7
2007	open	5,721 (526)	0.7	3.1	1.6	25.9						546 (156)	1.1	3.5	2.3	22.5

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2008	open	989 (121)	1.7	3.9	2.0	21.1						315 (87)	1.7	4.7	2.5	15.2
2009	open	1,415 (181)	1.9	5.5	3.0	19.8						470 (140)	1.9	4.5	2.6	24.3
2010	open	1,544 (196)	1.1	5.4	3.0	27.0						339 (93)	2.0	5.3	2.5	14.6
2011	open	1,352 (151)	1.9	6.0	3.2	23.3						557 (144)	1.1	6.4	3.5	27.3
2012	open	1,555 (186)	1.8	6.8	3.8	21.4						551 (148)	0.6	7.4	3.9	25.4
2013	open	657 (83)	1.9	7.0	3.9	18.1						866 (250)	1.2	8.3	4.9	24.4
2014	open	296 (45)	2.1	8.6	4.5	20.5						617 (113)	2.0	7.8	4.6	22.0
2015	open	1,274 (208)	1.8	6.8	4.2	25.8						495 (137)	1.5	7.4	4.4	23.6
2016	open	1,420 (223)	1.6	7.7	4.6	31.9						565 (164)	2.0	7.4	4.3	22.3
2017	open	1,039 (156)	0.4	7.0	4.6	24.9						680 (194)	2.0	6.8	4.5	25.4
2018	open	1,600 (250)	1.9	6.9	4.4	25.4						1,055 (301)	1.9	6.4	4.1	24.5
2019	open	1,490 (243)	1.2	6.6	4.5	25.4						1,803 (419)	1.5	6.0	3.9	24.8
2020	open	1,513 (274)	0.8	6.7	4.6	26.5						1,159 (296)	0.8	5.8	4.1	29.8
2021	open	2,090 (382)	1.3	5.2	4.0	25.9						1,036 (267)	1.7	6.5	5.1	24.7
2022	open	1,867 (278)	1.4	6.2	5.4	32.0						958 (277)	1.3	7.9	6.3	24.7
2023	open	3,566 (606)	1.7	5.5	4.7	29.2						682 (172)	1.9	5.7	5.1	26.5

Table 7.3. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Red Snapper by mode and year for the **East** domain (western Florida through the Florida Keys). Summaries include the number of fish measured by MRIP and, in parentheses, the number of angler trips from which those fish were measured (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	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1981	closed	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	closed	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
1983	closed	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	closed	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	closed	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	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1987	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1988	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1989	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1990	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1991	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1992	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1993	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1994	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1995	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1996	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1997	closed	1 (1)	2.9	2.9	0.0	2.9						0 (0)	0.0	0.0	0.0	0.0
1998	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1999	closed	14 (3)	1.3	4.8	6.1	25.9						0 (0)	0.0	0.0	0.0	0.0
2000	closed	2 (1)	2.2	2.3	0.0	2.3						1 (1)	3.5	3.5	0.0	3.5

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2001	closed	3 (3)	2.3	5.7	5.2	11.6						0 (0)	0.0	0.0	0.0	0.0
2002	closed	9 (2)	2.4	2.9	0.3	3.3						3 (2)	2.0	2.4	0.4	2.7
2003	closed	1 (1)	3.1	3.1	0.0	3.1						0 (0)	0.0	0.0	0.0	0.0
2004	closed	7 (4)	3.4	6.0	2.1	9.0						0 (0)	0.0	0.0	0.0	0.0
2005	closed	15 (8)	1.8	3.0	1.3	6.7						0 (0)	0.0	0.0	0.0	0.0
2006	closed	9 (3)	2.2	4.4	2.5	10.3						0 (0)	0.0	0.0	0.0	0.0
2007	closed	1 (1)	3.3	3.3	0.0	3.3						0 (0)	0.0	0.0	0.0	0.0
2008	closed	20 (7)	2.6	5.1	3.1	16.6						0 (0)	0.0	0.0	0.0	0.0
2009	closed	0 (0)	0.0	0.0	0.0	0.0						1 (1)	4.2	4.2	0.0	4.2
2010	closed	17 (5)	2.3	5.2	2.6	10.1						2 (1)	8.4	10.8	3.5	13.3
2011	closed	0 (0)	0.0	0.0	0.0	0.0						1 (1)	12.5	12.5	0.0	12.5
2012	closed	0 (0)	0.0	0.0	0.0	0.0						1 (1)	9.3	9.3	0.0	9.3
2013	closed	0 (0)	0.0	0.0	0.0	0.0						2 (1)	6.3	8.0	2.4	9.7
2014	closed	4 (3)	2.2	4.4	4.0	10.3						0 (0)	0.0	0.0	0.0	0.0
2015	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2016	closed	0 (0)	0.0	0.0	0.0	0.0						6 (2)	1.3	5.6	4.6	14.5
2017	closed	2 (2)	0.9	1.6	1.1	2.4						55 (17)	2.1	4.3	2.8	22.0
2018	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2019	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2020	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2021	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2022	closed	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
2023	closed	1 (1)	15.1	15.1	0.0	15.1						10 (2)	2.4	9.0	5.8	19.0
1981	open	10 (2)	0.4	2.4	2.9	9.9	7 (5)	0.2	3.0	3.7	11.0	37 (6)	0.6	1.3	0.7	2.8
1982	open	0 (0)	0.0	0.0	0.0	0.0	3 (1)	0.9	1.4	0.5	1.8	3 (2)	2.4	5.5	5.2	11.5

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1983	open	7 (1)	2.5	3.0	0.6	3.9	92 (64)	0.7	4.0	5.4	27.4	7 (1)	1.5	2.8	0.8	3.7
1984	open	32 (3)	0.9	1.8	0.6	3.7	23 (23)	0.9	3.3	2.0	8.0	6 (2)	0.2	0.6	0.4	1.4
1985	open	14 (4)	0.4	2.6	2.4	8.5	11 (10)	0.9	3.5	3.6	9.8	14 (8)	0.2	2.3	1.3	3.7
1986	open	70 (28)	2.2	5.2	3.7	19.4						29 (15)	1.5	2.7	0.9	4.5
1987	open	10 (4)	0.7	7.1	6.9	19.2						22 (8)	1.4	3.4	1.9	8.7
1988	open	11 (6)	3.1	3.6	0.7	4.8						8 (4)	2.5	4.3	2.2	7.1
1989	open	8 (1)	0.9	1.3	0.2	1.6						16 (4)	1.1	2.1	1.0	4.0
1990	open	0 (0)	0.0	0.0	0.0	0.0						5 (4)	1.6	7.1	3.5	11.4
1991	open	1 (1)	2.0	2.0	0.0	2.0						4 (3)	2.0	5.4	3.1	8.3
1992	open	9 (5)	1.5	5.0	6.1	17.7						2 (2)	1.8	3.2	2.0	4.7
1993	open	0 (0)	0.0	0.0	0.0	0.0						0 (0)	0.0	0.0	0.0	0.0
1994	open	1 (1)	4.0	4.0	0.0	4.0						0 (0)	0.0	0.0	0.0	0.0
1995	open	0 (0)	0.0	0.0	0.0	0.0						1 (1)	15.2	15.2	0.0	15.2
1996	open	2 (1)	12.7	13.8	1.6	15.0						11 (6)	1.9	3.6	1.4	5.7
1997	open	20 (5)	0.9	5.0	5.5	26.7						0 (0)	0.0	0.0	0.0	0.0
1998	open	32 (11)	0.8	2.4	1.1	4.9						0 (0)	0.0	0.0	0.0	0.0
1999	open	9 (5)	2.2	3.7	1.1	5.9						13 (5)	2.5	4.5	1.2	6.5
2000	open	2 (2)	5.6	7.3	2.3	8.9						0 (0)	0.0	0.0	0.0	0.0
2001	open	19 (5)	1.9	6.3	4.2	14.9						0 (0)	0.0	0.0	0.0	0.0
2002	open	5 (2)	3.2	8.1	4.2	13.6						2 (1)	2.3	3.2	1.2	4.0
2003	open	55 (9)	1.5	3.5	1.2	8.2						3 (2)	2.5	2.9	0.4	3.2
2004	open	4 (3)	3.3	3.6	0.4	4.1						10 (2)	2.4	3.8	1.1	5.2
2005	open	25 (5)	1.9	3.1	1.2	5.7						37 (10)	2.5	4.3	2.1	10.8
2006	open	18 (3)	1.8	3.7	2.7	13.9						11 (4)	1.8	2.6	0.4	2.9
2007	open	14 (2)	2.3	3.7	0.8	5.3						16 (7)	2.2	3.6	1.8	8.5

Year	FED_CLOSED	Cbt					Hbt					Priv				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2008	open	8 (3)	1.7	3.6	1.4	5.6						6 (1)	5.9	7.3	1.9	11.0
2009	open	5 (3)	3.2	4.3	1.3	6.6						10 (5)	2.8	6.0	2.8	8.4
2010	open	13 (1)	6.4	8.1	1.2	9.9						2 (1)	4.2	6.4	3.1	8.6
2011	open	0 (0)	0.0	0.0	0.0	0.0						14 (4)	4.1	5.7	1.5	9.1
2012	open	17 (2)	2.1	6.7	3.8	13.2						8 (2)	1.9	5.1	2.3	9.1
2013	open	28 (4)	2.4	7.1	3.4	13.4						1 (1)	11.1	11.1	0.0	11.1
2014	open	29 (3)	4.9	7.6	2.2	12.3						14 (7)	2.2	5.7	4.0	13.1
2015	open	40 (6)	3.2	5.7	2.1	13.0						5 (1)	5.7	11.3	4.6	17.0
2016	open	51 (16)	1.9	4.5	3.0	15.0						9 (6)	2.0	5.0	3.8	12.1
2017	open	102 (18)	0.7	4.0	2.8	14.9						17 (6)	2.2	3.7	1.8	9.3
2018	open	118 (18)	1.8	5.5	3.6	19.4						46 (10)	2.2	5.5	2.0	8.5
2019	open	137 (24)	1.6	5.5	3.0	15.0						56 (18)	2.2	5.4	2.4	13.2
2020	open	33 (7)	1.7	6.1	3.5	13.5						19 (9)	1.9	5.3	3.0	12.3
2021	open	206 (38)	1.8	6.6	3.9	22.1						25 (8)	2.6	8.0	5.9	24.7
2022	open	166 (23)	1.8	9.1	4.7	19.2						37 (8)	1.9	6.8	3.5	20.5
2023	open	307 (37)	1.8	8.0	4.7	21.6						56 (18)	2.9	10.1	5.7	19.7

Table 8. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Red Snapper 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	FED_CLOSED	Weight				
		N	Min	Avg	SD	Max
1981	closed	0 (0)	0.0	0.0	0.0	0.0
1982	closed	0 (0)	0.0	0.0	0.0	0.0
1983	closed	0 (0)	0.0	0.0	0.0	0.0
1984	closed	0 (0)	0.0	0.0	0.0	0.0
1985	closed	0 (0)	0.0	0.0	0.0	0.0
1986	closed	0 (0)	0.0	0.0	0.0	0.0
1987	closed	0 (0)	0.0	0.0	0.0	0.0
1988	closed	0 (0)	0.0	0.0	0.0	0.0
1989	closed	0 (0)	0.0	0.0	0.0	0.0
1990	closed	0 (0)	0.0	0.0	0.0	0.0
1991	closed	0 (0)	0.0	0.0	0.0	0.0
1992	closed	0 (0)	0.0	0.0	0.0	0.0
1993	closed	0 (0)	0.0	0.0	0.0	0.0
1994	closed	0 (0)	0.0	0.0	0.0	0.0
1995	closed	0 (0)	0.0	0.0	0.0	0.0
1996	closed	0 (0)	0.0	0.0	0.0	0.0
1997	closed	156 (19)	1.6	4.0	2.4	20.4
1998	closed	706 (68)	1.8	3.3	1.5	11.7
1999	closed	969 (141)	1.0	4.1	2.8	25.9
2000	closed	637 (38)	1.0	5.6	4.3	50.3
2001	closed	139 (20)	1.4	4.7	3.1	24.5
2002	closed	209 (16)	1.8	5.4	3.6	24.6
2003	closed	55 (11)	1.9	3.8	3.0	17.6
2004	closed	400 (48)	1.6	3.5	1.6	12.5
2005	closed	279 (38)	1.7	3.5	1.8	16.8
2006	closed	198 (23)	1.7	3.6	1.9	14.0
2007	closed	187 (19)	1.8	3.1	1.2	7.7
2008	closed	1,978 (281)	1.5	3.8	1.9	16.6
2009	closed	20 (10)	2.2	5.5	2.9	11.9
2010	closed	20 (7)	2.3	5.8	3.1	13.3
2011	closed	10 (9)	3.0	7.2	3.2	12.5

