

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
MARINE MAMMAL PATHOBIOLOGY LABORATORY
2021 Final Red Tide Manatee Mortalities, Jan 01 – Dec 31
Manatees Carcasses Collected Within the Known Red Tide Bloom Boundary

COUNTY	DATE	FIELD ID	SEX	SIZE (cm)	WATERWAY	LOCATION	CAUSE
Lee	9-Jan	MSW21002	M	198	Caloosahatchee River	Ft. Myers	Natural; Other (+)
Lee	12-Jan	MSW21005	M	294	Ostego Bay	Ft. Myers Beach	Natural; Other (Red Tide)
Lee	13-Jan	MSW21006	U	200	San Carlos Pass	Ft. Myers	Verified; Not Necropsied (@)
Lee	20-Jan	MSW21007	F	179	Imperial River	Bonita Springs	Undetermined; Other (+)
Lee	29-Jan	MSW21012	M	225	Big Carlos Bay	Ft. Myers Beach	Natural; Other (Red Tide)
Lee	9-Jan	MSW21013	M	203	Caloosahatchee River	Cape Coral	Natural; Other (Red Tide)
Lee	3-Feb	MSW21014	U	250	Gulf of Mexico	Cayo Costa	Verified; Not Necropsied (@)
Lee	4-Feb	MSW21015	M	245	Caloosahatchee River	Cape Coral	Verified; Not Necropsied (%)
Lee	6-Feb	MSW21016	U	250	Matlacha Pass	Cape Coral	Verified; Not Necropsied (@)
Lee	7-Feb	MSW21017	M	250	San Carlos Bay	Ft. Myers	Verified; Not Necropsied (@)
Lee	8-Feb	MSW21018	U	270	Caloosahatchee River	Ft. Myers	Verified; Not Necropsied (@)
Lee	11-Feb	MSW21021	M	285	Imperial River	Bonita Springs	Verified; Not Necropsied (@)
Lee	15-Feb	MSW21022	F	271	Pine Island Sound	St. James City	Natural; Other (Red Tide)
Lee	15-Feb	MSW21023	U	250	Pine Island Sound	Sanibel	Verified; Not Necropsied (%)
Lee	16-Feb	MSW21025	F	200	San Carlos Bay	Ft. Myers	Verified; Not Necropsied (%)
Lee	17-Feb	MSW21026	M	150	Caloosahatchee River	Ft. Myers	Perinatal; Verified; Not Necropsied (%)
Lee	17-Feb	MSW21027	F	240	Caloosahatchee River	Ft. Myers	Verified; Not Necropsied (%)
Lee	17-Feb	MSW21028	F	218	Pine Island Sound	St. James City	Natural; Other (Red Tide)
Lee	21-Feb	MSW21029	F	309	Imperial River	Bonita Springs	Watercraft (+)
Lee	23-Feb	MSW21032	U	180	Tarpon Bay	Sanibel	Verified; Not Necropsied (@)
Lee	25-Feb	MSW21033	F	185	San Carlos Bay	St. James City	Verified; Not Necropsied (@)
Lee	25-Feb	MSW21034	M	245	Imperial River	Bonita Springs	Verified; Not Necropsied (@)
Lee	4-Mar	MSW21035	U	185	Redfish Pass	Captiva	Verified; Not Necropsied (@)
Lee	7-Mar	MSW21036	F	224	Pine Island Sound	St. James City	Natural; Other (Red Tide)
Lee	8-Mar	MSW21037	M	240	Pine Island Sound	Whoopee Island	Verified; Not Necropsied (@)
Lee	8-Mar	MSW21038	U	120	San Carlos Bay	Sanibel	Perinatal; Verified; Not Necropsied (%)
Lee	12-Mar	MSW21039	F	125	Philips Canal	St. James City	Perinatal; Verified; Not Necropsied (%)
Lee	13-Mar	MSW21040	U	215	Matlacha Pass	Matlacha	Verified; Not Necropsied (@)
Lee	21-Mar	MSW21043	F	270	Charlotte Harbor	Bokeelia	Natural; Other (Red Tide)
Lee	22-Mar	MSW21044	F	194	Pine Island Sound	Bokeelia	Natural; Other (Red Tide)
Lee	26-Mar	MSW21046	U	250	Charlotte Harbor	Bokeelia	Verified; Not Necropsied (%)
Charlotte	29-Mar	MSW21048	M	193	Lemon Bay	Englewood	Watercraft (+)
Lee	29-Mar	MSW21049	M	249	Charlotte Harbor	Bokeelia	Verified; Not Necropsied (%)
Lee	30-Mar	MSW21050	M	239	Charlotte Harbor	Bokeelia	Verified; Not Necropsied (%)
Lee	6-Apr	MSW21053	M	322	Boca Grande Bayou	Boca Grande	Undetermined; Too Decomposed (%)
Lee	8-Apr	MSW21054	U	250	Little Bokeelia Bay	Bokeelia	Verified; Not Necropsied (@)
Lee	8-Apr	MSW21056	M	183	Imperial River	Bonita Springs	Natural; Other (Red Tide)
Charlotte	12-Apr	MSW21057	M	262	Coral Creek	Placida	Verified; Not Necropsied (@)
Sarasota	21-Apr	MSW21064	F	295	New Pass	Longboat Key	Verified; Not Necropsied (@)
Charlotte	24-Apr	MSW21066	U	215	Placida Harbor	Placida	Verified; Not Necropsied (@)
Charlotte	6-May	MSW21071	U	275	Turtle Bay	Placida	Verified; Not Necropsied (@)
Charlotte	9-May	MSW21072	U	280	Gasparilla Sound	Boca Grande	Verified; Not Necropsied (@)
Charlotte	11-May	MSW21073	F	250	Placida Harbor	Placida	Verified; Not Necropsied (@)
Charlotte	12-May	MSW21074	U	230	Gulf of Mexico	Placida	Verified; Not Necropsied (@)
Charlotte	22-May	MSW21078	U	275	Peace River	Punta Gorda	Verified; Not Necropsied (@)
Lee	29-May	MSW21080	M	210	Estero Bay	Ft. Myers Beach	Verified; Not Necropsied (@)

