

Table 1. Summary of potential areas of oyster replenishment and restoration activity for the 2025 Oyster Replenishment Plan.

	Acreage	Bushels Needed (1,000)	Cost Estimate (\$4/bu)
Total Most in Need of Replenishment (Shell Volume less than 5L)	4,338	4,338,000	\$ 17,352,000
Total in Need of Replenishment (Shell volume less than 10L)	6,371	6,371,000	\$ 25,484,000
Total Targeted*	881	881,000	\$ 3,504,000

* This includes the cost of seed, shell and rock plantings, it does not include any areas outline in Table 3

COLOR LEGEND	
Most in need	Shell volume less than 5L
In need	Shell volume less than 10L
Not in need unless open to harvest	Shell volume greater than 10L
New Area	

Table 2. Areas available for oyster replenishment and restoration activity for the 2025 Oyster Replenishment Plan.

- Notes:
- The cost estimate is based on average estimated price of \$4 per bushel for shell, \$8 per bushel equivalent of stone, and \$12 per bushel for seed and may include both seed and shell in some locations.
 - These are average prices based on a range of work that has been conducted in the past, the price paid will vary depending on location and the size of the project.
 - The average markets and Brown Shell Volume are derived from the annual VIMS/VMRC Joint oyster assessment survey.
 - Areas are targeted based on criteria outlined in the ORP that include brown shell volume and open harvest status, this incorporates the input of SMAC and the Commission.

Area Name	Average Number of Markets	Average Brown Shell Volume (L)	Acreage	Minium Bushels Needed (750 bu/acre)	Maximum Bushels Needed (1,000 bu/ac)	Cost Estimate	Notes (S=Sanctuary, H=Harvest Area, O=Open Area 24/25, T=Target for 2025 planting,	Funding Source (GF = General Funds, NGF =Non General Funds)	Substrate Type (F=Fossil Shell, A= Alternative Substrate/ Rocks, S =Seed)
James River									
LOWER JAIL ISLAND	1.2	1.0	150	112,500	150,000	\$600,000	H,O,T	GF	F
UPPER JAIL ISLAND	0.8	1.4	612	459,000	612,000	\$2,448,000	H,O		
OFFSHORE SWASH	1.1	1.7	641	480,750	641,000	\$2,564,000	H,O		
SWASH MUD SLOUGH	1.2	1.7	1,230	922,500	1,230,000	\$4,920,000	H,O		
OFFSHORE JAIL ISLAND	2.6	2.0	1,017	762,750	1,017,000	\$4,068,000	H,O		
DAYS POINT	1.4	3.2	275	206,250	275,000	\$1,100,000	H,O		
SWASH	1.8	3.9	201	150,750	201,000	\$804,000	H,O		
WRECK INSHORE	7.6	5.2	585	438,750	585,000	\$2,340,000	S		
LONG ROCK also Cross Rock	4.0	7.8	41	30,750	41,000	\$164,000	H,O		
CRUISER'S SHOAL	8.5	8.3	55	41,250	55,000	\$220,000	H,O,T	GF	F
NANSEMOND RIDGE	9.8	8.5	100	75,000	100,000	\$400,000	H,O,T	GF	F
SHANTY ROCK	5.5	8.5	3	2,250	3,000	\$12,000	H,O		
MULBERRY POINT	11.7	9.5	48	36,000	48,000	\$192,000	H,O		
White Shoal	14.6	9.8	26	19,500	26,000	\$104,000	H,O		
DOG SHOAL LOWER	21.4	10.6	35	26,250	35,000	\$140,000	H,O		
HIGH SHOAL	13.6	11.2	44	33,000	44,000	\$176,000	H,O		
THOMAS ROCK LOWER	21.4	11.2	93	69,750	93,000	\$372,000	H,O		
BALLARD'S MARSH	23.7	11.3	78	58,500	78,000	\$312,000	H,O		
UPPER DEEP WATER SHOAL	46.9	11.6	313	234,750	313,000	\$1,252,000	H,O		
HOTEL ROCK	8.8	12.6	14	10,500	14,000	\$56,000	H,O		
V-ROCK	20.1	13.3	76	57,000	76,000	\$304,000	H,O		
THOMAS ROCK UPPER	37.0	13.3	103	77,250	103,000	\$412,000	H,O		
Lower Brown Shoal	25.8	13.8	82	61,500	82,000	\$328,000	H,O		
LOWER HORSEHEAD	14.6	14.2	21	15,750	21,000	\$84,000	H,O		
SNYDER'S ROCK	26.7	14.3	9	6,750	9,000	\$36,000	H,O		
DRY LUMPS	29.0	16.0	6	4,500	6,000	\$24,000	H,O		
POINT OF SHOALS	31.5	16.0	155	116,250	155,000	\$620,000	H,O		
DOG SHOAL UPPER	32.6	17.4	13	9,750	13,000	\$52,000	H,O		

