FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION MARINE MAMMAL PATHOBIOLOGY LABORATORY 2019 Final Red Tide Manatee Mortalities, Jan 01 – Dec 31 Manatees Carcasses Collected Within the Known Red Tide Bloom Boundary

Collier	COUNTY	DATE	FIELD ID	SEX	SIZE (cm)	WATERWAY	LOCATION	CAUSE
Lee								
Lee	Lee		MSW19139					
Collier	Lee	26-Oct	MSW19140	М	296	Estero Bay	•	Natural; Other (Red Tide)
Lee	Collier	27-Oct	MSW19141	F		Naples Bay		
Collier	Lee	1-Nov	MSW19142	М	320 (est)		St. James City	Verified; Not Recovered (@)
Collier	Collier	2-Nov	LPZ103493	М	214	Big Marco Pass	· ·	Natural; Other (Red Tide)
Lee	Collier	3-Nov	MSW19143	М	275	Marco Pass	Marco Island	
Lee	Lee	5-Nov	MSW19144	М	232	Estero Bay	Estero	Natural; Other (Red Tide)
Charlotte	Lee	6-Nov	MSW19145	M	277	Charlotte Harbor	Boca Grande	Natural; Other (Red Tide)
Lee 8-Nov MSW19148 M 275 (est) Matlacha Pass Cape Coral Verified; Not Recovered (∅) Lee 11-Nov MSW19149 M 223 Punta Rassa Cove Ft. Myers Undetermined; Other (+) Lee 11-Nov MSW19150 F 200 (est) Blind Pass Sanibel Verified; Not Recovered (∅) Lee 11-Nov MSW19151 F 200 (est) Blind Pass Sanibel Verified; Not Recovered (∅) Lee 12-Nov MSW19152 F 155 (est) Pine Island Soud Cayo Costa Verified; Not Recovered (∅) Lee 13-Nov MSW19154 F 215 Gasparilla Sound Placida Natural; Other (Red Tide) Lee 17-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 18-Nov MSW19156 U 245 (est) Pine Island Soud Useppa Island Verified; Not Recovered (∅) Charlotte 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (+) Lee 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (+) Lee 21-Nov MSW19159 F 146 Back Bay Bokeelia Perinatis, Natural; Other (Red Tide) Lee 22-Nov MSW19159 F 146 Back Bay Bokeelia Perinatis, Natural (+) Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanibel Verified; Not Recovered (∅) Lee 26-Nov MSW19166 W 194 Big Carlos Pass F It. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (∅) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass F It. Myers Beach Natural; Other (Red Tide) Lee 29-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19177 M 285 San Carlos Pass F It. Myers Beach Natural; Other (Red Tide) Lee 3-Dec MSW19177 M 305 Matlanzas Pass F It. Myers Beach Natural; Other (Red Tide) Lee 3-Dec MSW19178 F 289 San Carlos Pass F It. Myers Beach Natural; Other (Red Tide) Lee 3-Dec MSW19178 F 289 San Carlos Pass F It. Myers Beach Verified; Not Recovered (∅) Lee 3-Dec MSW19177 M 305 Matlanzas Pass F It. Myers Beach Verified; Not Recovered (∅) Lee 6-Dec MSW19178 F 200 (est) Little Carlos Pass F It. Myers Beach Verified; Not Recovered (∅) Lee 6-Dec MSW19178 F 200 (est) Little Carlos Pass F It. Myers Verified; Not Recovered (∅) Lee 8-Dec MSW19188 M 250 (e	Lee	7-Nov	MSW19146	F	188	Safety Harbor	Upper Captiva	Natural; Other (Red Tide)
Lee 10-Nov MSW19149 F M 220 (est) Redfish Pass Captiva Verified; Not Recovered (®) Lee 11-Nov MSW19150 F 200 (est) Redfish Pass Sanlbel Verified; Not Recovered (®) Lee 112-Nov MSW19151 F 200 (est) Pine Island Soud Cayo Costa Verified; Not Recovered (®) Lee 112-Nov MSW19152 F 155 (est) Pine Island Soud Cayo Costa Verified; Not Recovered (®) Charlotte 14-Nov MSW19153 U 232 San Carlos Bay Sanlbel Verified; Not Recovered (®) Charlotte 14-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 17-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 18-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 18-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (₱) Charlotte 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (₱) Lee 