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Lee	30-May	MSW21082	U	180	Old Blind Pass	Sanibel	Verified; Not Necropsied (@)
Lee	31-May	MSW21083	M	209	Matlacha Pass	St. James City	Verified; Not Necropsied (@)
Lee	2-Jun	MSW21087	M	250	Matlacha Pass	Bokeelia	Verified; Not Necropsied (@)
Lee	4-Jun	MSW21088	F	185	Estero Bay	Ft. Myers Beach	Verified; Not Necropsied (@)
Lee	8-Jun	MSW21090	U	250	Pine Island Sound	Saint James City	Verified; Not Necropsied (@)
Lee	8-Jun	MSW21091	F	222	Estero Bay	Bonita Springs	Natural; Other (Red Tide)
Lee	9-Jun	MSW21093	U	120	Imperial River	Bonita Springs	Perinatal; Verified; Not Necropsied (%)
Pinellas	17-Jun	MNW21085	M	254	Boca Ciega Bay	Redington Shores	Natural; Other (Red Tide)
Pinellas	20-Jun	SWFTm2132	F	245	Boca Ciega Bay	Seminole	Natural; Other (Red Tide)
Pinellas	21-Jun	MNW21088	M	219	Boca Ciega Bay	St Petersburg	Natural; Other (+)
Pinellas	23-Jun	MNW21089	F	299	Boca Ciega Bay	Indian Rocks Beach	Natural; Other (Red Tide)
Pinellas	26-Jun	MNW21090	F	280	Boca Ciega Bay	Redington Shores	Natural; Other (Red Tide)
Lee	28-Jun	MSW21101	M	249	Estero Bay	Ft. Myers Beach	Verified; Not Necropsied (+)
Pinellas	29-Jun	MNW21092	F	241	Boca Ciega Bay	St. Petersburg	Natural; Other (Red Tide)
Pinellas	7-Jul	MNW21099	M	251	Boca Ciega Bay	Madeira Beach	Natural; Other (Red Tide)
Pinellas	15-Jul	MNW21103	F	255	Clearwater Harbor	Clearwater	Natural; Other (Red Tide)
Hillsborough	15-Jul	MNW21104	F	305	Tampa Bay	Apollo Beach	Natural; Other (Red Tide)
Pinellas	15-Jul	MNW21105	F	252	Tampa Bay	St. Petersburg	Undetermined; Too Decomposed (+)
Hillsborough	17-Jul	MNW21106	F	264	Alafia River	Gibsonston	Natural; Other (Red Tide)
Pinellas	19-Jul	MNW21107	F	260	Big Bayou	St. Petersburg	Natural; Other (Red Tide)
Pinellas	21-Jul	MNW21109	M	209	Boca Ciega Bay	Seminole	Natural; Other (Red Tide)
Pinellas	22-Jul	MNW21110	F	254	Mullet Key Bayou	Tierra Verde	Natural; Other (Red Tide)
Sarasota	22-Jul	MSW21117	M	283	Sarasota Bay	Sarasota	Undetermined; Too Decomposed (+)
Hillsborough	22-Jul	MNW21111	F	294	Hillsborough Bay	Riverview	Natural; Other (Red Tide)
Manatee	27-Jul	MNW21113	M	235	Anna Marina Sound	Bradenton	Natural; Other (Red Tide)
Pinellas	28-Jul	MNW21114	M	231	Boca Ciega Bay	Seminole	Verified; Not Necropsied (%)