Upper Brown Shoal	32.8	18.4	23	17,250	23,000	\$92,000	H,O		
MOON ROCK	24.7	19.0	3	2,250	3,000	\$12,000	H,O		
TRIANGLE ROCK	36.0	19.0	7	5,250	7,000	\$28,000	H,O		
LOWER DEEP WATER SHOAL	37.5	19.3	20	15,000	20,000	\$80,000	H,O		
MIDDLE HORSEHEAD	53.1	21.6	44	33,000	44,000	\$176,000	H,O		
UPPER HORSEHEAD	58.5	28.0	5	3,750	5,000	\$20,000	H,O		

Area Name	Average Number of Markets	Average Brown Shell Volume (L)	Acreage	Minium Bushels Needed (750 bu/acre)	Maximum Bushels Needed (1,000 bu/ac)	Cost Estimate	Notes (S=Sanctuary, H=Harvest Area, O=Open Area 24/25, T=Target for 2025 planting)	Funding Source (GF = General Funds, NGF =Non General Funds)	Substrate Type (F=Fossil Shell, A= Alternative Substrate/ Rocks, S =Seed)
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York and Mobjack

Tow Stake East	4.0	2.8	6	4,500	6,000	\$24,000	H,O		
Sarah's Creek 2	4.8	4.4	14	10,500	14,000	\$56,000	S		
PULTZ BAR	6.7	5.5	14	10,500	14,000	\$56,000	H,O		
Brown's Bay #2	6.6	5.7	22	16,500	22,000	\$88,000	S		
Tow Stake West	4.8	6.0	3	2,250	3,000	\$12,000	H,O		
Timberneck	3.8	6.9	47	35,250	47,000	\$188,000	H,O,T	GF	F
Sarah's Creek 1	12.4	8.1	9	6,750	9,000	\$36,000	S		
Cheatham PG 1	8.0	8.5	2	1,500	2,000	\$8,000	S		
Brown's Bay #1	15.3	8.7	83	62,250	83,000	\$332,000	S		
Pages Rock	8.8	10.8	116	87,000	116,000	\$464,000	H,O		
Aberdeen Rock	11.0	10.9	45	33,750	45,000	\$180,000	H,O		
Indian Field PG 2	26.7	17.0	1	750	1,000	\$4,000	S		