21-Nov MSW19158 M 215 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (®) Lee 24-Nov MSW19159 F 146 Back Bay Bokeelia Perinatal; Natural (+) Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanlbel Verified; Not Recovered (®) Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (®) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 30-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanlbel Natural; Other (Red Tide) Lee 30-Nov MSW19172 F 289 San Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 30-Dec MSW19175 M 305 Matlanda Pass Cape Coral Natural; Other (Red Tide) Lee 30-Dec MSW19176 M 179 Matlanda Pass Cape Coral Natural; Other (Red Tide) Lee 30-Dec MSW19176 F 305 Matlanda Pass Cape Coral Natural; Other (Red Tide) Lee 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 7-Dec MSW19189 M 256 (est) Estero Bay Bonita Springs Verified; Not Recovered (®) Lee 7-Dec MSW19180 M 265 (est) Fise Pass San Carlos Bay St. James City Verified; Not Recovere	Charlotte	8-Nov	MSW19147 F	М	245	Lemon Bay	Englewood	Natural; Other (Red Tide)
Lee 11-Nov MSW19150 M 200 (est) Redfish Pass Captiva Verified; Not Recovered (ℚ) Lee 11-Nov MSW19151 F 200 (est) Blind Pass Sanibel Verified; Not Recovered (ℚ) Lee 13-Nov MSW19152 F 155 (est) Pine Island Soud Cayo Costa Verified; Not Recovered (ℚ) Lee 13-Nov MSW19153 U 232 San Carlos Bay Sanibel Verified; Not Recovered (ℚ) Charlotte 14-Nov MSW19155 H 215 Gasparilla Sound Placida Natura; Other (Red Tide) Lee 18-Nov MSW19155 W 227 Charlotte Harbor Bokeelia Natura; Other (Red Tide) Lee 18-Nov MSW19156 U 245 (est) Pine Island Soud Useppa Island Verified; Not Recovered (ℚ) Charlotte 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (+) Lee 21-Nov MSW19158 M 215 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (ℚ) Lee 23-Nov MSW19159 F 146 Back Bay Bokeelia Perinata; Natural (+) Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanibel Verified; Not Recovered (ℚ) Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natura; Other (Red Tide) Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natura; Other (Red Tide) Lee 26-Nov MSW19168 F 333 Imperial River Bonita Springs Verified; Not Recovered (ℚ) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (ℚ) Lee 29-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Natura; Other (Red Tide) Lee 3-Dec MSW19170 F 186 Gulf of Mexico Sanibel Natura; Other (Red Tide) Lee 3-Dec MSW19174 M 286 Charlotte Harbor Punta Gorda Natura; Other (Red Tide) Lee 3-Dec MSW19175 M 305 Matlacha Pass Cape Coral Natura; Other (Red Tide) Lee 6-Dec MSW19176 M 179 Matlacha Pass Cape Coral Natura; Other (Red Tide) Lee 7-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (ℚ) Lee 7-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (ℚ) Lee 8-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (ℚ) Lee 8-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (ℚ) Lee 8-Dec MSW19183 U 270 (est) Imperial River Bonit	Lee	8-Nov	MSW19148	M	275 (est)	Matlacha Pass	Cape Coral	Verified; Not Recovered (@)