Year	FED_CLOSED	Weight				
		N	Min	Avg	SD	Max
2012	closed	30 (15)	2.6	6.5	3.3	14.6
2013	closed	90 (26)	2.0	5.5	3.1	13.6
2014	closed	676 (190)	1.6	5.3	3.7	20.5
2015	closed	473 (142)	0.4	5.4	3.9	21.4
2016	closed	894 (275)	0.9	5.7	3.8	22.4
2017	closed	1,104 (348)	0.4	5.8	4.3	22.0
2018	closed	9 (4)	1.1	5.8	5.2	14.8
2019	closed	70 (16)	1.5	4.7	3.3	18.6
2020	closed	264 (60)	0.8	5.2	3.7	21.8
2021	closed	165 (42)	1.4	5.4	4.0	23.1
2022	closed	100 (22)	1.4	6.3	5.1	23.1
2023	closed	107 (33)	1.2	4.3	3.7	22.3
1981	open	561 (97)	0.2	2.7	3.2	22.0
1982	open	891 (181)	0.2	2.0	1.8	15.7
1983	open	2,298 (421)	0.2	1.9	2.3	35.0
1984	open	960 (201)	0.2	3.6	5.1	50.0
1985	open	648 (165)	0.2	2.5	2.6	19.7
1986	open	1,734 (389)	0.2	2.9	3.0	27.9
1987	open	1,542 (256)	0.2	2.7	2.8	26.1
1988	open	218 (57)	0.3	2.9	2.1	10.8
1989	open	697 (148)	0.5	3.0	3.3	22.7
1990	open	607 (128)	0.7	2.9	3.0	25.5
1991	open	1,854 (254)	0.8	3.3	3.2	35.2
1992	open	3,317 (409)	0.4	3.4	2.9	38.0
1993	open	1,954 (317)	0.6	3.7	2.7	27.0
1994	open	1,634 (293)	0.6	4.1	3.5	29.0
1995	open	1,097 (210)	1.0	4.0	3.2	21.8
1996	open	1,147 (229)	0.3	4.8	3.9	31.2
1997	open	2,617 (400)	0.9	5.5	4.0	43.9
1998	open	4,180 (449)	0.3	4.3	2.9	32.0
1999	open	9,013 (752)	0.2	5.9	4.6	52.5
2000	open	9,652 (896)	0.6	4.6	3.3	34.9
2001	open	8,056 (691)	0.7	4.8	3.6	36.1
2002	open	9,700 (754)	1.0	4.6	3.4	40.6
2003	open	8,956 (823)	1.1	4.8	3.8	41.1
2004	open	8,450 (953)	1.1	3.5	2.3	30.4

Year	FED_CLOSED	Weight				
		N	Min	Avg	SD	Max
2005	open	7,184 (817)	1.3	3.4	2.3	23.8
2006	open	6,434 (697)	0.6	3.2	2.1	28.1
2007	open	7,043 (763)	0.7	3.2	1.7	25.9
2008	open	1,508 (250)	1.7	4.2	2.3	21.1
2009	open	2,124 (375)	1.9	5.4	2.9	24.3
2010	open	1,904 (293)	1.1	5.4	3.0	27.0
2011	open	1,999 (315)	1.1	6.2	3.3	27.3
2012	open	2,336 (378)	0.6	7.1	3.9	25.4
2013	open	1,765 (378)	1.2	7.7	4.4	29.3
2014	open	956 (168)	2.0	8.0	4.5	22.0
2015	open	1,814 (352)	1.5	7.0	4.3	25.8
2016	open	2,045 (409)	1.6	7.5	4.5	31.9
2017	open	1,838 (374)	0.4	6.7	4.5	25.4
2018	open	2,819 (579)	1.8	6.6	4.3	25.4
2019	open	3,486 (704)	1.2	6.3	4.1	25.4
2020	open	2,724 (586)	0.8	6.3	4.4	29.8
2021	open	3,357 (695)	1.3	5.7	4.4	25.9
2022	open	3,028 (586)	1.3	6.9	5.7	32.0
2023	open	4,611 (833)	1.7	5.7	4.8	29.2

Table 9. Summary of weight measurements (pounds whole weight) from Red Snapper intercepted by the LA BIO sampling program by mode and year. Summaries include the number of fish weighed by LDWF and, in parentheses, the number of angler trips from which those fish were measured (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights.

Year	FED_CLOSED	Cbt					Priv					Total				
		N	Min	Avg	SD	Max	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2014	closed	64 (9)	2.6	9.4	3.8	22.6	179 (33)	2.1	7.6	4.2	17.6	243 (42)	2.1	8.1	4.1	22.6
2015	closed	87 (11)	2.4	8.5	3.4	17.2	214 (32)	2.0	6.9	3.7	19.4	301 (43)	2.0	7.4	3.7	19.4
2016	closed	73 (11)	2.5	7.1	3.1	16.2	224 (29)	2.1	7.3	3.4	15.7	297 (40)	2.1	7.2	3.3	16.2
2017	closed	368 (39)	2.0	7.0	3.4	23.0	209 (36)	2.4	8.3	3.6	21.8	577 (75)	2.0	7.5	3.5	23.0
2018	closed	22 (4)	3.1	8.3	2.0	11.5	0 (0)	0.0	0.0	0.0	0.0	22 (4)	3.1	8.3	2.0	11.5
2019	closed	22 (6)	3.5	8.1	4.3	17.2	0 (0)	0.0	0.0	0.0	0.0	22 (6)	3.5	8.1	4.3	17.2
2020	closed	4 (1)	3.8	4.4	0.8	5.5	0 (0)	0.0	0.0	0.0	0.0	4 (1)	3.8	4.4	0.8	5.5
2021	closed	139 (22)	2.0	6.4	3.2	16.5	0 (0)	0.0	0.0	0.0	0.0	139 (22)	2.0	6.4	3.2	16.5
2022	closed	52 (9)	2.2	7.8	5.1	22.0	6 (1)	2.9	12.2	4.7	15.0	58 (10)	2.2	8.3	5.2	22.0
2023	closed	55 (9)	2.2	6.7	4.1	15.9	0 (0)	0.0	0.0	0.0	0.0	55 (9)	2.2	6.7	4.1	15.9
2014	open	188 (19)	2.8	10.2	3.7	17.2	464 (37)	2.2	8.6	3.9	28.1	652 (56)	2.2	9.0	3.9	28.1
2015	open	410 (43)	1.8	9.3	3.4	20.1	345 (40)	2.3	9.0	3.7	20.4	755 (83)	1.8	9.2	3.5	20.4
2016	open	296 (23)	3.2	9.8	3.0	21.2	261 (21)	2.0	8.3	4.1	24.3	557 (44)	2.0	9.1	3.7	24.3
2017	open	337 (33)	2.4	8.7	3.3	28.2	116 (14)	2.1	8.0	3.1	17.4	453 (47)	2.1	8.5	3.2	28.2
2018	open	790 (118)	1.6	9.7	4.0	25.6	440 (71)	2.2	7.9	3.9	22.0	1,230 (189)	1.6	9.0	4.0	25.6
2019	open	426 (54)	2.2	8.8	4.2	25.9	309 (54)	1.6	7.1	4.1	19.8	735 (108)	1.6	8.1	4.2	25.9
2020	open	333 (44)	2.0	9.2	3.9	25.8	410 (53)	1.5	8.2	4.2	18.7	743 (97)	1.5	8.6	4.1	25.8
2021	open	228 (37)	1.7	7.7	4.2	25.4	521 (80)	1.9	6.2	3.9	29.8	749 (117)	1.7	6.7	4.0	29.8
2022	open	164 (23)	1.7	6.6	3.9	20.1	873 (98)	1.7	7.1	4.2	20.3	1,037 (121)	1.7	7.1	4.2	20.3
2023	open	389 (55)	1.7	7.0	4.0	22.0	1,239 (131)	1.1	6.3	4.0	22.3	1,628 (186)	1.1	6.5	4.0	22.3

Table 10.1. Estimated average weights of landed Red Snapper 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 **West** domain (Texas through Louisiana). 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 (MRIP, LABIO 2014+, TPWD).

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
1981	closed												
1982	closed												
1983	closed												
1984	closed												
1985	closed												
1986	closed												
1987	closed												
1988	closed												
1989	closed												
1990	closed												
1991	closed												
1992	closed												
1993	closed												
1994	closed												
1995	closed												
1996	closed												
1997	closed							3.99	0.00	1 (6)	3.99	0.00	1 (6)
1998	closed							4.81	0.00	1 (2)	4.81	0.00	1 (2)
1999	closed				4.47	0.00	2 (12)	2.82	0.21	30 (135)	2.87	0.20	32 (147)
2000	closed				0.00	0.00	1 (6)	3.71	0.02	2 (9)	3.71	0.02	3 (15)
2001	closed							3.13	0.14	15 (79)	3.13	0.14	15 (79)
2002	closed							4.63	0.20	15 (59)	4.63	0.20	15 (59)
2003	closed							3.54	0.18	10 (38)	3.54	0.18	10 (38)
2004	closed							0.00	0.00	1 (6)	3.59	0.20	14 (68)
2005	closed							3.78	0.18	4 (20)	4.39	0.28	18 (88)
2006	closed										3.65	0.15	15 (71)
2007	closed										3.86	0.15	12 (69)
2008	closed							4.43	0.33	11 (49)	5.27	0.19	64 (260)
2009	closed							5.65	0.00	4 (24)	6.02	0.15	52 (232)

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2010	closed				7.20	0.23	5 (26)	5.46	0.19	30 (134)	5.58	0.20	35 (160)
2011	closed				6.51	0.27	4 (17)	4.46	0.18	61 (267)	4.49	0.18	65 (284)
2012	closed				7.76	0.10	7 (33)	4.07	0.18	57 (229)	4.11	0.17	64 (262)
2013	closed				4.88	0.12	13 (66)	4.76	0.18	96 (416)	4.76	0.17	109 (482)
2014	closed				6.61	0.19	28 (173)	6.12	0.20	131 (647)	6.13	0.20	159 (820)
2015	closed				7.33	0.16	37 (235)	6.24	0.16	184 (929)	6.27	0.16	221 (1,164)
2016	closed				7.93	0.17	27 (158)	6.61	0.18	131 (641)	6.66	0.17	158 (799)
2017	closed				7.57	0.16	56 (457)	6.50	0.12	278 (1,360)	6.58	0.13	334 (1,817)
2018	closed				6.82	0.15	15 (65)	6.44	0.25	71 (293)	6.45	0.24	86 (358)
2019	closed				6.72	0.27	11 (52)	5.30	0.26	77 (314)	5.33	0.26	88 (366)
2020	closed				7.58	0.36	12 (60)	7.08	0.18	104 (407)	7.08	0.21	116 (467)
2021	closed				7.31	0.28	32 (185)	6.26	0.25	63 (238)	6.32	0.26	95 (423)
2022	closed				6.30	0.33	22 (116)	8.48	0.19	44 (181)	8.26	0.24	66 (297)
2023	closed				7.33	0.33	15 (80)	4.92	0.23	71 (294)	5.06	0.26	86 (374)
1981	open	4.79	0.30	5 (30)	3.28	0.34	16 (84)	2.22	0.19	14 (94)	2.31	0.30	35 (208)
1982	open	0.99	0.08	16 (153)	1.64	0.15	3 (5)	2.04	0.50	33 (171)	1.97	0.48	52 (329)
1983	open	1.76	0.14	55 (494)	2.17	0.27	97 (652)	1.53	0.58	103 (493)	1.60	0.36	255 (1,639)
1984	open	1.54	0.00	4 (26)	4.62	0.15	82 (512)	2.10	0.61	105 (448)	2.88	0.33	191 (986)
1985	open	1.55	0.13	19 (75)	6.08	0.45	9 (155)	1.30	0.28	108 (648)	2.82	0.36	136 (878)
1986	open				1.85	0.40	70 (607)	1.63	0.37	97 (468)	1.64	0.39	167 (1,075)
1987	open				2.30	0.19	33 (364)	1.56	0.23	99 (456)	1.64	0.22	132 (820)
1988	open				2.16	0.00	6 (30)	1.72	0.38	98 (423)	1.73	0.34	104 (453)
1989	open				1.96	0.05	9 (43)	2.83	0.29	87 (346)	2.74	0.27	96 (389)
1990	open				2.90	0.11	23 (111)	1.51	0.33	100 (371)	1.60	0.27	123 (482)
1991	open				3.84	0.25	55 (488)	2.07	0.30	105 (456)	2.42	0.28	160 (944)
1992	open				3.56	0.22	64 (515)	2.63	0.26	164 (706)	2.78	0.25	228 (1,221)
1993	open				3.55	0.31	34 (234)	3.68	0.17	187 (859)	3.67	0.22	221 (1,093)
1994	open				5.10	0.31	44 (279)	3.42	0.20	248 (1,160)	3.49	0.24	292 (1,439)
1995	open				5.08	0.28	39 (276)	4.04	0.16	412 (1,918)	4.09	0.18	451 (2,194)
1996	open				6.18	0.21	37 (256)	4.00	0.14	334 (1,467)	4.11	0.16	371 (1,723)
1997	open				5.93	0.19	42 (234)	3.86	0.13	321 (1,413)	3.99	0.15	363 (1,647)
1998	open				5.72	0.15	44 (376)	6.31	0.13	277 (1,213)	6.26	0.13	321 (1,589)
1999	open				6.39	0.32	23 (137)	4.66	0.21	170 (676)	4.81	0.23	193 (813)
2000	open				5.82	0.29	36 (234)	4.82	0.19	242 (1,030)	4.85	0.23	278 (1,264)
2001	open				4.95	0.20	33 (150)	3.75	0.14	188 (786)	3.80	0.15	221 (936)
2002	open				5.15	0.12	59 (450)	3.78	0.15	199 (852)	3.95	0.14	258 (1,302)

