

Year	Sub Region	State	Mode fished	Area Fished	N	Percentage change in				
						N (no imputation)	Mean Weight (kg)	Mean Weight (kg) (no imputation)	Percentage of sample that was imputed	Mean Weight as a result of imputed data
2015	Gulf of Mexico	Alabama	Charter	Ocean > Ocean	3	1	2.252174014	2.1	66.67	7.25
2015	Gulf of Mexico	Alabama	Private Boat	Ocean > Ocean	1	1	5.8	5.8	0	0
2015	Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	79	70	2.744313244	2.75641604	11.39	-0.44
2015	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	760	641	3.219830328	3.193176855	15.66	0.83
2015	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	24	12	3.136720607	3.005338404	50	4.37
2015	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	376	191	3.262562545	3.317146982	49.2	-1.65
2015	Gulf of Mexico	Florida	Private Boat	Inland	2	1	3.026751238	2.42	50	25.07
2016	Gulf of Mexico	Alabama	Charter	Ocean > Ocean	1	1	5.85	5.85	0	0
2016	Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	44	36	2.356156661	2.108969917	18.18	11.72
2016	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	636	520	2.805055608	2.825130281	18.24	-0.71
2016	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	43	26	3.407816547	3.600531887	39.53	-5.35
2016	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	194	99	3.123038816	2.95351043	48.97	5.74
2016	Gulf of Mexico	Florida	Private Boat	Inland	3	3	3.030544197	3.030544197	0	0
2017	Gulf of Mexico	Alabama	Charter	Ocean > Ocean	2	1	5.29047619	7.7	50	-31.29
2017	Gulf of Mexico	Alabama	Private Boat	Ocean > Ocean	2	2	5.6	5.6	0	0
2017	Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	26	17	2.727858989	2.761983248	34.62	-1.24
2017	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	321	252	3.426033926	3.417597193	21.5	0.25
2017	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	11	1	3.675515429	2.52	90.91	45.85
2017	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	114	44	3.224506524	3.17683662	61.4	1.5
2017	Gulf of Mexico	Florida	Private Boat	Inland	1	1	2.8	2.8	0	0
2018	Gulf of Mexico	Alabama	Charter	Ocean > Ocean	1	1	2.5	2.5	0	0
2018	Gulf of Mexico	Alabama	Private Boat	Ocean > Ocean	1	1	7	7	0	0
2018	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	247	208	3.687546536	3.655342442	15.79	0.88
2018	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	6	3	2.656890691	2.159453468	50	23.04
2018	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	85	52	3.327278401	3.706645469	38.82	-10.23
2018	Gulf of Mexico	Florida	Private Boat	Inland	2	0	2.980692825		100	100
2019	Gulf of Mexico	Alabama	Charter	Ocean > Ocean	2	2	9.191178685	9.191178685	0	0
2019	Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	2	2	2.099782972	2.099782972	0	0
2019	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	286	227	2.948100609	2.913308867	20.63	1.19
2019	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	10	8	3.352590852	3.301245544	20	1.56
2019	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	125	68	3.061289815	3.393192369	45.6	-9.78

Year	Sub Region	State	Mode fished	N	Mean Weight (kg) (no				Percentage of sample that	Percentage change in
					N (no imputation)	Mean Weight (kg)	imputation)	was imputed		Mean Weight as a result of imputed data
2015	Gulf of Mexico	Alabama	Charter		3	1	2.252174014	2.1	66.67	7.25
2015	Gulf of Mexico	Alabama	Private Boat		1	1	5.8	5.8	0	0
2015	Gulf of Mexico	West Florida	Charter		839	711	3.189155856	3.163473905	15.26	0.81
2015	Gulf of Mexico	West Florida	Private Boat		402	204	3.257946962	3.294211629	49.25	-1.1
2016	Gulf of Mexico	Alabama	Charter		1	1	5.85	5.85	0	0
2016	Gulf of Mexico	West Florida	Charter		680	556	2.77718253	2.785801878	18.24	-0.31
2016	Gulf of Mexico	West Florida	Private Boat		240	128	3.155425031	3.046870464	46.67	3.56
2017	Gulf of Mexico	Alabama	Charter		2	1	5.29047619	7.7	50	-31.29
2017	Gulf of Mexico	Alabama	Private Boat		2	2	5.6	5.6	0	0
2017	Gulf of Mexico	West Florida	Charter		347	269	3.384733997	3.379739476	22.48	0.15
2017	Gulf of Mexico	West Florida	Private Boat		126	46	3.279965208	3.162817213	63.49	3.7
2018	Gulf of Mexico	Alabama	Charter		1	1	2.5	2.5	0	0
2018	Gulf of Mexico	Alabama	Private Boat		1	1	7	7	0	0
2018	Gulf of Mexico	West Florida	Charter		247	208	3.687546536	3.655342442	15.79	0.88
2018	Gulf of Mexico	West Florida	Private Boat		93	55	3.295814966	3.6813308	40.86	-10.47
2019	Gulf of Mexico	Alabama	Charter		2	2	9.191178685	9.191178685	0	0
2019	Gulf of Mexico	West Florida	Charter		288	229	2.941895489	2.905159979	20.49	1.26
2019	Gulf of Mexico	West Florida	Private Boat		135	76	3.08399722	3.385549657	43.7	-8.91

Year	Wave	Sub Region	State	Mode fished	Area Fished	N	N (no imputation)	Mean Weight (kg)	Mean Weight (kg) (no imputation)	Percentage of sample that was imputed	Percentage change in Mean Weight as a result of imputed data
2015		1 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi		4	2.45	2.45	0	0
2015		1 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	37	20	3.287204597	2.934169884	45.95	12.03
2015		1 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	19	4	3.511178134	4.007880969	78.95	-12.39