Lee 11-Nov MSW19151 F 200 (est) Blind Pass Sanibel Verified; Not Recovered (@) Lee 12-Nov MSW19152 F 155 (est) Prine Island Soud Cayo Costa Verified; Not Recovered (@) Lee 13-Nov MSW19153 U 232 San Carlos Bay Sanibel Verified; Not Recovered (@) Charlotte 14-Nov MSW19154 F 215 Gasparilla Sound Placida Natural; Other (Red Tide) Lee 17-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 18-Nov MSW19156 U 245 (est) Pine Island Soud Useppa Island Verified; Not Recovered (@) Charlotte 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (+) Lee 21-Nov MSW19158 M 215 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 23-Nov MSW19159 F 146 Back Bay Bokeelia Perinatal; Natural (+) Lee 24-Nov MSW19161 U 245 (est) Pine Island Soud Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19164 U 245 (est) Pine Island Soud Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (@) Lee 26-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (@) Lee 29-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19174 M 285 Charlotte Harbor Punta Gorda Natural; Other (Red Tide) Lee 5-Dec MSW19176 M 305 Matlacha Pass Cape Coral Verified; Not Recovered (@) Lee 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 7-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 7-Dec MSW19178 F 312 Calossahathee River Bonita Springs Verified; Not Recovered (@) Lee 7-Dec MSW19178 F 300 (est) Matlacha Pass Cape Coral Verified; Not Recovered (@) Lee 7-Dec MSW19178 F 301 (est) San Carlos Bay Englewood Natural; Other (Red Tide) Lee 7-Dec MSW19180 M 265 (est) Carlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 8-Dec MSW19181 M 215 (est) San Carlos Bay St. James City	Lee	10-Nov	MSW19149 F	M	223	Punta Rassa Cove	Ft. Myers	Undetermined; Other (+)
Lee 12-Nov MSW19152 F 155 (est) Pine Island Soud Cayo Costa Verified; Not Recovered (⊕) Lee 13-Nov MSW19153 U 232 San Carlos Bay Sanibel Verified; Not Recovered (⊕) Lee 17-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 18-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 18-Nov MSW19156 U 245 (est) Pine Island Soud Useppa Island Verified; Not Recovered (⊕) Lee 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (+) Lee 21-Nov MSW19158 M 215 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (⊕) Lee 23-Nov MSW19159 F 146 Back Bay Bokeelia Perinatal; Natural (+) Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanibel Verified; Not Recovered (⊕) Lee 26-Nov MSW19164 U 245 (est) Pine Island Soud Sanibel Verified; Not Recovered (⊕) Lee 26-Nov MSW19166 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (⊕) Lee 29-Nov MSW19168 M 250 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (⊕) Lee 30-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (⊕) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 30-Dec MSW19174 M 285 Charlotte Harbor Punta Gorda Natural; Other (Red Tide) Lee 5-Dec MSW19175 M 305 Matlacha Pass Cape Coral Verified; Not Recovered (⊕) Sarasota 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 7-Dec MSW19180 M 265 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (⊕) Lee 7-Dec MSW19181 M 275 (est) Imperial River Bonita Springs Verified; Not Recovered (⊕) Lee 7-Dec MSW19181 M 275 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (⊕) Lee 8-Dec MSW19185 F 310 (est) Imperial River Bonita Springs Verified; Not Recovered (⊕) Lee 8-Dec MSW19186 M 275 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (⊕) Lee 9-Dec MSW19186 M 250 (est) Pine Island Soud Verified; Not Reco	Lee	11-Nov	MSW19150	M	200 (est)	Redfish Pass	Captiva	Verified; Not Recovered (@)