Pinellas	29-Jul	MNW21115	M	257	Boca Ciega Bay	Redington Shores	Natural; Other (Red Tide)
Pinellas	30-Jul	MNW21116	U	240	Saint Joes Creek	St Petersburg	Verified; Not Necropsied (%)
Pinellas	30-Jul	MNW21117	U	240	Clam Bayou	Gulfport	Verified; Not Necropsied (@)
Sarasota	30-Jul	MSW21118	F	301	Roberts Bay	Sarasota	Natural; Other (Red Tide)
Pinellas	31-Jul	MNW21118	M	219	Boca Ciega Bay	Bay Pines	Verified; Not Necropsied (%)
Lee	1-Aug	MSW21119	F	290	Matlacha Pass	Matlacha	Verified; Not Necropsied (@)
Lee	1-Aug	MSW21120	M	180	Jug Creek	Bokeelia	Verified; Not Necropsied (@)
Pinellas	2-Aug	MNW21121	U	275	Mullet Key Bayou	St. Petersburg	Verified; Not Necropsied (@)
Pinellas	2-Aug	MNW21122	M	275	Boca Ciega Bay	Redington Shores	Verified; Not Necropsied (%)
Pinellas	4-Aug	MNW21123	F	230	Boca Ciega Bay	Madeira Beach	Verified; Not Necropsied (%)
Sarasota	4-Aug	MSW21122	F	265	Sarasota Bay	Sarasota	Verified; Not Necropsied (%)
Pinellas	10-Aug	MNW21127	U	180	Cross Bayou	Pinellas Park	Verified; Not Necropsied (@)
Lee	13-Aug	MSW21124	U	180	Matlacha Pass	Bookelia	Verified; Not Necropsied (@)
Lee	19-Aug	MSW21126	F	313	Gulf of Mexico	Cayo Costa	Natural; Other (Red Tide)
Charlotte	24-Aug	MSW21129	F	290	Myakka River	Port Charlotte	Verified; Not Necropsied (@)
Pinellas	24-Aug	MNW21128	F	210	Boca Ciega Bay	Redington Shores	Verified; Not Necropsied (@)
Pinellas	25-Aug	MNW21129	M	268	Boca Ciega Bay	Seminole	Natural; Other (Red Tide)
Lee	1-Sep	MSW21130	F	277	Pine Island Sound	Bokeelia	Natural; Other (Red Tide)
Pinellas	2-Sep	MNW21132	F	242	Boca Ciega Bay	St. Petersburg	Natural; Other (Red Tide)
Sarasota	2-Sep	MSW21131	M	301	Gulf of Mexico	Nokomis	Natural; Other (Red Tide)
Lee	3-Sep	MSW21132	U	250	Matlacha Pass	Bokeelia	Verified; Not Necropsied (@)
Pinellas	7-Sep	MNW21135	M	198	Boca Ciega Bay	Redington Shores	Natural; Other (+)
Lee	21-Sep	MSW21137	F	270	Pine Island Sound	Captiva	Verified; Not Necropsied (@)
Pinellas	22-Sep	MNW21137	F	315	Kreamer Bayou	Tarpons Springs	Undetermined; Too Decomposed (+)
Manatee	22-Sep	MNW21138	F	348	Manatee River	Parrish	Verified; Not Necropsied (@)
Pinellas	22-Sep	MNW21139	M	222	Clearwater Harbor	Clearwater	Natural; Other (Red Tide)
Manatee	2-Oct	MNW21140	F	315	Palma Sola Bay	Bradenton	Verified; Not Necropsied (@)