2015		2 Gulf of Mexico	Alabama	Charter	Ocean > 3 mi	2	0	2.92		100	100
2015		2 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	23	22	2.575324076	2.622589865	4.35	-1.8
2015		2 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	76	69	3.287692028	3.237021702	9.21	1.57
2015		2 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	6	5	2.516878889	2.240271315	16.67	12.35
2015		2 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	38	17	3.69224419	3.728184027	55.26	-0.96
2015		2 Gulf of Mexico	Florida	Private Boat	Inland	1	0	3.389858399		100	100
2015		3 Gulf of Mexico	Alabama	Private Boat	Ocean > 3 mi	1	1	5.8	5.8	0	0
2015		3 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	21	19	2.930209642	2.913235681	9.52	0.58
2015		3 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	236	207	3.430585374	3.46521401	12.29	-1
2015		3 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	10	1	4.21132292	6.56	90	-35.8
2015		3 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	132	69	3.165732387	3.433165424	47.73	-7.79
2015		3 Gulf of Mexico	Florida	Private Boat	Inland	1	1	2.42	2.42	0	0
2015		4 Gulf of Mexico	Alabama	Charter	Ocean > 3 mi	1	1	2.1	2.1	0	0
2015		4 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	26	20	2.920998866	2.848665555	23.08	2.54
2015		4 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	282	242	3.041683181	2.974250155	14.18	2.27
2015		4 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	2	2	2.523488417	2.523488417	0	0
2015		4 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	126	72	3.123043142	3.043170543	42.86	2.62
2015		5 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	3	3	2.88512549	2.88512549	0	0
2015		5 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	129	103	3.07461457	3.103820761	20.16	-0.94
2015		5 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	2	2	2.81652698	2.81652698	0	0
2015		5 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	59	27	3.273470216	3.360210433	54.24	-2.58
2015		6 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	2	2	2.5	2.5	0	0
2015		6 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	4	2	3.442298189	4.345	50	-20.78
2015		6 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	2	2	2.588195648	2.588195648	0	0
2016		1 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	3	2	2.849050676	2.446319813	33.33	16.46
2016		1 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	44	38	2.426094168	2.442933762	13.64	-0.69
2016		1 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	1	1	2.36	2.36	0	0
2016		1 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	9	0	3.686674316		100	100
2016		2 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	4	4	2.39	2.39	0	0
2016		2 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	75	63	2.789497055	2.728292616	16	2.24
2016		2 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	13	7	4.42236583	5.651559565	46.15	-21.75
2016		2 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	27	16	2.787478492	2.72652767	40.74	2.24
2016		3 Gulf of Mexico	Alabama	Charter	Ocean > 3 mi	1	1	5.85	5.85	0	0
2016		3 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	21	18	2.395767452	2.169513575	14.29	10.43
2016		3 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	222	181	2.896918134	2.859619911	18.47	1.3
2016		3 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	19	10	3.356285007	3.05639778	47.37	9.81
2016		3 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	73	35	3.127493583	3.147015777	52.05	-0.62
2016		3 Gulf of Mexico	Florida	Private Boat	Inland	2	2	3.29	3.29	0	0
2016		4 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	5	5	2.17257889	2.17257889	0	0
2016		4 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	185	158	2.792185325	2.955175008	14.59	-5.52
2016		4 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	2	2	2.102112318	2.102112318	0	0
2016		4 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	36	23	3.190812072	3.152796399	36.11	1.21
2016		5 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	9	5	2.11625871	1.682691753	44.44	25.77
2016		5 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	40	28	2.823255757	2.836085868	30	-0.45
2016		5 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	1	0	2.522405068		100	100
2016		5 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	26	14	2.394600271	2.596220315	46.15	-7.77
2016		6 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	2	2	1.95	1.95	0	0
2016		6 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	70	52	2.841243551	3.070991463	25.71	-7.48
2016		6 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	7	6	2.568473842	2.518333333	14.29	1.99
2016		6 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	23	11	3.014607585	2.920338331	52.17	3.23
2016		6 Gulf of Mexico	Florida	Private Boat	Inland	1	1	2.92	2.92	0	0
2017		1 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	28	18	3.484314362	3.563851931	35.71	-2.23
2017		1 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	1	0	2.8		100	100
2017		1 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	4	0	2.7425		100	100
2017		2 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	1	1	2.2	2.2	0	0