Lee 13-Nov MSW19153 U 232 San Carlos Bay Sanibel Verified; Not Recovered (⊕) Charlotte 14-Nov MSW19154 F 215 Gasparilla Sound Placida Natural; Other (Red Tide) Lee 17-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 18-Nov MSW19156 U 245 (est) Pine Island Soud Useppa Island Verified; Not Recovered (⊕) Charlotte 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (+) Lee 21-Nov MSW19158 M 215 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (⊕) Lee 23-Nov MSW19159 F 146 Back Bay Bokeelia Perinatal; Natural (+) Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanibel Verified; Not Recovered (⊕) Lee 26-Nov MSW19164 U 245 (est) Pine Island Soud Sanibel Verified; Not Recovered (⊕) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (⊕) Lee 28-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (⊕) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (⊕) Lee 30-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (⊕) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19172 F 289 San Carlos Pass Ft. Myers Beach Verified; Not Recovered (⊕) Lee 3-Dec MSW19176 M 305 Matlacha Pass Cape Coral Natural; Other (Red Tide) Lee 6-Dec MSW19176 M 179 Matlacha Pass Cape Coral Natural; Other (Red Tide) Lee 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 7-Dec MSW19188 M 251 (est) San Carlos Pass Ft. Myers Beach Verified; Not Recovered (⊕) Lee 7-Dec MSW19188 M 275 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (⊕) Lee 7-Dec MSW19186 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (⊕) Lee 7-Dec MSW19186 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (⊕) Lee 8-Dec MSW19186 F 312 Calossahatchee River Cape Coral Verified; Not Recovered (⊕) Lee 8-Dec MSW19186 F 312 Calossahatchee River Bonita Springs Verified; Not Recovered (⊕) Lee 9-Dec MSW19187 F 312 Calossahatchee River C	Lee	11-Nov	MSW19151	F	200 (est)	Blind Pass	Sanibel	Verified; Not Recovered (@)
Charlotte	Lee	12-Nov	MSW19152	F	155 (est)	Pine Island Soud	Cayo Costa	Verified; Not Recovered (@)
Lee 17-Nov MSW19155 M 227 Charlotte Harbor Bokeelia Natural; Other (Red Tide) Lee 18-Nov MSW19156 U 245 (est) Pine Island Soud Useppa Island Verified; Not Recovered (@) Charlotte 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (+) Lee 21-Nov MSW19158 M 215 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 23-Nov MSW19159 F 146 Back Bay Bokeelia Perinatal; Natural (+) Lee 24-Nov MSW19161 U 205 (est) Kesson Bayou Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19168 M 185 (est) San Carlos Pass Pt. Myers Beach Verified; Not Recovered (@) Lee 28-Nov MSW19169 M 230 (est) Mata	Lee	13-Nov	MSW19153	U	232	San Carlos Bay	Sanibel	Verified; Not Recovered (@)
Lee	Charlotte	14-Nov	MSW19154	F	215	Gasparilla Sound	Placida	Natural; Other (Red Tide)
Charlotte 21-Nov MSW19157 M 196 Turtle Bay Placida Undetermined; Too Decomposed (+) Lee 21-Nov MSW19158 M 215 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 23-Nov MSW19159 F 146 Back Bay Bokeelia Perinatal; Natural (+) Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (@) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Pt. Myers Beach Verified; Not Recovered (@) Lee 29-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 30-Nov MSW19175 M 285 Charlotte Harbor <td>Lee</td> <td>17-Nov</td> <td>MSW19155</td> <td>M</td> <td>227</td> <td>Charlotte Harbor</td> <td>Bokeelia</td> <td>Natural; Other (Red Tide)</td>	Lee	17-Nov	MSW19155	M	227	Charlotte Harbor	Bokeelia	Natural; Other (Red Tide)
Lee 21-Nov MSW19158 M 215 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 23-Nov MSW19159 F 146 Back Bay Bokeelia Perinatal; Natural (+) Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19164 U 245 (est) Pine Island Soud Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (@) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (@) Lee 29-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19178 M 285 Charlotte Harbor </td <td>Lee</td> <td></td> <td></td> <td></td> <td>, ,</td> <td></td> <td></td> <td>. , ,</td>	Lee				, ,			. , ,