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2003	open				5.82	0.11	63 (558)	3.40	0.12	202 (857)	3.73	0.12	265 (1,415)
2004	open				3.72	0.20	63 (578)	3.19	0.12	191 (783)	3.30	0.15	254 (1,361)
2005	open				5.23	0.15	78 (473)	3.37	0.14	227 (1,017)	3.62	0.15	305 (1,490)
2006	open				3.79	0.14	85 (892)	3.27	0.11	326 (1,308)	3.34	0.12	411 (2,200)
2007	open				3.55	0.12	83 (866)	3.68	0.10	227 (944)	3.66	0.10	310 (1,810)
2008	open				6.34	0.15	30 (191)	4.28	0.09	127 (552)	4.44	0.12	157 (743)
2009	open				7.04	0.13	32 (224)	5.68	0.09	166 (763)	5.79	0.10	198 (987)
2010	open				5.57	0.30	10 (60)	5.89	0.10	86 (425)	5.89	0.14	96 (485)
2011	open				8.57	0.20	16 (93)	6.60	0.09	116 (566)	6.66	0.12	132 (659)
2012	open				10.04	0.11	32 (212)	6.14	0.11	107 (473)	6.48	0.11	139 (685)
2013	open				10.64	0.15	20 (111)	6.04	0.10	135 (694)	6.30	0.12	155 (805)
2014	open				8.49	0.10	26 (234)	7.85	0.08	68 (631)	7.87	0.09	94 (865)
2015	open				8.33	0.09	70 (561)	6.95	0.05	121 (774)	7.04	0.07	191 (1,335)
2016	open				9.14	0.09	49 (439)	7.60	0.09	83 (580)	7.80	0.09	132 (1,019)
2017	open				8.25	0.10	72 (554)	6.35	0.10	52 (311)	6.45	0.10	124 (865)
2018	open				9.07	0.07	157 (1,010)	6.84	0.06	324 (1,742)	6.94	0.07	481 (2,752)
2019	open				8.50	0.11	87 (615)	6.37	0.07	357 (1,877)	6.43	0.08	444 (2,492)
2020	open				9.21	0.09	94 (632)	7.18	0.07	263 (1,548)	7.26	0.08	357 (2,180)
2021	open				8.01	0.12	102 (603)	6.60	0.09	340 (1,782)	6.66	0.10	442 (2,385)
2022	open				7.77	0.11	92 (561)	6.29	0.11	326 (2,007)	6.36	0.11	418 (2,568)
2023	open				7.26	0.12	114 (726)	6.04	0.10	419 (2,688)	6.11	0.11	533 (3,414)

Table 10.2. Estimated average weights of landed Red Snapper 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 **Central** domain (Mississippi through the Florida panhandle). 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 (MRIP, LABIO 2014+, TPWD).

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
1981	closed												
1982	closed												
1983	closed												
1984	closed												
1985	closed												
1986	closed												
1987	closed												
1988	closed												
1989	closed												
1990	closed												
1991	closed												
1992	closed												
1993	closed												
1994	closed												
1995	closed												
1996	closed												
1997	closed	3.33	0.11	17 (151)	3.60	0.00	1 (4)	3.39	0.11	18 (155)			
1998	closed	3.16	0.06	60 (677)	3.56	0.28	8 (29)	3.39	0.12	68 (706)			
1999	closed	4.21	0.10	131 (934)	3.87	0.23	7 (21)	4.04	0.11	138 (955)			
2000	closed	4.58	0.10	33 (619)	3.84	0.09	3 (15)	3.94	0.10	36 (634)			
2001	closed	6.49	0.04	6 (95)	4.86	0.07	11 (41)	4.88	0.06	17 (136)			
2002	closed	5.64	0.09	10 (189)	6.54	0.00	2 (8)	6.20	0.09	12 (197)			
2003	closed	3.89	0.28	6 (49)	3.68	0.01	4 (5)	3.71	0.22	10 (54)			
2004	closed	3.54	0.04	43 (391)	4.95	0.00	1 (2)	3.71	0.04	44 (393)			
2005	closed	3.64	0.07	20 (230)	3.39	0.22	6 (18)	3.40	0.13	26 (248)			
2006	closed	3.31	0.14	17 (175)	4.11	0.19	2 (13)	3.93	0.15	19 (188)			
2007	closed	3.22	0.05	11 (154)	3.35	0.13	7 (32)	3.33	0.10	18 (186)			
2008	closed	3.79	0.07	220 (1,804)	3.98	0.12	54 (154)	3.92	0.08	274 (1,958)			
2009	closed	5.75	0.32	6 (15)	3.73	0.00	3 (4)	3.90	0.26	9 (19)			

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2010	closed				3.98	0.00	1 (1)				3.98	0.00	1 (1)
2011	closed				5.50	0.19	2 (3)	4.95	0.10	6 (6)	4.95	0.12	8 (9)
2012	closed				7.51	0.12	13 (26)	6.41	0.00	1 (3)	6.52	0.12	14 (29)
2013	closed							4.56	0.19	17 (56)	4.56	0.19	17 (56)
2014	closed				4.80	0.18	44 (229)	5.65	0.12	143 (443)	5.61	0.13	187 (672)
2015	closed				6.21	0.21	16 (65)	5.13	0.17	126 (408)	5.15	0.18	142 (473)
2016	closed				6.52	0.15	27 (118)	5.43	0.14	246 (770)	5.44	0.14	273 (888)
2017	closed				3.70	0.22	27 (108)	5.95	0.12	302 (939)	5.90	0.13	329 (1,047)
2018	closed				7.47	0.00	2 (7)	4.29	0.00	2 (2)	5.10	0.00	4 (9)
2019	closed				5.06	0.39	8 (57)	5.75	0.08	8 (13)	5.52	0.31	16 (70)
2020	closed				5.55	0.20	16 (66)	4.22	0.10	44 (198)	4.40	0.14	60 (264)
2021	closed				4.72	0.17	38 (161)	5.96	0.00	4 (4)	5.01	0.16	42 (165)
2022	closed				5.18	0.31	18 (83)	5.94	0.48	4 (17)	5.87	0.35	22 (100)
2023	closed				4.55	0.23	23 (78)	5.97	0.27	7 (18)	5.59	0.24	30 (96)
1981	open	2.39	0.22	17 (53)	2.04	0.12	16 (126)	1.75	0.27	16 (120)	1.77	0.19	49 (299)
1982	open	1.28	0.03	63 (268)	1.76	0.46	32 (159)	2.27	0.40	31 (129)	1.75	0.30	126 (556)
1983	open	1.99	0.18	109 (444)	1.55	0.17	49 (376)	1.38	0.32	20 (86)	1.59	0.19	178 (906)
1984	open	2.60	0.32	25 (98)	1.79	0.19	36 (159)	1.15	0.25	12 (47)	1.68	0.27	73 (304)
1985	open	2.29	0.13	42 (136)	2.37	0.30	57 (251)	2.54	0.39	12 (39)	2.46	0.26	111 (426)
1986	open				3.59	0.16	230 (849)	3.94	0.32	23 (55)	3.71	0.18	253 (904)
1987	open				3.03	0.15	136 (885)	2.50	0.25	77 (270)	2.75	0.18	213 (1,155)
1988	open				3.10	0.19	35 (161)	2.77	0.21	11 (33)	2.93	0.19	46 (194)
1989	open				2.88	0.37	96 (503)	3.12	0.46	21 (55)	3.06	0.38	117 (558)
1990	open				5.29	0.29	56 (314)	2.37	0.21	37 (139)	3.22	0.28	93 (453)
1991	open				2.93	0.22	135 (1,038)	2.98	0.25	61 (326)	2.97	0.23	196 (1,364)
1992	open				3.03	0.28	205 (1,973)	2.95	0.12	120 (770)	2.97	0.25	325 (2,743)
1993	open				3.41	0.12	177 (1,190)	3.91	0.20	87 (439)	3.73	0.16	264 (1,629)
1994	open				3.99	0.12	156 (881)	4.35	0.18	76 (394)	4.25	0.14	232 (1,275)
1995	open				3.19	0.14	94 (520)	4.03	0.25	65 (240)	3.77	0.21	159 (760)
1996	open				4.33	0.17	117 (598)	3.69	0.26	68 (275)	3.98	0.20	185 (873)
1997	open				4.97	0.17	256 (1,959)	4.68	0.20	89 (387)	4.80	0.17	345 (2,346)
1998	open				4.12	0.07	342 (3,575)	4.23	0.24	56 (234)	4.16	0.11	398 (3,809)
1999	open				4.54	0.05	526 (7,845)	5.27	0.21	175 (917)	5.04	0.14	701 (8,762)
2000	open				4.64	0.05	727 (8,880)	4.57	0.14	123 (544)	4.59	0.08	850 (9,424)
2001	open				4.57	0.06	525 (7,365)	6.11	0.18	138 (601)	5.71	0.12	663 (7,966)
2002	open				4.61	0.07	542 (8,454)	4.83	0.16	165 (909)	4.78	0.11	707 (9,363)

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2003	open				4.76	0.15	597 (7,827)	4.69	0.18	168 (626)	4.71	0.16	765 (8,453)
2004	open				3.50	0.04	736 (7,311)	3.75	0.13	167 (657)	3.69	0.07	903 (7,968)
2005	open				3.37	0.04	624 (6,384)	4.48	0.20	115 (343)	4.13	0.11	739 (6,727)
2006	open				3.19	0.04	500 (5,211)	3.44	0.16	112 (377)	3.37	0.09	612 (5,588)
2007	open				3.18	0.05	526 (5,721)	3.23	0.18	156 (546)	3.22	0.11	682 (6,267)
2008	open				3.93	0.06	121 (989)	4.76	0.11	87 (315)	4.60	0.09	208 (1,304)
2009	open				5.37	0.06	181 (1,415)	4.27	0.10	140 (470)	4.44	0.08	321 (1,885)
2010	open				5.45	0.09	196 (1,544)	5.16	0.10	93 (339)	5.18	0.09	289 (1,883)
2011	open				6.22	0.07	151 (1,352)	6.48	0.10	144 (557)	6.45	0.09	295 (1,909)
2012	open				6.74	0.08	186 (1,555)	7.86	0.09	148 (551)	7.73	0.08	334 (2,106)
2013	open				6.84	0.12	83 (657)	7.02	0.08	250 (866)	7.01	0.09	333 (1,523)
2014	open				8.40	0.07	45 (296)	7.65	0.08	113 (617)	7.67	0.08	158 (913)
2015	open				6.51	0.09	208 (1,274)	7.67	0.07	137 (495)	7.38	0.08	345 (1,769)
2016	open				7.64	0.08	223 (1,420)	7.22	0.08	164 (565)	7.35	0.08	387 (1,985)
2017	open				6.36	0.08	156 (1,039)	6.24	0.13	194 (680)	6.25	0.11	350 (1,719)
2018	open				6.31	0.08	250 (1,600)	6.02	0.08	301 (1,055)	6.05	0.08	551 (2,655)
2019	open				5.95	0.08	243 (1,490)	5.57	0.12	419 (1,803)	5.61	0.11	662 (3,293)
2020	open				5.79	0.07	274 (1,513)	5.64	0.09	296 (1,159)	5.66	0.08	570 (2,672)
2021	open				5.31	0.08	382 (2,090)	6.52	0.13	267 (1,036)	6.36	0.11	649 (3,126)
2022	open				6.57	0.07	278 (1,867)	7.31	0.10	277 (958)	7.18	0.09	555 (2,825)
2023	open				5.68	0.07	606 (3,566)	6.41	0.18	172 (682)	6.24	0.11	778 (4,248)

Table 10.3. Estimated average weights of landed Red Snapper 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 **East** domain (western Florida through the Florida Keys). 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 (MRIP, LABIO 2014+, TPWD).