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Hillsborough	7-Oct	MNW21141	U	250	Tampa Bay	Ruskin	Verified; Not Necropsied (@)
Sarasota	8-Oct	MSW21143	F	278	Blackburn Bay	Nokomis	Natural; Other (Red Tide)
Manatee	13-Oct	MNW21143	M	265	Palma Sola Bay	Bradenton	Natural; Other (Red Tide)
Manatee	14-Oct	MNW21145	U	180	Tampa Bay	Anna Maria	Verified; Not Necropsied (%)
Charlotte	17-Oct	MSW21146	M	188	Lemon Bay	Englewood	Natural; Other (Red Tide)
Sarasota	17-Oct	MSW21147	F	264	Forked Creek	Englewood	Verified; Not Necropsied (%)
Sarasota	18-Oct	MSW21148	M	250	Little Sarasota Bay	Sarasota	Verified; Not Necropsied (%)
Manatee	18-Oct	MNW21147	F	252	Terra Ceia Bay	Palmetto	Verified; Not Necropsied (%)
Manatee	19-Oct	MNW21148	F	349	Palma Sola Bay	Cortez	Verified; Not Necropsied (%)
Manatee	22-Oct	MNW21149	M	312	Anna Marina Sound	Holmes Beach	Watercraft (+)
Manatee	28-Oct	MNW21150	M	257	Bimini Bay	Anna Maria	Natural; Other (Red Tide)
Manatee	31-Oct	MNW21152	M	314	Palma Sola Bay	Bradenton	Verified; Not Necropsied (%)
Manatee	6-Nov	MNW21155	F	245	Manatee River	Bradenton	Natural; Other (Red Tide)
Pinellas	18-Nov	MNW21161	M	207	Boca Ciega Bay	Gulfport	Natural; Other (Red Tide)
Pinellas	18-Nov	MNW21162	M	183	Boca Ciega Bay	Redington Shores	Natural; Other (%)

(+) (%) (#) (*) (~) Red Tide Suspect

Red Tide Positive = 38

Red Tide Suspect = 36

Red Tide Possible = 40

Red Tide Total = 114

(Red Tide) and (+) Brevetoxin detected by ELISA analysis in Stomach Contents, Liver, Urine, or other collected sample.

(%) Red Tide Suspect: Low level of brevetoxin detected, or proximity to Red Tide positive carcass.

(#) Red Tide Suspect: Tissue samples being tested at FWRI.

(~) Red Tide Suspect: Tissue samples at MMPL.

(@) Red Tide Possible: Carcass reported within the known bloom boundary. Tissues not tested.