Lee 23-Nov MSW19159 F 146 Back Bay Bokeelia Perinatal; Natural (+) Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (@) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (@) Lee 29-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19172 F 289 San Carlos Pass Ft. Myers Natural; Other (Red Tide) Lee 5-Dec MSW19174 M 285 Charlotte Harbor	Charlotte		MSW19157	M	196	•	Placida	
Lee 24-Nov MSW19161 U 200 (est) Kesson Bayou Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19164 U 245 (est) Pine Island Soud Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19166 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (@) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (@) Lee 29-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19172 F 289 San Carlos Pass Ft. Myers Natural; Other (Red Tide) Lee 3-Dec MSW19174 M 285 Charlotte Harbor Punta Gorda Natural; Other (Red Tide) Lee 3-Dec MSW19175 M 305 Matlacha Pass Cape Coral Verified; Not Recovered (@) Lee 6-Dec MSW19176 M 179 Matlacha Pass Cape Coral Verified; Not Recovered (@) Sarasota 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 6-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 7-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 7-Dec MSW19180 M 265 (est) Estero Bay Bonita Springs Verified; Not Recovered (@) Lee 7-Dec MSW19181 M 215 (est) San Carlos Bay St. James City Verified; Not Recovered (@) Lee 8-Dec MSW19184 F 312 Caloosahatche River Bonita Springs Verified; Not Recovered (@) Lee 8-Dec MSW19184 F 312 Caloosahatche River Cape Coral Verified; Not Recovered (@) Lee 9-Dec MSW19185 F 180 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19187 U 200 (est) Hendry Creek Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19188 U 275 (est) Pine Island Soud Sanibel Verified; Not Recovered (@)	Lee				, ,		•	
Lee 26-Nov MSW19164 U 245 (est) Pine Island Soud Sanibel Verified; Not Recovered (@) Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (@) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (@) Lee 29-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19172 F 289 San Carlos Pass Ft. Myers Natural; Other (Red Tide) Lee 5-Dec MSW19174 M 285 Charlotte Harbor Punta Gorda Natural; Other (Red Tide) Lee 3-Dec MSW19175 M 305 Matlacha Pass Cape Coral Verified; Not Recovered (@) Lee 6-Dec MSW19176 M 179 Matlacha Pass Cape Coral Verified; Not Recovered (@) Sarasota 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 6-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 7-Dec MSW19180 M 265 (est) Estero Bay Bonita Springs Verified; Not Recovered (@) Lee 7-Dec MSW19181 M 215 (est) San Carlos Bay St. James City Verified; Not Recovered (@) Lee 8-Dec MSW19182 M 275 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 8-Dec MSW19183 U 270 (est) Imperial River Bonita Springs Verified; Not Recovered (@) Lee 9-Dec MSW19185 F 180 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19185 F 180 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19187 U 200 (est) Hendry Creek Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19188 U 275 (est) Pine Island Soud Sanibel Verified; Not Recovered (@)						•		. , ,