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
1981	closed												
1982	closed												
1983	closed												
1984	closed												
1985	closed												
1986	closed												
1987	closed												
1988	closed												
1989	closed												
1990	closed												
1991	closed												
1992	closed												
1993	closed												
1994	closed												
1995	closed												
1996	closed												
1997	closed				3.15	0.00	1 (1)				3.15	0.00	1 (1)
1998	closed												
1999	closed				3.50	0.32	3 (14)				3.50	0.32	3 (14)
2000	closed				3.43	0.00	1 (2)	3.84	0.00	1 (1)	3.84	0.00	2 (3)
2001	closed				3.46	0.61	3 (3)				3.46	0.61	3 (3)
2002	closed				3.30	0.03	2 (9)	3.90	0.08	2 (3)	3.88	0.06	4 (12)
2003	closed				3.26	0.00	1 (1)				3.26	0.00	1 (1)
2004	closed				3.78	0.10	4 (7)				3.78	0.10	4 (7)
2005	closed				3.33	0.11	8 (15)				3.33	0.11	8 (15)
2006	closed				3.56	0.14	3 (9)				3.56	0.14	3 (9)
2007	closed				2.97	0.00	1 (1)				2.97	0.00	1 (1)
2008	closed				3.86	0.11	7 (20)				3.86	0.11	7 (20)
2009	closed							3.79	0.00	1 (1)	3.79	0.00	1 (1)

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2010	closed				6.53	0.22	5 (17)	5.61	0.00	1 (2)	6.03	0.18	6 (19)
2011	closed							4.85	0.00	1 (1)	4.85	0.00	1 (1)
2012	closed							7.07	0.00	1 (1)	7.07	0.00	1 (1)
2013	closed							5.63	0.00	1 (2)	5.63	0.00	1 (2)
2014	closed				4.23	0.00	3 (4)				4.23	0.00	3 (4)
2015	closed							4.67	0.00	2 (6)	4.67	0.00	2 (6)
2016	closed							0.00	0.15	17 (55)	4.49	0.15	19 (57)
2017	closed				4.49	0.00	2 (2)						
2018	closed												
2019	closed												
2020	closed												
2021	closed												
2022	closed												
2023	closed				4.26	0.00	1 (1)	7.90	0.04	2 (10)	7.88	0.02	3 (11)
1981	open	2.58	0.23	5 (7)	2.39	0.59	2 (10)	1.70	0.06	6 (37)	1.75	0.36	13 (54)
1982	open	1.46	0.00	1 (3)				2.46	0.45	2 (3)	2.28	0.48	3 (6)
1983	open	2.80	0.34	64 (92)	1.52	0.00	1 (7)	2.23	0.00	1 (7)	2.21	0.33	66 (106)
1984	open	2.86	0.20	23 (23)	1.98	0.07	3 (32)	2.14	0.38	2 (6)	2.26	0.20	28 (61)
1985	open	3.63	0.33	10 (11)	2.55	0.11	4 (14)	2.83	0.18	8 (14)	2.85	0.29	22 (39)
1986	open				4.66	0.24	28 (70)	2.73	0.14	15 (29)	3.22	0.24	43 (99)
1987	open				2.14	0.43	4 (10)	2.96	0.01	8 (22)	2.94	0.38	12 (32)
1988	open				3.22	0.08	6 (11)	3.41	0.04	4 (8)	3.39	0.06	10 (19)
1989	open				4.27	0.00	1 (8)	2.26	0.01	4 (16)	2.41	0.01	5 (24)
1990	open							3.52	0.00	4 (5)	3.52	0.00	4 (5)
1991	open				2.50	0.00	1 (1)	3.91	0.00	3 (4)	3.91	0.00	4 (5)
1992	open				2.61	0.55	5 (9)	2.80	0.00	2 (2)	2.72	0.55	7 (11)
1993	open												
1994	open				3.56	0.00	1 (1)				3.56	0.00	1 (1)
1995	open							4.68	0.00	1 (1)	4.68	0.00	1 (1)
1996	open				4.22	0.00	1 (2)	2.65	0.09	6 (11)	2.67	0.06	7 (13)
1997	open				5.26	0.15	5 (20)				5.26	0.15	5 (20)
1998	open				2.84	0.14	11 (32)				2.84	0.14	11 (32)
1999	open				3.44	0.21	5 (9)	3.44	0.22	5 (13)	3.44	0.22	10 (22)
2000	open				3.66	0.00	2 (2)				3.66	0.00	2 (2)
2001	open				3.54	0.13	5 (19)				3.54	0.13	5 (19)
2002	open				3.31	0.00	2 (5)	4.00	0.00	1 (2)	3.86	0.00	3 (7)

Year	FED_CLOSED	Hbt			Cbt			Priv			Total		
		WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2003	open				3.31	0.08	9 (55)	3.66	0.06	2 (3)	3.53	0.08	11 (58)
2004	open				3.48	0.00	3 (4)	3.16	0.00	2 (10)	3.17	0.00	5 (14)
2005	open				3.28	0.05	5 (25)	4.82	0.29	10 (37)	4.79	0.27	15 (62)
2006	open				3.17	0.00	3 (18)	3.20	0.06	4 (11)	3.19	0.04	7 (29)
2007	open				3.04	0.00	2 (14)	3.45	0.22	7 (16)	3.44	0.20	9 (30)
2008	open				3.77	0.04	3 (8)	5.15	0.00	1 (6)	4.75	0.03	4 (14)
2009	open				5.54	0.24	3 (5)	3.19	0.02	5 (10)	3.42	0.15	8 (15)
2010	open				6.18	0.00	1 (13)	6.61	0.00	1 (2)	6.34	0.00	2 (15)
2011	open							4.98	0.07	4 (14)	4.98	0.07	4 (14)
2012	open				6.21	0.00	2 (17)	6.43	0.00	2 (8)	6.39	0.00	4 (25)
2013	open				6.14	0.17	4 (28)	7.09	0.00	1 (1)	6.76	0.14	5 (29)
2014	open				7.58	0.04	3 (29)	6.80	0.24	7 (14)	7.12	0.17	10 (43)
2015	open				6.01	0.15	6 (40)	7.42	0.00	1 (5)	6.28	0.12	7 (45)
2016	open				7.15	0.12	16 (51)	5.28	0.55	6 (9)	5.85	0.32	22 (60)
2017	open				5.32	0.13	18 (102)	4.51	0.16	6 (17)	4.67	0.14	24 (119)
2018	open				5.72	0.14	18 (118)	4.73	0.09	10 (46)	4.92	0.12	28 (164)
2019	open				5.70	0.11	24 (137)	6.01	0.11	18 (56)	5.97	0.11	42 (193)
2020	open				5.45	0.22	7 (33)	4.62	0.18	9 (19)	4.96	0.20	16 (52)
2021	open				6.08	0.10	38 (206)	6.75	0.31	8 (25)	6.51	0.18	46 (231)
2022	open				6.92	0.12	23 (166)	6.21	0.41	8 (37)	6.37	0.23	31 (203)
2023	open				6.04	0.09	37 (307)	7.66	0.13	18 (56)	7.23	0.10	55 (363)

Table 11.1. Recreational Fishing Effort (in angler trips) for Gulf of Mexico anglers by mode and year from all data sources (MRIP, LACreel 2014+, TPWD) for the **West** domain (Texas through Louisiana). These effort estimates depict all (general) recreational fishing activity in the Gulf of Mexico and are not specific to Red Snapper. Effort from the combined private-shore fishing mode in the LA Creel survey has been added to the private mode.

Year	Cbt	Hbt	Priv	Total
1981	83,168	7,244	3,282,108	3,372,520
1982	78,798	6,887	3,448,692	3,534,377
1983	122,353	8,014	9,357,454	9,487,821
1984	119,360	8,419	9,932,536	10,060,315
1985	124,223	8,093	11,053,240	11,185,556
1986	95,949		10,669,817	10,765,766
1987	117,907		12,707,090	12,824,997
1988	125,860		12,142,861	12,268,721
1989	153,414		11,255,386	11,408,800
1990	138,019		11,495,260	11,633,279
1991	159,484		11,359,400	11,518,884
1992	156,120		12,779,200	12,935,320
1993	167,343		12,941,923	13,109,266
1994	204,199		13,695,849	13,900,048
1995	189,196		13,896,433	14,085,629
1996	189,925		14,338,643	14,528,568
1997	210,156		12,812,819	13,022,975
1998	225,179		13,348,752	13,573,931
1999	231,097		15,634,350	15,865,447
2000	247,426		15,585,234	15,832,660
2001	267,924		14,348,287	14,616,211
2002	232,849		13,685,303	13,918,152
2003	246,990		14,539,211	14,786,201
2004	260,405		14,151,982	14,412,387
2005	228,535		13,166,925	13,395,460
2006	330,102		13,570,306	13,900,408
2007	290,761		13,034,482	13,325,243
2008	296,541		13,159,759	13,456,300
2009	285,253		14,288,807	14,574,060
2010	198,615		14,418,734	14,617,349
2011	257,995		14,802,529	15,060,524
2012	329,426		14,541,340	14,870,766

Year	Cbt	Hbt	Priv	Total
2013	264,864		14,564,002	14,828,866
2014	269,225		13,391,945	13,661,170
2015	304,122		13,254,802	13,558,924
2016	336,690		14,362,410	14,699,100
2017	367,224		13,657,887	14,025,111
2018	482,197		12,947,443	13,429,640
2019	546,507		13,461,778	14,008,285
2020	352,799		15,597,768	15,950,567
2021	406,415		12,632,795	13,039,210
2022	480,646		12,196,594	12,677,240
2023	715,913		13,771,689	14,487,602

Table 11.2. Recreational Fishing Effort (in angler trips) for Gulf of Mexico anglers by mode and year from all data sources (MRIP) for the **Central** domain (Mississippi through the Florida panhandle). These effort estimates depict all (general) recreational fishing activity in the Gulf of Mexico and are not specific to Red Snapper.

Year	Cbt	Hbt	Priv	Total
1981	100,813	43,891	3,152,987	3,297,691
1982	258,200	137,252	2,837,465	3,232,917
1983	193,924	85,454	2,371,474	2,650,852
1984	200,779	97,182	3,634,221	3,932,182
1985	169,617	83,937	5,626,228	5,879,782
1986	233,049		4,881,068	5,114,117
1987	354,826		4,549,524	4,904,350
1988	269,988		4,375,597	4,645,585
1989	298,724		4,342,397	4,641,121
1990	203,569		2,736,932	2,940,501
1991	311,368		2,929,846	3,241,214
1992	248,411		2,717,482	2,965,893
1993	278,841		3,904,041	4,182,882
1994	291,234		4,175,935	4,467,169
1995	321,550		3,531,534	3,853,084
1996	355,761		4,106,273	4,462,034
1997	266,302		3,911,918	4,178,220
1998	271,509		4,076,075	4,347,584
1999	297,159		5,622,320	5,919,479
2000	249,153		5,999,721	6,248,874
2001	237,119		7,111,168	7,348,287
2002	253,721		6,535,509	6,789,230
2003	253,435		7,359,201	7,612,636
2004	275,823		8,659,644	8,935,467
2005	234,442		8,049,871	8,284,313
2006	250,705		9,100,702	9,351,407
2007	280,888		9,690,632	9,971,520
2008	239,033		9,293,163	9,532,196
2009	230,831		8,713,701	8,944,532
2010	125,729		8,715,899	8,841,628
2011	262,264		9,482,632	9,744,896
2012	275,000		10,735,788	11,010,788
2013	279,468		9,025,293	9,304,761

Year	Cbt	Hbt	Priv	Total
2014	284,955		7,535,770	7,820,725
2015	370,346		7,877,969	8,248,315
2016	333,618		8,764,593	9,098,211
2017	336,785		10,137,744	10,474,529
2018	341,321		9,120,022	9,461,343
2019	378,050		8,194,723	8,572,773
2020	365,987		7,790,696	8,156,683
2021	418,338		8,180,930	8,599,268
2022	391,684		9,372,409	9,764,093
2023	434,072		9,088,714	9,522,786

Table 11.3. Recreational Fishing Effort (in angler trips) for Gulf of Mexico anglers by mode and year from all data sources (MRIP) for the **East** domain (western Florida through the Florida Keys). These effort estimates depict all (general) recreational fishing activity in the Gulf of Mexico and are not specific to Red Snapper.

