



Chesapeake Bay Program
A Watershed Partnership

Background

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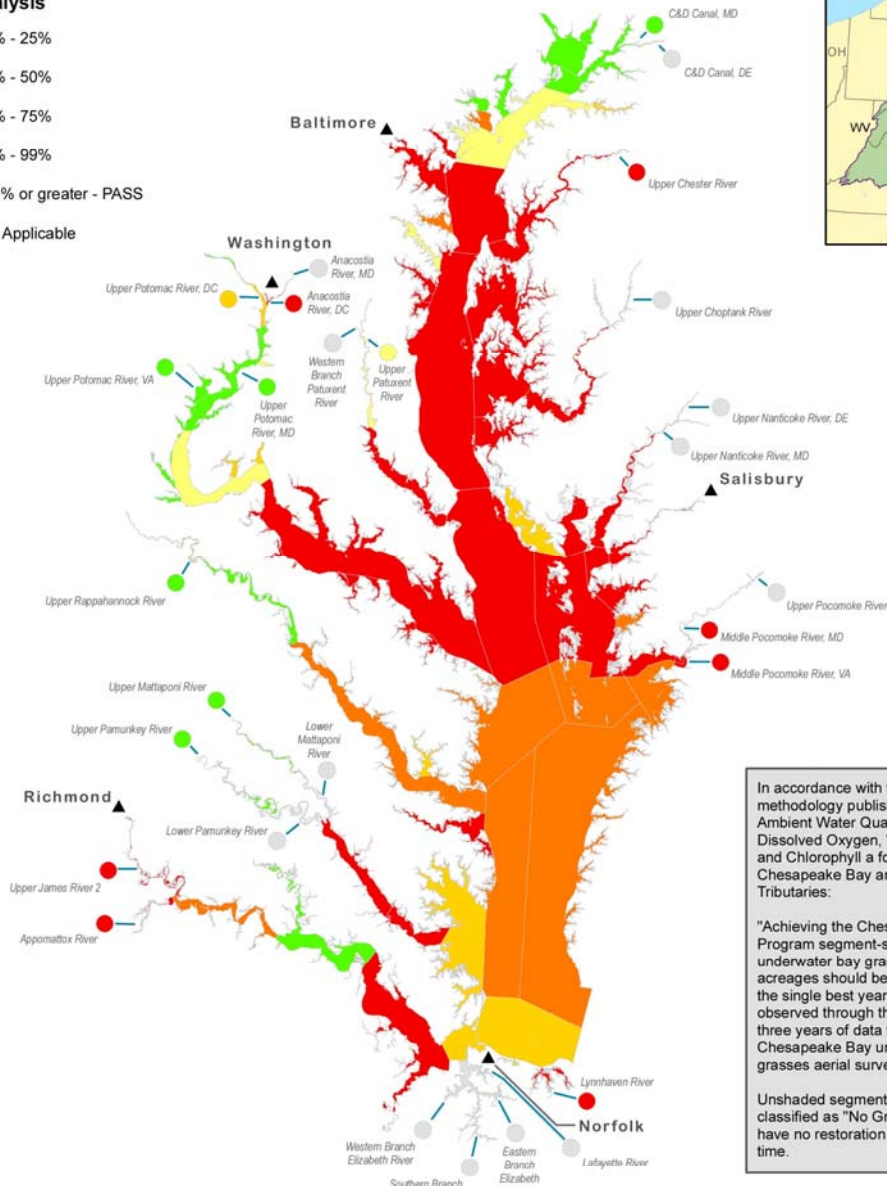
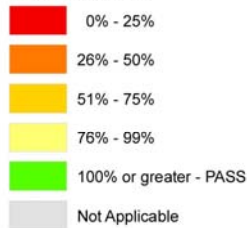
Bay Grasses (SAV) Restoration Goal Achievement

Single Best Year 2006 - 2008



Percent of Goal Achieved

3-year Analysis

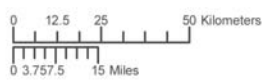


In accordance with the methodology published in Ambient Water Quality Criteria for Dissolved Oxygen, Water Clarity and Chlorophyll a for the Chesapeake Bay and Its Tidal Tributaries:

"Achieving the Chesapeake Bay Program segment-specific underwater bay grass restoration acreages should be measured as the single best year of acreage as observed through the most recent three years of data from the Chesapeake Bay underwater bay grasses aerial survey."