Lee 26-Nov MSW19165 M 194 Big Carlos Pass Ft. Myers Beach Natural; Other (Red Tide) Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (@) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (@) Lee 29-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19172 F 289 San Carlos Pass Ft. Myers Natural; Other (Red Tide) Lee 5-Dec MSW19174 M 285 Charlotte Harbor Punta Gorda Natural; Other (Red Tide) Lee 3-Dec MSW19175 M 305 Matlacha Pass Cape Coral Verified; Not Recovered (@) Lee 6-Dec MSW19176 M 179 Matlacha Pass Cape Coral Natural; Other (Red Tide) Sarasota 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 6-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 7-Dec MSW19180 M 265 (est) Estero Bay Bonita Springs Verified; Not Recovered (@) Lee 7-Dec MSW19181 M 215 (est) San Carlos Bay St. James City Verified; Not Recovered (@) Lee 7-Dec MSW19183 U 270 (est) Imperial River Bonita Springs Verified; Not Recovered (@) Lee 8-Dec MSW19184 F 312 Caloosahatchee River Cape Coral Verified; Not Recovered (@) Lee 9-Dec MSW19185 F 180 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19187 U 200 (est) Hendry Creek Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19188 U 275 (est) Pine Island Soud Sanibel Verified; Not Recovered (@)						•		. ,
Lee 26-Nov MSW19166 F 333 Imperial River Bonita Springs Verified; Not Recovered (@) Lee 28-Nov MSW19168 M 185 (est) San Carlos Pass Punta Rassa Verified; Not Recovered (@) Lee 29-Nov MSW19169 M 230 (est) Matanzas Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 30-Nov MSW19170 F 185 Gulf of Mexico Sanibel Natural; Other (Red Tide) Lee 3-Dec MSW19172 F 289 San Carlos Pass Ft. Myers Natural; Other (Red Tide) Lee 5-Dec MSW19174 M 285 Charlotte Harbor Punta Gorda Natural; Other (Red Tide) Lee 3-Dec MSW19175 M 305 Matlacha Pass Cape Coral Verified; Not Recovered (@) Lee 6-Dec MSW19176 M 179 Matlacha Pass Cape Coral Natural; Other (Red Tide) Sarasota 6-Dec MSW19177 M 233 Lemon Bay Englewood Natural; Other (Red Tide) Lee 6-Dec MSW19178 F 200 (est) Little Carlos Pass Ft. Myers Beach Verified; Not Recovered (@) Lee 7-Dec MSW19180 M 265 (est) Estero Bay Bonita Springs Verified; Not Recovered (@) Lee 7-Dec MSW19181 M 215 (est) San Carlos Bay St. James City Verified; Not Recovered (@) Lee 8-Dec MSW19183 U 270 (est) Imperial River Bonita Springs Verified; Not Recovered (@) Lee 8-Dec MSW19185 F 180 (est) Ten Mile Canal Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19186 M 250 (est) Charlotte Harbor Bokeelia Verified; Not Recovered (@) Lee 9-Dec MSW19187 U 200 (est) Hendry Creek Ft. Myers Verified; Not Recovered (@) Lee 9-Dec MSW19188 U 275 (est) Pine Island Soud Sanibel Verified; Not Recovered (@)					` '			
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Lee 9-Dec MSW19188 U 275 (est) Pine Island Soud Sanibel Verified; Not Recovered (@)					, ,			, ,
					, ,	•	•	
	Charlotte		MSW19189	М	195	Placida Harbor	Placida	Natural; Other (+)

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Lee	10-Dec	MSW19191	F	245 (est)	Caloosahatchee River	North Ft. Myers	Verified; Not Recovered (@)
Collier	11-Dec	MSW19192	М	225	Sanctuary Sound	Marco Island	Verified; Not Recovered (@)
Lee	11-Dec	MSW19193	U	185 (est)	Charlotte Harbor	Cape Coral	Verified; Not Recovered (@)
Lee	11-Dec	MSW19194	F	260 (est)	Spring Creek	Bonita Springs	Verified; Not Recovered (@)
Lee	11-Dec	MSW19195	U	275 (est)	Matlacha Pass	Cape Coral	Verified; Not Recovered (@)
Lee	11-Dec	MSW19196	М	301	Matlacha Pass	Matlacha	Verified; Not Recovered (@)
Lee	12-Dec	MSW19197	F	340 (est)	Big Carlos Pass	Ft. Myers Beach	Verified; Not Recovered (@)
Lee	13-Dec	MSW19198	М	322	Little Carlos Pass	Ft. Myers Beach	Verified; Not Recovered (@)
Lee	13-Dec	MSW19199	U	260 (est)	Gulf of Mexico	Bonita Springs	Verified; Not Recovered (@)
Lee	13-Dec	MSW19200	М	185 (est)	Charlotte Harbor	Boca Grande	Verified; Not Recovered (@)