Year	Cbt	Hbt	Priv	Total
1981	205,851	106,202	7,831,685	8,143,738
1982	291,431	116,772	7,673,280	8,081,483
1983	320,524	163,025	9,567,170	10,050,719
1984	280,455	136,610	10,368,065	10,785,130
1985	358,028	185,486	6,675,184	7,218,698
1986	306,934		6,971,520	7,278,454
1987	221,501		8,263,928	8,485,429
1988	165,651		9,950,151	10,115,802
1989	262,506		10,559,047	10,821,553
1990	329,791		12,548,217	12,878,008
1991	264,410		13,535,909	13,800,319
1992	280,064		13,197,651	13,477,715
1993	338,681		13,049,759	13,388,440
1994	330,960		12,616,507	12,947,467
1995	430,644		13,961,044	14,391,688
1996	337,673		13,329,241	13,666,914
1997	390,600		14,809,162	15,199,762
1998	412,702		15,053,774	15,466,476
1999	344,852		14,986,982	15,331,834
2000	383,788		13,800,980	14,184,768
2001	414,969		14,842,138	15,257,107
2002	438,705		14,559,599	14,998,304
2003	359,193		14,904,967	15,264,160
2004	415,559		17,729,380	18,144,939
2005	360,612		16,748,668	17,109,280
2006	376,844		14,120,517	14,497,361
2007	442,659		14,052,639	14,495,298
2008	428,988		16,866,891	17,295,879
2009	411,350		15,025,847	15,437,197
2010	405,290		15,750,729	16,156,019
2011	385,671		15,094,221	15,479,892
2012	510,293		16,327,654	16,837,947
2013	507,462		16,280,391	16,787,853

Year	Cbt	Hbt	Priv	Total
2014	512,429		14,846,796	15,359,225
2015	536,523		12,545,628	13,082,151
2016	599,637		12,861,680	13,461,317
2017	545,357		12,033,494	12,578,851
2018	597,816		11,566,078	12,163,894
2019	762,322		10,222,218	10,984,540
2020	675,641		12,773,897	13,449,538
2021	758,123		11,837,663	12,595,786
2022	749,764		12,555,532	13,305,296
2023	651,427		12,555,729	13,207,156

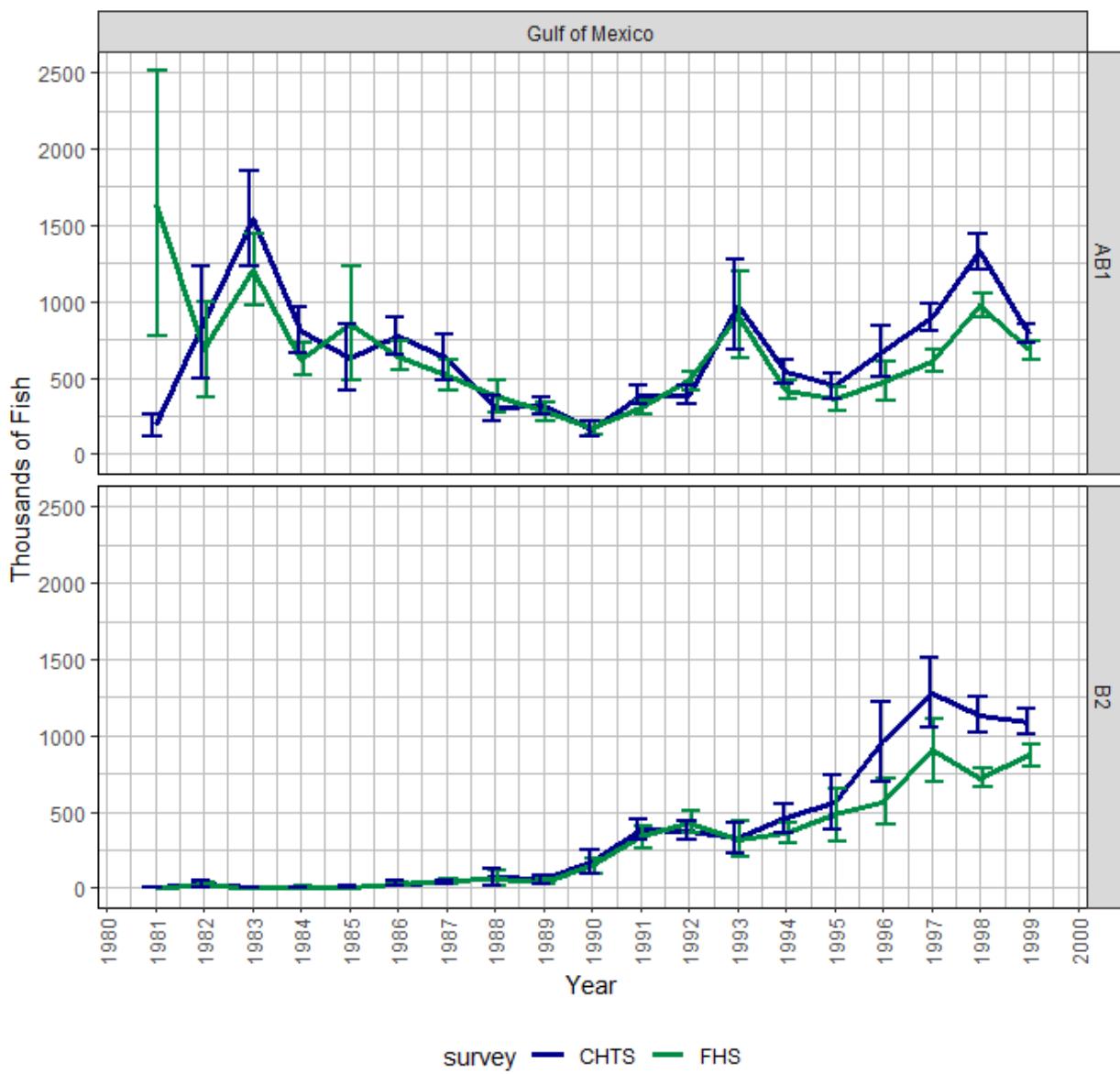


Figure 1. Comparison of MRIP charterboat landings (AB1) and discard (B2) estimates (with standard error intervals shown) for Red Snapper from the Coastal Household Telephone Survey (CHTS) and For-Hire Survey (FHS) from the Gulf of Mexico between 1981 and 1999 (MRIP). The Charterboat calibration approach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

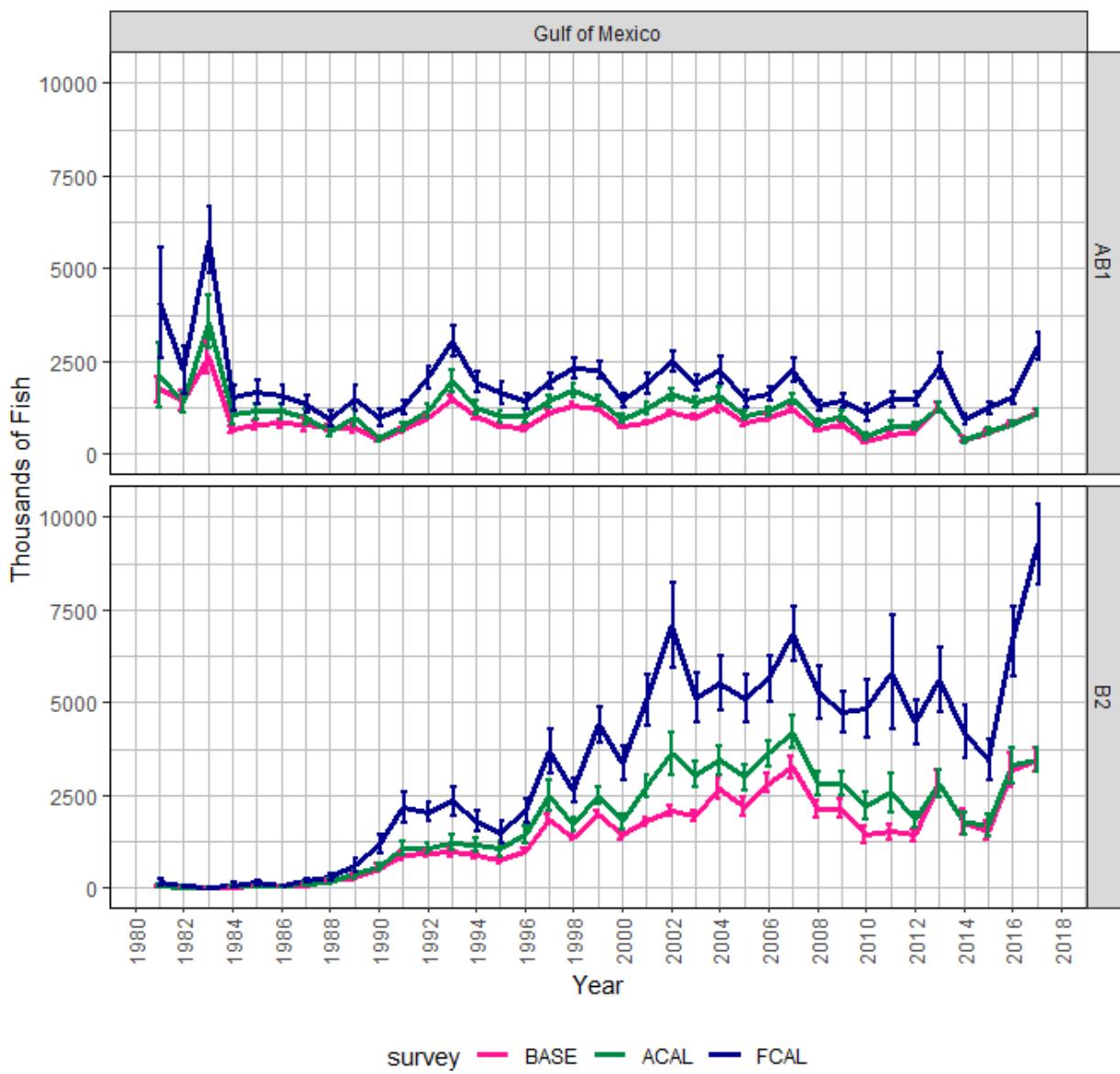


Figure 2. MRIP Base (BASE), APAIS Calibrated (ACAL), and Fully Calibrated APAIS and FES (FCAL) estimates for Red Snapper in the Gulf of Mexico between 1981 and 2017 (NMFS pers comm). The Shore mode is also included as uncertainty estimates for catch across multiple modes are only available when all modes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

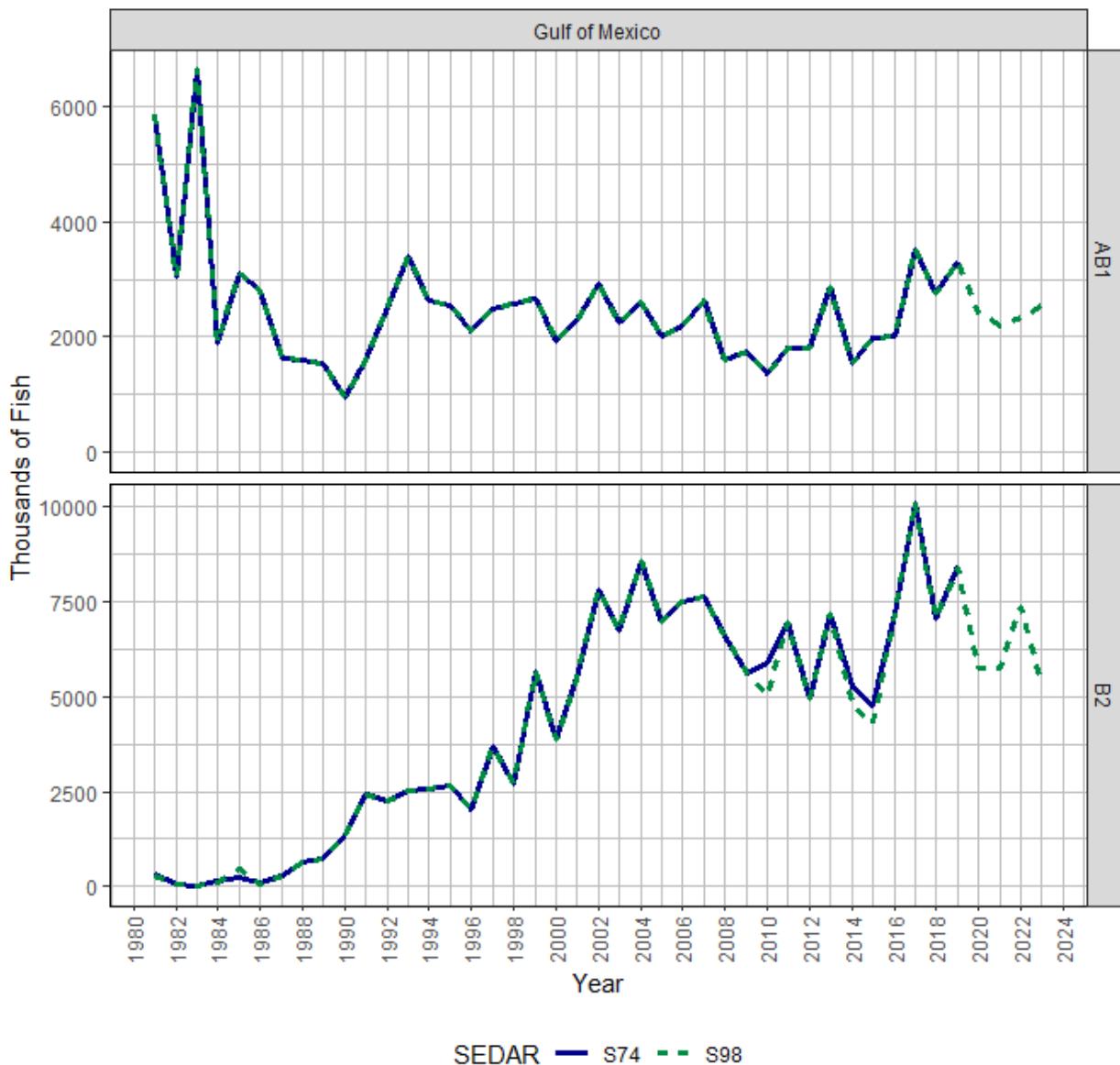


Figure 3. Comparison of total general recreational landings (AB1) and discard estimates (B2) for Gulf of Mexico Red Snapper between SEDAR 98 and SEDAR 74, the terminal years of which are 2023 and 2019 respectively.

