

**FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION**  
**MARINE MAMMAL PATHOBIOLOGY LABORATORY**  
**2020 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	1-Jan	MSW20001 <i>F</i>	M	203	Pine Island Sound	St. James City	Natural; Other (Red Tide)
Lee	2-Jan	MSW20002 <i>F</i>	F	282	10 Mile Canal	Ft. Myers	Natural; Other (Red Tide)
Lee	3-Jan	MSW20003	U	185 (est)	Gulf of Mexico	Cayo Costa	Verified; Not Necropsied (@)
Lee	7-Jan	MSW20004	F	261	Matlacha Pass	Cape Coral	Natural; Other (Red Tide)
Lee	9-Jan	MSW20005 <i>F</i>	M	256	Tarpon Bay	Sanibel	Natural; Other (Red Tide)
Lee	10-Jan	MSW20006 <i>F</i>	M	245	San Carlos Bay	St. James City	Undetermined; Too Decomposed (+)
Charlotte	15-Jan	MSW20008	M	220	Godfrey Creek	Englewood	Natural; Other (+)
Lee	21-Jan	MSW20009 <i>F</i>	M	267	Tarpon Bay	Sanibel	Natural; Other (Red Tide)
Lee	23-Jan	MSW20012	F	254	Estero Bay	Bonita Springs	Natural; Other (Red Tide)

*F* Indicates a Field Necropsy was Performed.

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

Red Tide Positive = 6

Red Tide Suspect = 2

Red Tide Possible = 1

Red Tide Total = 9

(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.

(#) 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.

**Numbers are preliminary. More manatee mortalities may be added after review of brevetoxin lab results and spatial/temporal analysis of carcasses that were verified but not recovered.**