Charlotte	13-Dec	MSW19201	F	245 (est)	Charlotte Harbor	Port Charlotte	Verified; Not Recovered (@)
Lee	13-Dec	MSW19202	F	215 (est)	San Carlos Bay	St. James City	Verified; Not Recovered (@)
Sarasota	14-Dec	MSW19203	М	239	Forked Creek	Englewood	Natural; Other (Red Tide)
Lee	14-Dec	MSW19204	U	125 (est)	Caloosahatchee River	Cape Coral	Verified; Not Recovered (@)
Lee	15-Dec	MSW19205	U	215 (est)	Caloosahatchee River	Ft. Myers	Verified; Not Recovered (@)
Lee	15-Dec	MSW19206	М	215 (est)	Charlotte Harbor	Punta Gorda	Verified; Not Recovered (@)
Lee	15-Dec	MSW19207	F	275 (est)	Matlacha Pass	Matlacha	Verified; Not Recovered (@)
Lee	15-Dec	MSW19208	М	185 (est)	Caloosahatchee River	Ft. Myers	Verified; Not Recovered (@)
Sarasota	15-Dec	MSW19209	F	245 (est)	Lemon Bay	Englewood	Verified; Not Recovered (@)
Lee	16-Dec	MSW19210	М	318	Charlotte Harbor	Bokeelia	Verified; Not Recovered (@)
Lee	16-Dec	MSW19211	М	275 (est)	Gasparilla Sound	Boca Grande	Verified; Not Recovered (@)
Lee	16-Dec	MSW19212	М	250 (est)	Matlacha Pass	Matlacha	Verified; Not Recovered (@)
Charlotte	18-Dec	MSW19213	М	245 (est)	Peace River	Port Charlotte	Verified; Not Recovered (@)
Lee	18-Dec	MSW19214	U	260 (est)	Big Carlos Pass	Ft. Myers Beach	Verified; Not Recovered (@)
Lee	19-Dec	MSW19215	F	250 (est)	Matanzas Pass	Ft. Myers Beach	Verified; Not Recovered (@)
Lee	19-Dec	MSW19216	U	250 (est)	Gulf of Mexico	Sanibel	Verified; Not Recovered (@)
Lee	20-Dec	MSW19217	М	275 (est)	Matlacha Pass	Cape Coral	Verified; Not Recovered (@)
Lee	20-Dec	MSW19218	М	270 (est)	Imperial River	Bonita Springs	Verified; Not Recovered (@)
Lee	20-Dec	MSW19219	F	150 (est)	Manatee Bay	St. James City	Verified; Not Recovered (@)
Lee	20-Dec	MSW19220	М	245 (est)	Pine Island Soud	St. James City	Verified; Not Recovered (@)
Lee	20-Dec	MSW19221	U	275 (est)	Imperial River	Bonita Springs	Verified; Not Recovered (@)
Lee	20-Dec	MSW19222	U	185 (est)	Pine Island Soud	St. James City	Verified; Not Recovered (@)
Lee	21-Dec	MSW19223	М	300 (est)	Matlacha Pass	Matlacha	Verified; Not Recovered (@)
Lee	21-Dec	MSW19224	М	231	San Carlos Pass	Sanibel	Verified; Not Recovered (@)
Lee	21-Dec	MSW19225	М	250 (est)	Caloosahatchee River	Cape Coral	Verified; Not Recovered (@)
Sarasota	23-Dec	MSW19226	U	265 (est)	Myakka River	North Port	Verified; Not Recovered (@)
Sarasota	23-Dec	MSW19227	U	185 (est)	Forked Creek	Englewood	Verified; Not Recovered (@)
Lee	24-Dec	MSW19228	U	250 (est)	Gasparilla Sound	Placida	Verified; Not Recovered (@)
Lee	28-Dec	MSW19229	U	200 (est)	Charlotte Harbor	Punta Gorda	Verified; Not Recovered (@)
Lee	24-Dec	MSW19230	М	259	Orange River	Ft. Myers	Undetermined; Too Decomposed (+)
Lee	26-Dec	MSW19231	U	275 (est)	Estero Bay	Ft. Myers Beach	Verified; Not Recovered (@)
Lee	28-Dec	MSW19232	F	200 (est)	Jug Creek	Bokeelia	Verified; Not Recovered (@)
Lee	31-Dec	MSW19234	U	245 (est)	Caloosahatchee River	Cape Coral	Verified; Not Recovered (@)
Lee	31-Dec	MSW19235	F	250	Caloosahatchee River	Ft. Myers	Natural; Other (Red Tide)
Lee	31-Dec	MSW19173	F	258	Imperial River	Bonita Springs	Natural; Other (Red Tide)
Lee	28-Dec	MSW19236	U	275 (est)	San Carlos Bay	Ft. Myers	Verified; Not Recovered (@)

 ${\cal F}$ Indicates a Field Necropsy was Performed.

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

Red Tide Positive = 20 Red Tide Suspect = 6 Red Tide Possible = 66 Red Tide Total = 92 (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.

For a list of all 2019 carcasses to date, see:

https://myfwc.com/research/manatee/rescue-mortality-response/statistics/mortality/2019/.