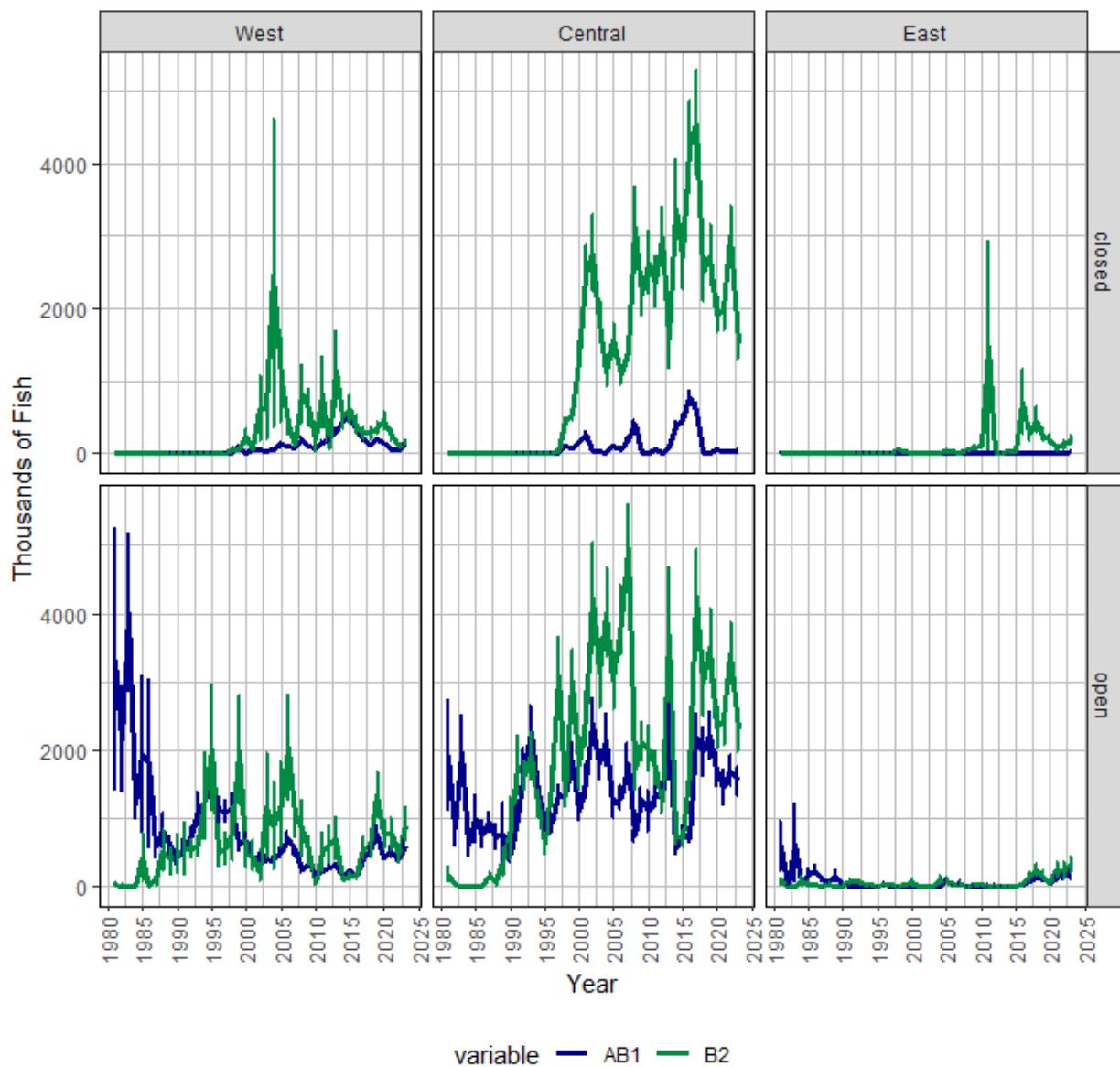


Figure 4. Annual landings (AB1) and discard (B2) estimates with standard error intervals, in thousands of fish, for Gulf of Mexico Red Snapper between 1981 to 2023.

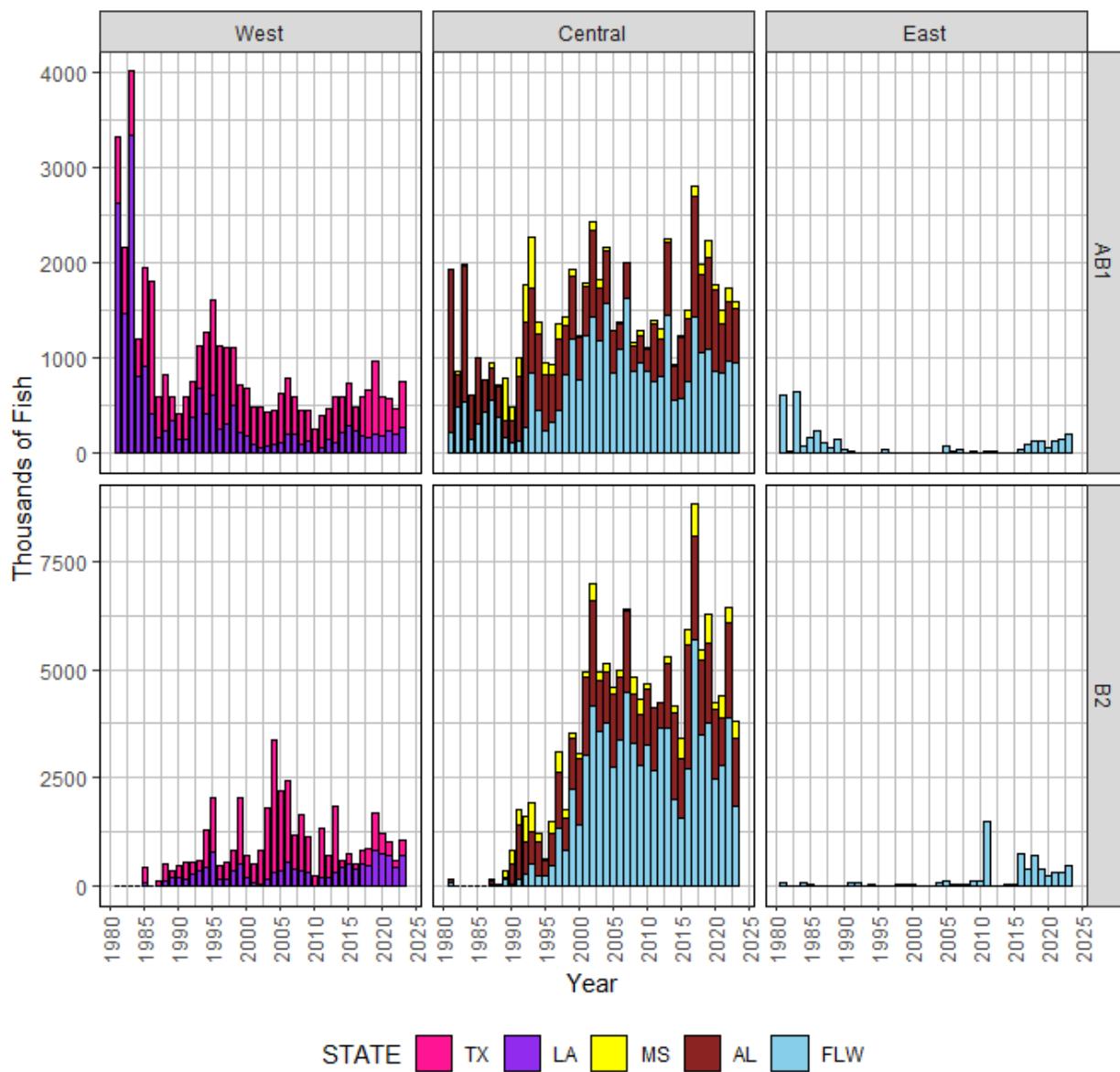


Figure 5a. Annual Red Snapper landings (AB1) and discards (B2), in thousands of fish, by state from 1981 to 2023 from all data sources (MRIP, LACreel 2014+, TPWD).

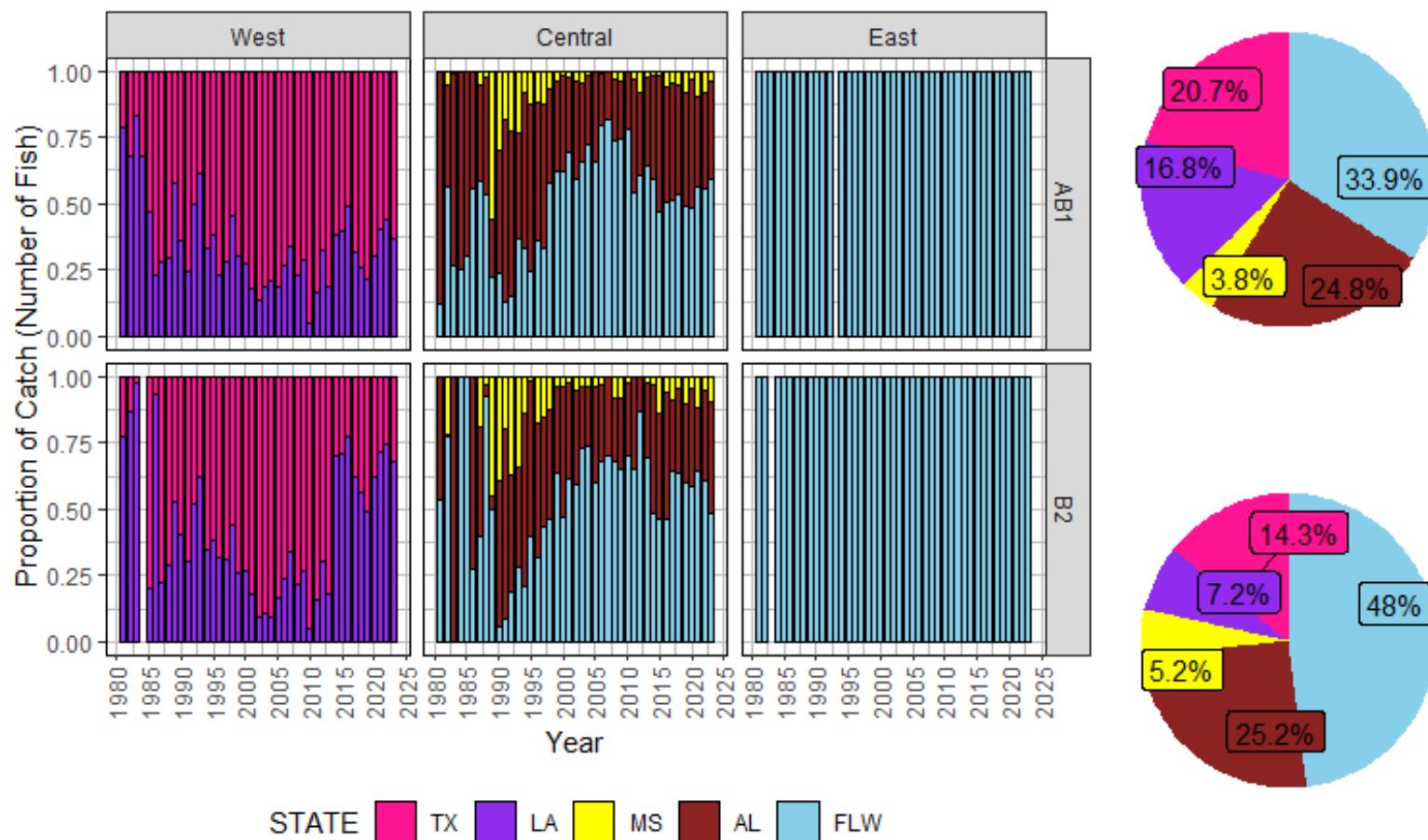


Figure 5b. Proportion of Red Snapper landings (AB1) and discards (B2), in numbers of fish, from each state by year (bar graph) and overall (pie chart) between 1981 and 2023 from all data sources (MRIP, LACreel 2014+, TPWD).