Unshaded segments are classified as "No Grow Zones" or have no restoration goal at this time.

Data Sources: VIMS, Chesapeake Bay Program
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Created by HW, 3/24/09

UTM Zone 18N, NAD 83

Upper Bay Zone

In the Upper Bay Zone (21 segments extending south from the Susquehanna River to the Bay Bridge), underwater bay grasses increased 21 percent from 18,922 acres in 2007 to 22,954 acres in 2008.

Ten of the 21 segments increased by at least 20 percent and by at least 12 acres from 2007 totals:

- ↑ 21%, Northern Chesapeake Bay Segment: 1,833 acres (2007) vs. 1,008 acres (2008)
- ↑ 21%, Northern Chesapeake Bay Segment 2: 11,725 acres (2007) vs. 14,194 acres (2008)
- ↑ 59%, Northeast River: 116 acres (2007) vs. 183 acres (2008)
- ↑ 70%, Upper Chesapeake Bay: 373 acres (2007) vs. 633 acres (2008)
- ↑ 50%, Sassafras River Segment: 1,368 acres (2007) vs. 551 acres (2008)
- ↑ 1204%, Sassafras River Segment 2: 5 acres (2007) vs. 52 acres (2008)
- ↑ 40%, Gunpowder River Segment 1: 558 acres (2007) vs. 783 acres (2008)
- ↑ 50%, Middle River: 551 acres (2007) vs. 828 acres (2008)
- ↑ 53%, Upper Central Chesapeake Bay: 124 acres (2007) vs. 188 acres (2008)
- ↑ 23%, Lower Chester River: 67 acres (2007) vs. 84 acres (2008)

None of the 21 segments decreased by at least 20 percent and by at least 12 acres from 2007 totals.

Two of the 21 segments remained unvegetated in 2008.

Segment	Acres of SAV & Goal Attained			
	2007	2008	Restoration Goal	2008 % of goal
Northern Chesapeake Bay Segment 1	834	1007	754	134
Northern Chesapeake Bay Segment 2	11726	14194	12149	117
Northern Chesapeake Bay Total	12560	15202	12903	118
Northeast River	115	183	89	205
Elk River Segment 1	1590	1907	1844	103
Elk River Segment 2	391	440	190	232
Elk River Total	1980	2347	2034	115
Bohemia River	579	528	354	149
Chesapeake & Delaware Canal	2	12	7	174
Upper Chesapeake Bay	373	633	705	90
Sassafras River Segment 1	368	552	1073	51
Sassafras River Segment 2	4	53	95	56
Sassafras River Total	372	605	1168	52
Bush River	643	519	350	148
Gunpowder River Segment 1	559	783	1860	42
Gunpowder River Segment 2	906	937	572	164
Gunpowder River Total	1465	1719	2432	71
Middle River	550	827	879	94
Back River	0	0	340	0
Upper Central Chesapeake Bay	124	189	1370	14
Patapsco River	9	18	389	5
Magothy River	83	90	579	15
Lower Chester River	68	83	2928	3
Middle Chester River	0	0	77	0
Upper Chester River	0	0	230	0
Upper Chesapeake Bay Total:	18922	22954	23630	97

Middle Bay Zone

In the Middle Bay Zone (44 segments extending south from the Bay Bridge to the Potomac River), underwater bay grasses increased 15 percent from 29,992 acres in 2007 to 34,521 acres in 2008.

