

Chesapeake Bay Oyster Population Estimation

Monitoring Program: SENTINEL SITES **State:** MARYLAND **Year:** 1999

[Sentinel Sites in Maryland](#)

Sentinel sites have been established in Maryland tributaries of the Chesapeake Bay to facilitate monitoring of oyster populations at specific locations over time. The term "sentinel site" is used to describe a monitoring station for which long-term monitoring data are available. Monitoring at the sentinel sites is being performed by the Maryland Department of Natural Resources. The monitoring program was established to track oyster population and disease levels baywide. Replenishment and restoration activities are in progress near many of the existing sentinel sites.

[Monitoring Data Notes](#)

Oyster populations at sentinel sites are evaluated using annual dredge survey data. All of the sentinel site locations are sampled annually by scientists from the Maryland Department of Natural Resources. Two half-bushel samples are collected. Data for these stations is reported using oyster counts and individual oyster shell measurements.

This summary sheet was assembled at the Maryland Department of Natural Resources by Kelly Greenhawk and Jessica Vanisko.

Chesapeake Bay Oyster Population Estimation: Sentinel Sites

State: Maryland

Year: 1999

Basin	Water Body	Area	No. of samples	Oysters/bushel*	Biomass/bushel**
Chester	Chester River	Buoy Rock	2	138	155.9
Chester	Chester River	Old Field	2	220	248.6
Choptank	Broad Creek	Deep Neck	2	294	332.2
Choptank	Choptank	Cook Point	2	47	53.1
Choptank	Choptank	Lighthouse	2	163	184.2
Choptank	Choptank	Oystershell Point	2	106	119.8
Choptank	Choptank	Royston	2	134	151.4
Choptank	Choptank	Sandy Hill	2	150	169.5
Choptank	Choptank	Tilghman Wharf	2	294	332.2
Choptank	Tred Avon River	Double Mills	2	92	104
Eastern Bay	Eastern Bay	Bugby	2	209	236.2
Eastern Bay	Eastern Bay	Hollicutts Noose	2	87	98.3
Eastern Bay	Eastern Bay	Parsons Island	2	10	11.3
Eastern Bay	Miles River	Bruffs Island	2	254	287
Eastern Bay	Miles River	Long Point	2	371	419.2
Eastern Bay	Miles River	Turtle Back	2	257	290.4
Little Choptank	Little Choptank	Cason	2	145	163.9
Little Choptank	Little Choptank	Ragged Point	2	117	132.2
Mainstem	Bay North	Swan Point	2	172	194.4
Mainstem	Mid-Eastern Shore	Stone Rock	2	99	111.9
Mainstem	Upper Bay	Hacketts	2	38	42.9
Mainstem	Western Shore	Butlers	2	23	26
Mainstem	Western Shore	Flagpond	2	1	1.1
Mainstem	Western Shore	Hog Island	2	19	21.5
Mainstem	Western Shore	Holland Point	2	37	41.8
Patuxent	Patuxent River	Broome Island	2	39	44.1
Potomac	Potomac River	Cornfield Harbor	2	16	18.1
Potomac	Potomac River	Lower Cedar Point	2	0	0
Potomac	Potomac River	Ragged Point	2	28	31.6
Potomac	St. Mary's River	Chickencock	2	24	27.1
Potomac	St. Mary's River	Pagan	2	396	447.5
Potomac	West Wicomico	Lancaster	2	93	105.1
Potomac	West Wicomico	Mills West	2	37	41.8
Tangier	Fishing Bay	Goose Creek	2	18	20.3
Tangier	Holland Straits	Holland Straits	2	41	46.3
Tangier	Honga River	Normans	2	22	24.9
Tangier	Manokin River	Georges	2	46	52
Tangier	Nanticoke River	Wilson Shoal	2	74	83.6
Tangier	Pocomoke Sound	Marumsco	2	98	110.7
Tangier	Tangier Sound	Back Cove	2	46	52
Tangier	Tangier Sound	Old Womans Leg	2	39	44.1
Tangier	Tangier Sound	Piney Island	2	333	376.3
Tangier	Tangier Sound	Sharkfin Shoals	2	23	26

* total number of oysters from 2 half bushel samples combined

** reported as grams dry weight per bushel