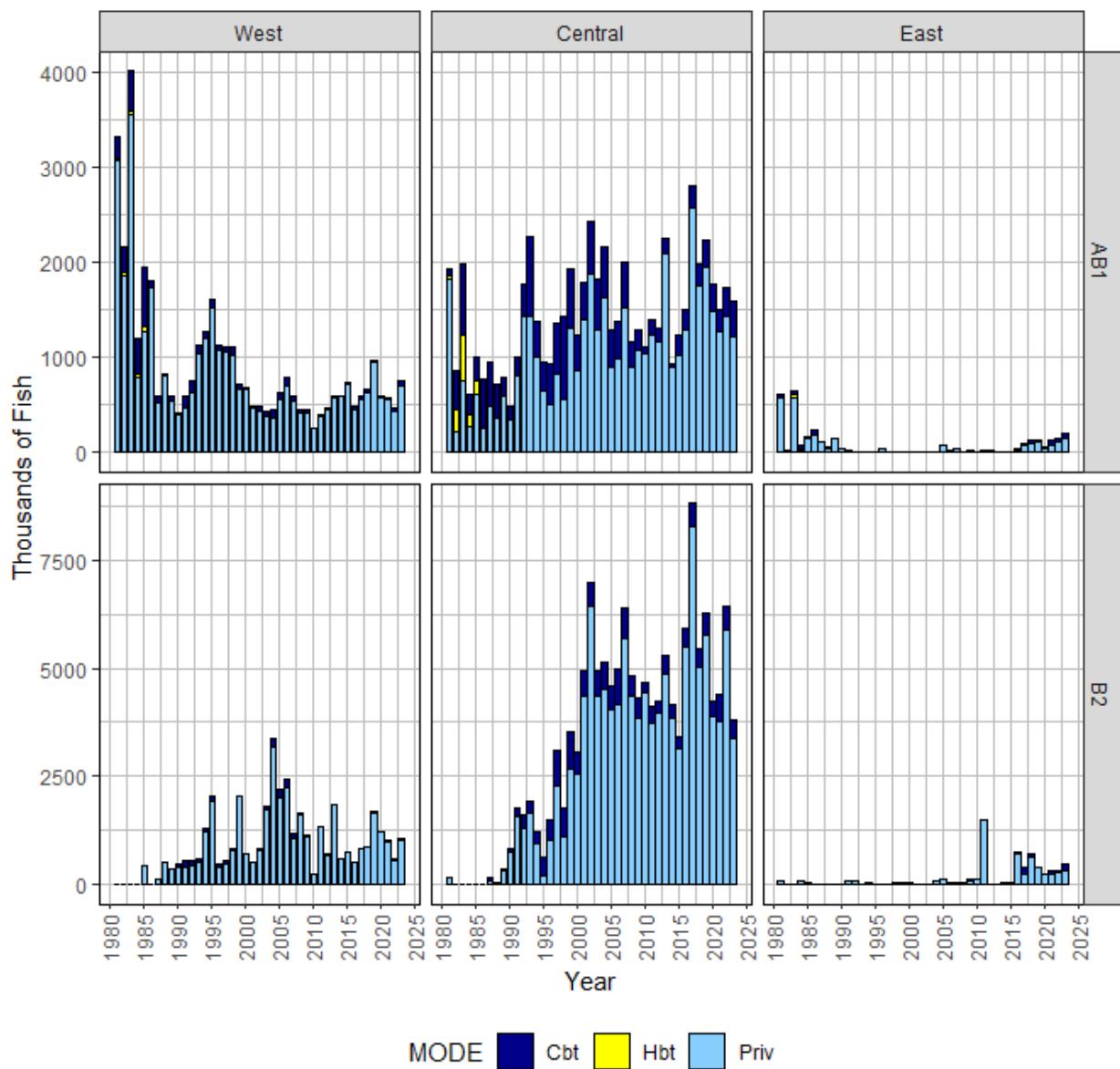


Figure 6a. Annual Red Snapper landings (AB1) and discards (B2), in thousands of fish, by mode from 1981 to 2023 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

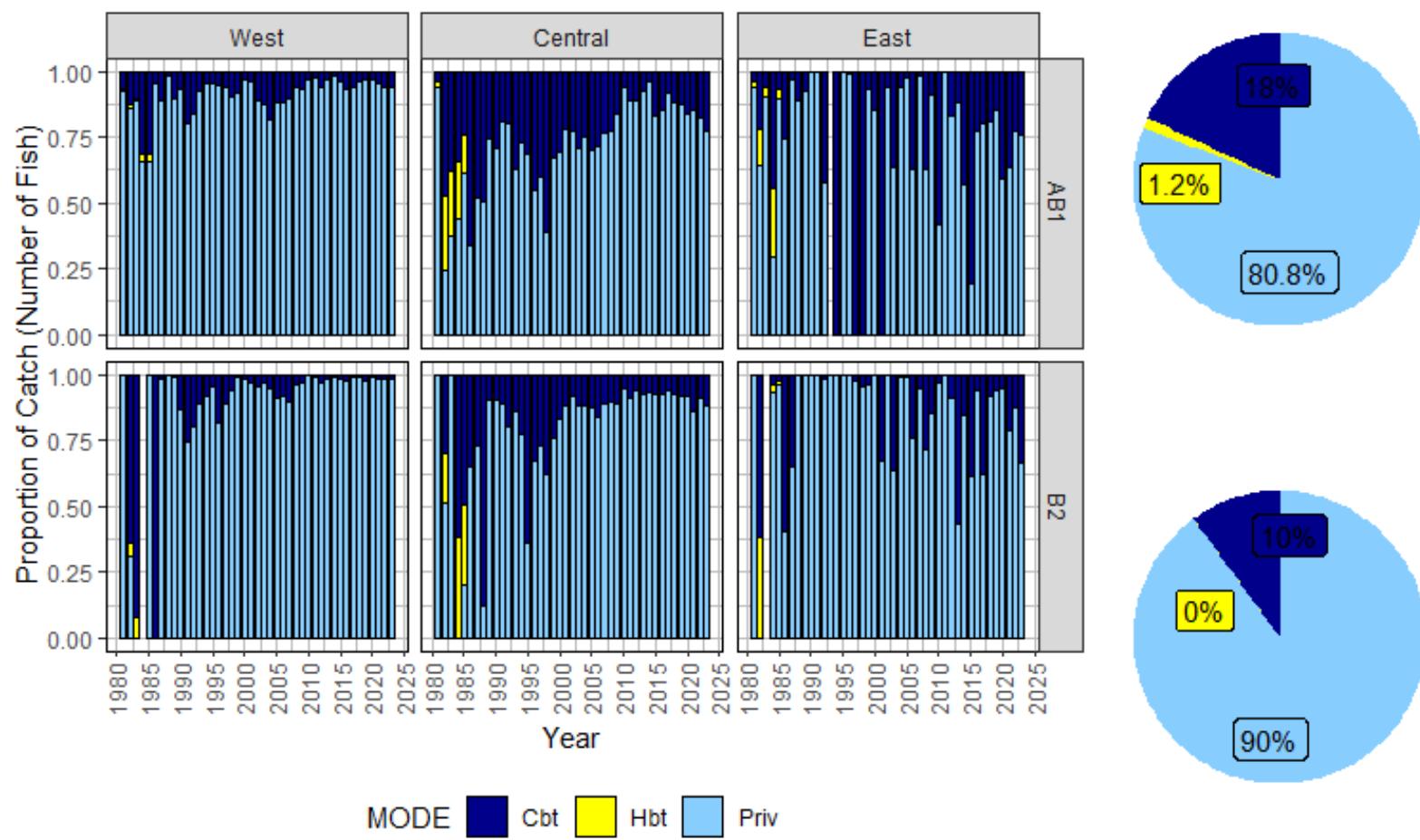


Figure 6b. Proportion of Red Snapper landings (AB1) and discards (B2), in numbers of fish, from each mode by year (bar graph) and overall (pie chart) between 1981 and 2023 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

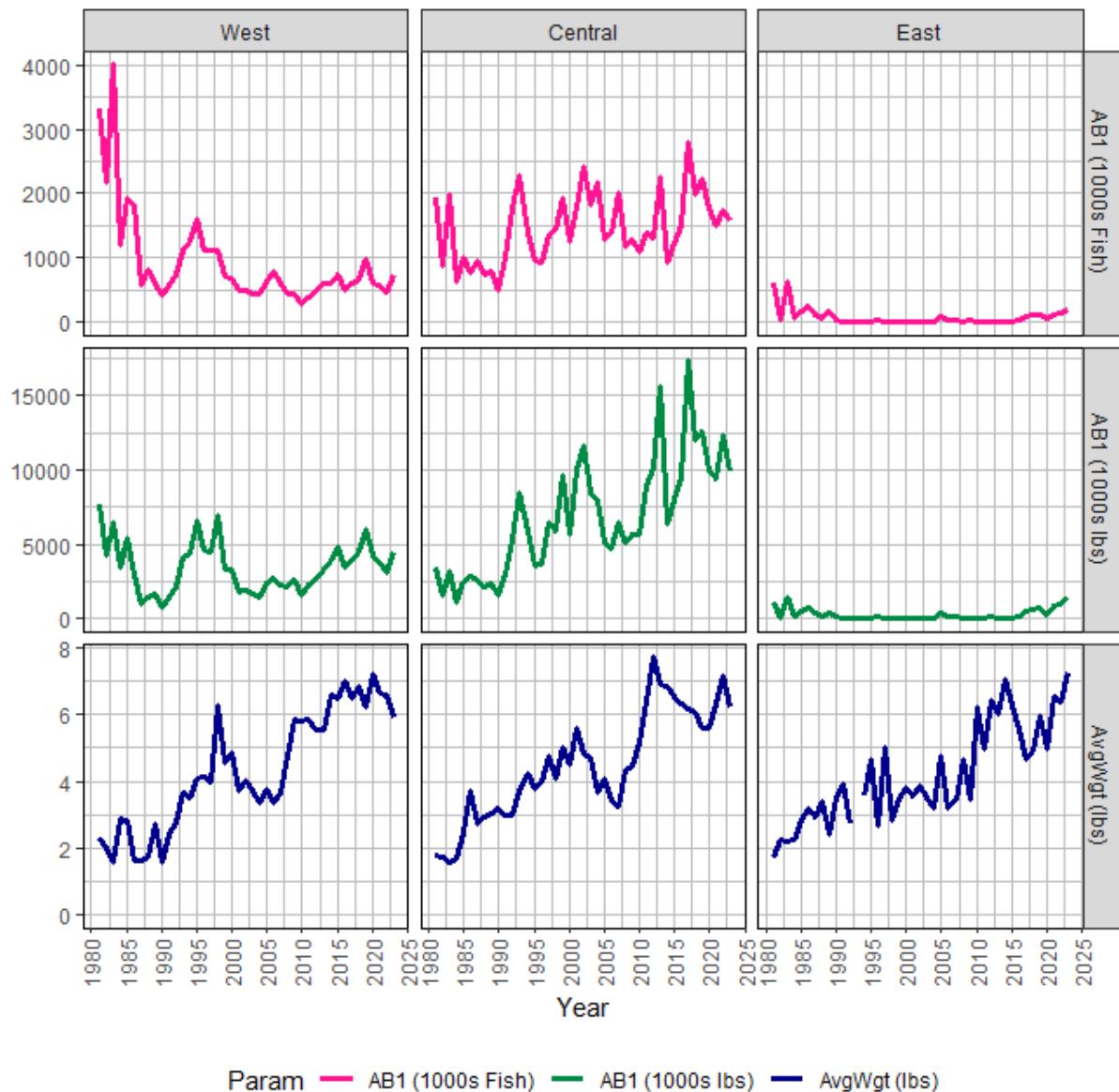


Figure 7. Estimates of annual landings for Red Snapper in the Gulf of Mexico from all data sources (MRIP, LACreel 2014+, TPWD): estimated landings in thousands of fish (top), estimated landings in thousands of pounds whole weight (middle), and average weight of landed fish (estimated lbs/estimated fish)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

