

**FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION**  
**MARINE MAMMAL PATHOBIOLOGY LABORATORY**  
**1989 Final Manatee Mortality Table by County**  
**From: 01/01/1989 To: 12/31/1989**

| County        | Watercraft | Flood Gate/Canal Lock | Other Human | Perinatal | Cold Stress | Natural | Undetermined | Unrecovered | Total |
|---------------|------------|-----------------------|-------------|-----------|-------------|---------|--------------|-------------|-------|
| Brevard       | 10         | 1                     | 0           | 10        | 4           | 7       | 4            | 1           | 37    |
| Broward       | 3          | 0                     | 0           | 1         | 0           | 0       | 0            | 0           | 4     |
| Charlotte     | 2          | 0                     | 1           | 0         | 0           | 1       | 6            | 0           | 10    |
| Citrus        | 2          | 0                     | 0           | 0         | 0           | 1       | 2            | 0           | 5     |
| Collier       | 7          | 0                     | 0           | 7         | 0           | 1       | 4            | 0           | 19    |
| DeSoto        | 0          | 0                     | 0           | 0         | 0           | 0       | 1            | 0           | 1     |
| Duval         | 6          | 0                     | 1           | 3         | 4           | 2       | 4            | 0           | 20    |
| Flagler       | 0          | 0                     | 0           | 0         | 1           | 1       | 0            | 0           | 2     |
| Franklin      | 0          | 0                     | 0           | 0         | 0           | 0       | 1            | 0           | 1     |
| Glades        | 2          | 0                     | 0           | 0         | 0           | 0       | 0            | 0           | 2     |
| Hillsborough  | 0          | 0                     | 1           | 2         | 2           | 0       | 0            | 0           | 5     |
| Indian River  | 2          | 0                     | 0           | 3         | 0           | 0       | 0            | 0           | 5     |
| Lake          | 1          | 0                     | 0           | 0         | 0           | 0       | 0            | 0           | 1     |
| Lee           | 0          | 0                     | 0           | 5         | 0           | 2       | 9            | 0           | 16    |
| Manatee       | 0          | 0                     | 0           | 1         | 0           | 0       | 0            | 0           | 1     |
| Martin        | 2          | 2                     | 0           | 1         | 0           | 0       | 2            | 0           | 7     |
| Miami-Dade    | 3          | 0                     | 0           | 0         | 0           | 0       | 0            | 0           | 3     |
| Monroe        | 1          | 0                     | 0           | 0         | 0           | 0       | 3            | 0           | 4     |
| Nassau        | 0          | 0                     | 0           | 0         | 1           | 0       | 2            | 0           | 3     |
| Palm Beach    | 0          | 0                     | 0           | 1         | 0           | 0       | 0            | 0           | 1     |
| Pinellas      | 3          | 0                     | 0           | 0         | 0           | 0       | 0            | 0           | 3     |
| Putnam        | 2          | 0                     | 0           | 0         | 0           | 0       | 0            | 0           | 2     |
| Sarasota      | 2          | 0                     | 0           | 0         | 0           | 2       | 1            | 0           | 5     |
| St. Johns     | 0          | 0                     | 0           | 0         | 1           | 0       | 0            | 0           | 1     |
| St. Lucie     | 1          | 0                     | 0           | 2         | 0           | 1       | 0            | 0           | 4     |
| Volusia       | 1          | 0                     | 2           | 2         | 1           | 0       | 0            | 0           | 6     |
| <b>TOTAL:</b> | 50         | 3                     | 5           | 38        | 14          | 18      | 39           | 1           | 168   |