2017		2 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	48	35	2.464850886	2.294331731	27.08	7.43
2017		2 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	2	1	2.921238747	2.52	50	15.92
2017		2 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	2	2	2.73262896	2.73262896	0	0
2017		3 Gulf of Mexico	Alabama	Charter	Ocean > 3 mi	2	1	5.29047619	7.7	50	-31.29
2017		3 Gulf of Mexico	Alabama	Private Boat	Ocean > 3 mi	2	2	5.6	5.6	0	0
2017		3 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	4	4	2.424002325	2.424002325	0	0
2017		3 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	93	76	3.4128855	3.395946672	18.28	0.5
2017		3 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	5	0	4.057994523		100	100
2017		3 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	20	15	3.495835364	3.477039084	25	0.54
2017		4 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	19	12	2.829404272	2.954555861	36.84	-4.24
2017		4 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	91	82	3.507263414	3.408326176	9.89	2.9
2017		4 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	3	0	2.294893645		100	100
2017		4 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	49	18	2.934766247	2.791735083	63.27	5.12
2017		5 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	5	5	2.315588693	2.315588693	0	0
2017		5 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	5	2	2.812539465	2.906611648	60	-3.24
2017		5 Gulf of Mexico	Florida	Private Boat	Inland	1	1	2.8	2.8	0	0
2017		6 Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	2	0	3.26		100	100
2017		6 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	56	36	3.522812859	3.58539478	35.71	-1.75
2017		6 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	34	7	3.347110307	3.513673533	79.41	-4.74
2018		1 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	8	6	3.796289148	2.998066184	25	26.62
2018		1 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	9	4	5.197257122	5.450112045	55.56	-4.64
2018		2 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	26	20	5.247740051	5.444493393	23.08	-3.61
2018		2 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	15	11	3.630377611	3.933390732	26.67	-7.7
2018		3 Gulf of Mexico	Alabama	Charter	Ocean > 3 mi	1	1	2.5	2.5	0	0
2018		3 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	112	95	3.429843455	3.405920269	15.18	0.7
2018		3 Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	4	2	3.213541376	2.164694546	50	48.45
2018		3 Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	11	4	4.248698543	5.289638014	63.64	-19.68
2018		4 Gulf of Mexico	Florida	Charter	Ocean > 10 mi	78	69	3.641275685	3.585448546	11.54	1.56

2018	4	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	2	1	2.14	2.14	50	0
2018	4	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	29	19	2.521970185	2.804566687	34.48	-10.08
2018	5	Gulf of Mexico	Alabama	Private Boat	Ocean > 3 mi	1	1	7	7	0	0
2018	5	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	14	10	2.481540911	3.061548435	28.57	-18.94
2018	5	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	12	7	2.599164419	2.575763058	41.67	0.91
2018	5	Gulf of Mexico	Florida	Private Boat	Inland	2	0	2.980692825		100	100
2018	6	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	9	8	2.825278584	2.789524861	11.11	1.28
2018	6	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	9	7	3.666958883	3.14624123	22.22	16.55
2019	1	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	13	11	5.580297136	5.088591851	15.38	9.66
2019	1	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	4	3	2.2	2.1	25	4.76
2019	1	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	19	6	2.918666411	3.934043564	68.42	-25.81
2019	2	Gulf of Mexico	Alabama	Charter	Ocean > 3 mi	1	1	9.5	9.5	0	0
2019	2	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	53	49	2.908828561	2.872651788	7.55	1.26
2019	2	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	16	14	3.613420541	3.707245966	12.5	-2.53
2019	3	Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	1	1	1.82	1.82	0	0
2019	3	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	123	89	3.00396165	3.147291353	27.64	-4.55
2019	3	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	42	22	3.59981958	3.767204056	47.62	-4.44
2019	4	Gulf of Mexico	Alabama	Charter	Ocean > 3 mi	1	1	8.9	8.9	0	0
2019	4	Gulf of Mexico	Florida	Charter	Ocean <= 10 mi	1	1	2.32	2.32	0	0
2019	4	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	56	43	2.839199859	2.669684547	23.21	6.35
2019	4	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	2	1	3.486472984	3.54	50	-1.51
2019	4	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	22	7	2.630761488	2.491220743	68.18	5.6
2019	5	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	31	26	2.872822911	2.881443681	16.13	-0.3
2019	5	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	3	0	2.488163983		100	100
2019	6	Gulf of Mexico	Florida	Charter	Ocean > 10 mi	10	9	2.204299995	2.143159792	10	2.85
2019	6	Gulf of Mexico	Florida	Private Boat	Ocean <= 10 mi	4	4	2.97124107	2.97124107	0	0
2019	6	Gulf of Mexico	Florida	Private Boat	Ocean > 10 mi	23	19	2.873938573	2.887806754	17.39	-0.48