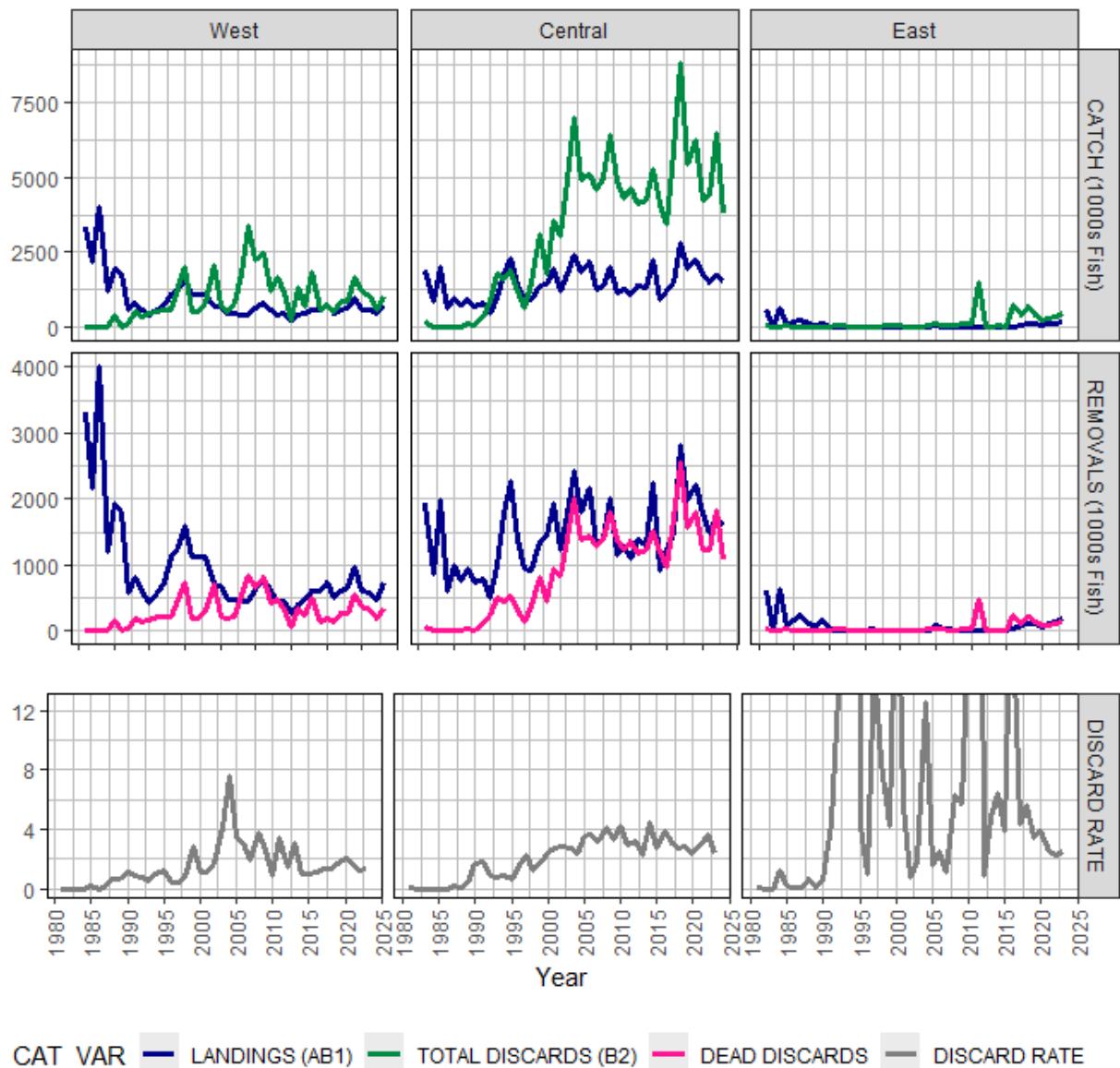


Figure 8. Time series of general recreational landings (AB1) and discards (B2), in thousands of fish (top panel), and the associated discard rate (B2:AB1) (bottom panel) for Gulf of Mexico Red Snapper from all data sources (MRIP, LACreel 2014+, TPWD). Dead discards (middle panel) were calculated by applying the assumed discard mortality rates from the previous assessment.

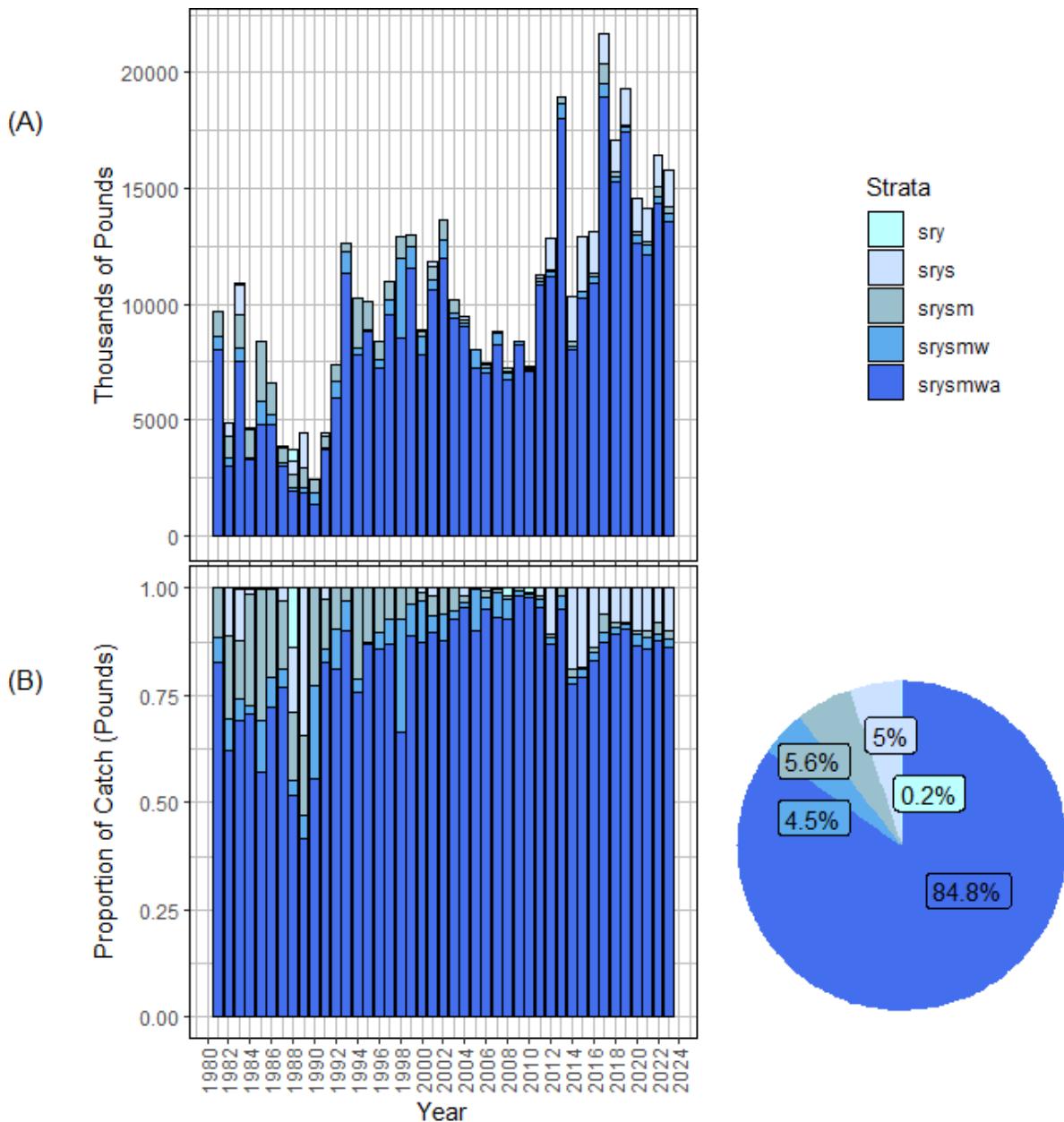


Figure 9. Annual landings estimates of Gulf of Mexico Red Snapper in thousands of pounds whole weight from all data sources (MRIP, LACreel 2014+, TPWD) by hierarchy level, defined by species, region, year, state, mode, wave, and area. Landings are grouped by the strata at which average weights were estimated. As an example, (sryst) 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).

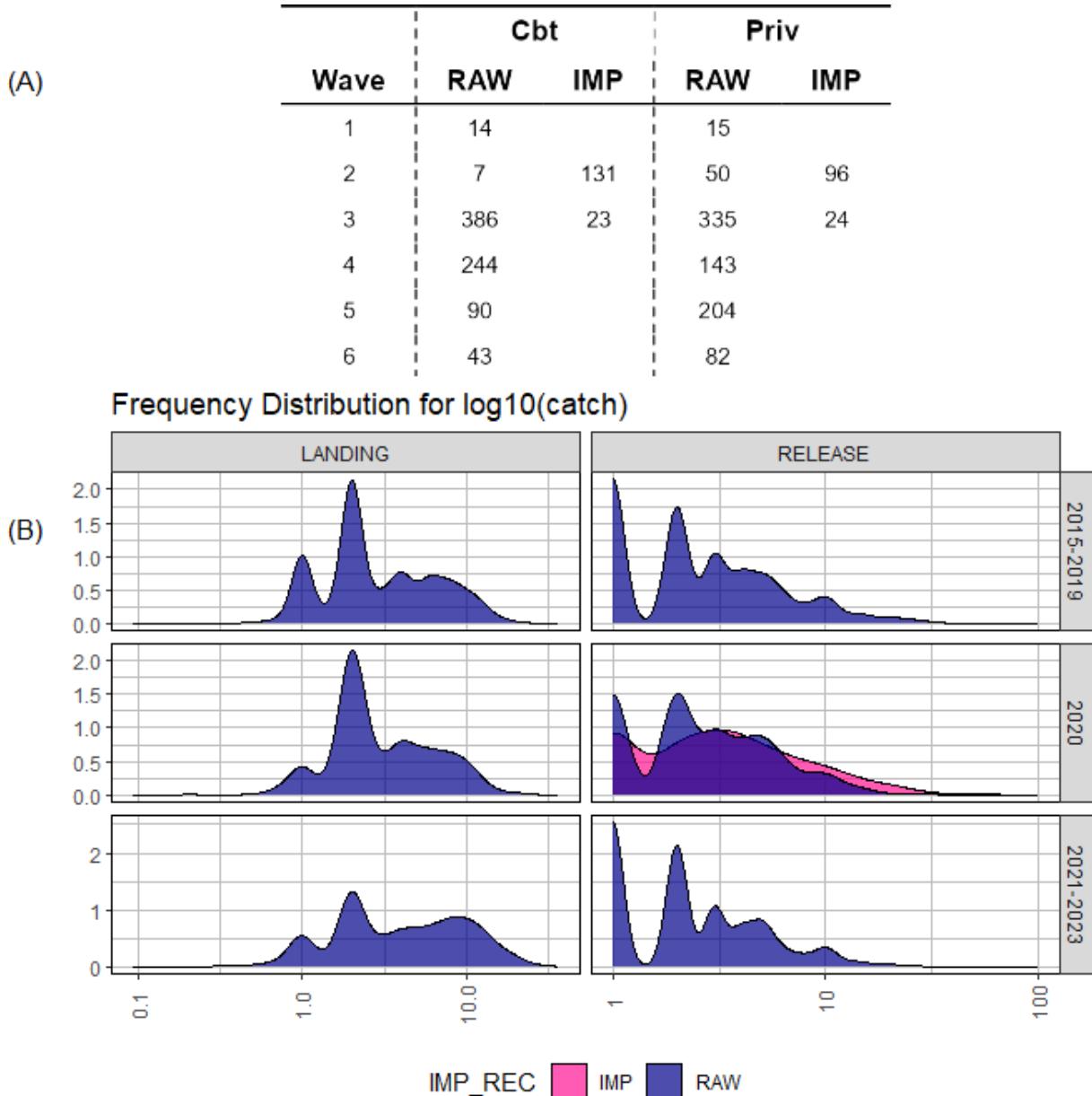


Figure 10. COVID data gaps in the MRIP APAIS and associated imputations for (positive) fishing trips that intercepted Gulf of Mexico Red Snapper. No 2020 data were imputed for the FES or FHS. (A) Number of positive intercepts in 2020 from the APAIS (RAW) vs. those imputed from intercepts in adjacent years (IMP). (B) Distribution of APAIS catch observations in years with no imputed catch data (in 2015-2019 and 2021-2023), 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 Mexico states).
 - 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 7-10). For SEDAR 98 Red Snapper, this includes any weights heavier than 52.668 pounds.
- SEFSC Estimates derived using SEDAR best practices (SEDAR-PW-07):
 - The MRFSS survey began in wave2 of 1981. The preferred method was applied to fill-in this (1981 wave1) MRIP data gap, by which the proportion of the wave1 estimate to that from other waves (2-6) in years 1982-1984 (by fishing mode and area) was multiplied by the total estimate from waves 2-6 in 1981. This approach was used to impute both the catch and effort estimates for this strata.
 - Estimates from the TPWD survey are available starting in May (wave3) 1983. The average estimate (by mode and wave) from waves 1-2 in 1984-1985 and from waves 3-6 in years 1983-1985 were used to fill-in these (1981-1983) data gaps in Texas recreational estimates. This approach was used to impute both the catch and effort estimates for these strata.
 - The TPWD survey does not estimate discards. As a proxy for recreational discards from Texas private and charterboat anglers, discard:landings ratios (B2:AB1) are calculated (by year and mode) from Louisiana catch estimates and multiplied by TPWD landings estimates.
 - 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).
- Between 1981 and 1985 in the Gulf of Mexico, 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, the MRIP combined for-hire mode must be split to provide estimates of headboat landings in these early years. 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).
 - The LA Creel survey replaced MRIP sampling of Louisiana anglers in Jan 2014, but has only collected discard information for Red Snapper since 2016. As a proxy for LA discards between 2014-2015, LA Creel landings estimates for 2014-2015 were multiplied by a mean ratio of Louisiana discards:landings (by mode).