Seven of the 44 segments increased by at least 20 percent and by at least 12 acres from 2007 totals:

- ↑ 67%, Lower Central Chesapeake Bay: 1,846 acres (2007) vs. 3,081 acres (2008)
- ↑ 99%, Honga River: 1,992 acres (2007) vs. 3,964 acres (2008)
- ↑ 100%, Fishing Bay: 0 acres (2007) vs. 22 acres (2008)
- ↑ 45%, Manokin River Segment: 1,284 acres (2007) vs. 415 acres (2008)
- ↑ 26%, Big Annemessex River Segment: 1,571 acres (2007) vs. 722 acres (2008)
- ↑ 27%, Lower Pocomoke River: 1,100 acres (2007) vs. 1,396 acres (2008)
- ↑ 266%, Middle Patuxent River: 27 acres (2007) vs. 101 acres (2008)

Four of the 44 segments decreased by at least 20% and by at least 12 acres from 2007 totals:

- ↓ 63%, Mouth of the Choptank River: 1,258 acres (2007) vs. 460 acres (2008)
- ↓ 43%, Little Choptank River: 141 acres (2007) vs. 82 acres (2008)
- ↓ 82%, Lower Patuxent River Segment 1: 37 acres (2007) vs. 7 acres (2008)
- ↓ 42%, Lower Potomac River: 677 acres (2007) vs. 395 acres (2008)

Twenty-one of the 44 segments remained unvegetated in 2008.

Segment	Middle Chesapeake Bay Region			
	2007	2008	Restoration Goal	2008 % of goal
Middle Central Chesapeake Bay	0	0	2533	0
Eastern Bay	80	90	6209	1
Mouth of the Choptank River	1257	460	8184	6
Lower Choptank River	0	0	1621	0
Middle Choptank River	0	0	72	0
Upper Choptank River	0	0	NGZ	N/A
Little Choptank River	141	80	4076	2
Severn River	326	311	455	68
South River	8	0	479	0
Rhode River	0	0	60	0
West River	0	0	238	0
Lower Central Chesapeake Bay MD	504	1134	8270	14
Lower Central Chesapeake Bay VA	1342	1948	7633	26
Lower Central Chesapeake Bay Total	1846	3082	15903	19
Honga River	1993	3965	7761	51
Fishing Bay	0	22	197	11
Lower Nanticoke River	0	0	3	0
Middle Nanticoke River	0	0	12	0
Upper Nanticoke River	0	0	NGZ	N/A
Wicomico River	0	0	3	0
Tangier Sound Segment 1 MD	4204	5077	24683	21
Tangier Sound Segment 1 VA	5382	5846	13579	43
Tangier Sound Segment 2 (MD)	0	0	74	0
Tangier Sound Total	9586	10923	38336	28
Manokin River Segment 1	285	415	4294	10
Manokin River Segment 2	0	0	59	0
Manokin River Total	285	415	4353	10
Big Annemessex River Segment 1	571	722	2021	36
Big Annemessex River Segment 2	0	0	22	0
Big Annemessex River Total	571	722	2043	35

Middle Chesapeake Bay Region (cont.)				
Lower Pocomoke River Maryland	36	80	877	9
Lower Pocomoke River Virginia	1063	1317	4066	32
Lower Pocomoke River Total	1099	1397	4943	28
Middle Pocomoke River	0	0	22	0
Upper Pocomoke River	0	0	NGZ	N/A
Lower Patuxent River Segment 1	37	7	1459	0
Lower Patuxent River Segment 2	0	0	172	0
Lower Patuxent River Segment 3	0	0	NZG	N/A
Lower Patuxent River Segment 4	0	0	1	0
Lower Patuxent River Segment 5	0	0	2	0
Lower Patuxent River Segment 6	0	0	NZG	N/A
Lower Patuxent River Total	37	7	1634	0
Middle Patuxent River	28	102	115	88
Upper Patuxent River	116	132	205	64
Western Branch of the Patuxent River	0	0	0	N/A
Lower Potomac River Maryland	678	396	7088	6
Lower Potomac River Virginia	0	0	4250	0
Lower Potomac River Total	678	396	11338	3
Middle Potomac River Segment 1 MD	1169	1220	1387	88
Middle Potomac River Segment 1 VA	2677	2759	1503	184
Middle Potomac River Segment 2 (MD)	155	175	262	67
Middle Potomac River Segment 3 (MD)	97	106	1153	9
Middle Potomac River Total	4098	4259	4305	99
Upper Potomac River DC	204	243	383	63
Upper Potomac River MD	2821	3151	2142	147
Upper Potomac River VA	3225	3123	2093	149
Upper Potomac River Total	6253	6517	4618	141
Mattawoman Creek	833	877	792	111
Piscataway Creek	757	765	789	97
Anacostia River (DC)	0	0	6	0
Middle Zone Total:	29992	34521	115229	30

Lower Bay Zone

In the Lower Bay Zone (28 segments covering the region south from the Maryland/Virginia line to the mouth of the Bay), underwater bay grasses increased 21 percent from 16,004 acres in 2007 to 19,386 acres in 2008.

Eight of the 28 segments increased by at least 20 percent and by at least 12 acres from 2007 totals:

- ↑ 21%, Eastern Lower Chesapeake Bay: 5,135 acres (2007) vs. 6,230 acres (2008)
- ↑ 44%, Lower Rappahannock River: 423 acres (2007) vs. 610 acres (2008)
- ↑ 29%, Corrotoman River: 361 acres (2007) vs. 465 acres (2008)
- ↑ 49%, Upper Rappahannock River: 74 acres (2007) vs. 109 acres (2008)
- ↑ 25%, Piankatank River: 279 acres (2007) vs. 346 acres (2008)
- ↑ 29%, Mobjack Bay: 6,185 acres (2007) vs. 7,977 acres (2008)
- ↑ 26%, Lower York River: 368 acres (2007) vs. 462 acres (2008)
- ↑ 218%, Middle James River: 10 acres (2007) vs. 35 acres (2008)

One of the 28 segments decreased by at least 20% and by at least 12 acres from 2007 totals.

- ↓ 25%, Chickahominy River: 1,055 acres (2007) vs. 786 acres (2008)

Eleven segments remained unvegetated in 2008.

Segment	Lower Chesapeake Bay Region			
	2007	2008	Restoration Goal	2008 % of goal
Western Lower Chesapeake Bay	396	446	1267	35
Eastern Lower Chesapeake Bay	5135	6228	15107	41
Lower Rappahannock River	422	609	1700	36
Corrotoman River	361	465	768	61
Middle Rappahannock River	0	8	4	196
Upper Rappahannock River	73	109	66	165
Piankatank River	278	347	3479	10
Mobjack Bay	6184	7977	15901	50
Lower York River	368	462	2793	17
Middle York River	0	0	239	0
Lower Mattaponi River	0	0	NZG	N/A
Upper Mattaponi River	397	424	85	499
Lower Pamunkey River	0	0	NZG	N/A
Upper Pamunkey River	812	922	187	493
Mouth of the James River	199	208	300	69
Lower James River	0	0	200	0
Lower Elizabeth River	0	0	NGZ	N/A
Western Branch of the Elizabeth River	0	0	NGZ	N/A
South Branch of the Elizabeth River	0	0	NGZ	N/A
Eastern Branch of the Elizabeth River	0	0	NGZ	N/A
Lafayette River	0	0	NGZ	N/A
Chickahominy River	1055	787	535	147
Middle James River	11	34	15	224
Upper James River Segment 1	305	352	1000	35
Upper James River Segment 2	0	0	200	0
Upper James River Total	305	352	1200	29
Appomattox River	0	0	379	0
Mouth of the Chesapeake Bay	6	6	11	59
Lynnhaven & Broad Bays	2	1	107	1
Lower Zone Total:	16004	19386	46030	42