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Piankatank/Deep Rock

THOMPSONS	1.0	1.3	1	750	1,000	\$4,000	S		
SHIPLEYS EDGE	0.0	1.5	1	750	1,000	\$4,000	S		

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Rappahannock River									
Mosquito Island	0.7	0.2	2	1,500	2,000	\$8,000	H		
Drumming Ground sanctuary	0.3	1.3	3	2,250	3,000	\$24,000	S,T	GF	A
Mill Creek sanctuary	18.8	4.8	4	3,000	4,000	\$32,000	S,T	GF	A
Bush Park	5.0	5.2	4	3,000	4,000	\$16,000	H		
Bush Park 2018 (Stone)	7.6	5.3	6	4,500	6,000	\$24,000	H		
Drumming Ground sanctuary	9.5	5.4	7	5,250	7,000	\$56,000	S,T	GF	A
Butler's Hole West	9.0	6.6	7	5,250	7,000	\$28,000	H,O,T	GF	F
Broad Creek Inshore	9.0	6.9	8	6,000	8,000	\$32,000	H,O,T	GF	F
Ferry Rock	7.3	7.0	4	3,000	4,000	\$16,000	H		
Parrot Rock sanctuary	11.0	7.3	10	7,500	10,000	\$40,000	S,T	GF	F
Lower Edge Broad Creek Midd	9.9	7.4	13	9,750	13,000	\$52,000	H,O,T	GF	F
Larsons Bay	11.7	7.5	2	1,500	2,000	\$8,000	S		
Broad Creek	10.2	7.8	16	12,000	16,000	\$64,000	H,O,T	GF	F
Lower Edge Broad Creek West	13.7	8.1	22	16,500	22,000	\$88,000	H,O,T	GF	F
Sturgeon Bar West (S.P. 552)	14.4	8.2	8	6,000	8,000	\$32,000	H		
Big Wicks B	7.3	8.3	24	18,000	24,000	\$96,000	H		
Corrotoman Point C-3	10.4	8.4	8	6,000	8,000	\$32,000	H		
MORATTICO BAR	7.2	8.6	121	90,750	121,000	\$484,000	H,O		
Larson's Lower sanctuary	18.3	8.7	3	2,250	3,000	\$12,000	S		
Lower Edge Broad Creek East	11.7	9.6	18	13,500	18,000	\$72,000	H,O		
Temple Bay 5	15.0	9.6	18	13,500	18,000	\$72,000	H,O,T	GF	F
Spike B offshore	13.0	9.8	6	4,500	6,000	\$24,000	H,O		
Little Wicks A	14.0	10.0	6	4,500	6,000	\$24,000	H,O		
Little Wicks B	19.3	10.0	7	5,250	7,000	\$28,000	H,O		
STOVE POINT	15.5	10.2	30	22,500	30,000	\$120,000	H,O		
Whiting Creek	16.8	10.3	13	9,750	13,000	\$52,000	H		
Corrotoman sanctuary	23.3	10.3	9	6,750	9,000	\$36,000	S		
Temple Bay sanctuary	12.3	10.3	9	6,750	9,000	\$36,000	S		
Corrotoman Point C-1	14.0	10.4	9	6,750	9,000	\$36,000	H		

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Great Wicomico/Black Berry									
VMRC 12/GW Corps 17	0.0	0.0	2	1,500	2,000	\$8,000	S		
Mill Creek East	1.3	0.6	2	1,500	2,000	\$8,000	H,O		
VMRC 15/GW Corps 21	2.3	1.3	3	2,250	3,000	\$12,000	S		
Cockrell Creek Expansion Sto	15.8	3.8	10	7,500	10,000	\$40,000	S		
VMRC 10/GW Corps 12, 13	10.3	5.3	5	3,750	5,000	\$20,000	S		
VMRC 8/GW Corps 9	3.1	5.4	14	10,500	14,000	\$56,000	S		
VMRC 9/GW Corps 10	6.3	5.5	7	5,250	7,000	\$28,000	S		
VMRC 3/GW Corps 4	1.7	5.7	3	2,250	3,000	\$12,000	S		
VMRC 13/GW Corps 18 & 19	2.0	6.3	6	4,500	6,000	\$24,000	S		
VMRC 11/GW Corps 14,15 & 1	4.8	6.7	14	10,500	14,000	\$56,000	S		
HILLY WASH	7.6	7.1	3	2,250	3,000	\$12,000	S		
HARCUM FLATS	7.5	7.5	6	4,500	6,000	\$24,000	S		
Dameron Marsh East	14.5	7.8	12	9,000	12,000	\$48,000	S		
ROGUE POINT	5.8	7.8	3	2,250	3,000	\$12,000	S		
INGRAM'S Bay South	9.2	10.0	9	6,750	9,000	\$36,000	H,O		
SANDY POINT	10.6	10.4	12	9,000	12,000	\$48,000	H,O		
VMRC 4/GW Corps 5	18.7	11.3	3	2,250	3,000	\$12,000	S		
Rogue Point Expansion Stone	9.3	11.5	5	3,750	5,000	\$20,000	S		
Shell Creek Expansion Stone 2	34.8	12.3	5	3,750	5,000	\$20,000	S		
Back Yard Stone 2021	6.3	12.5	5	3,750	5,000	\$20,000	S		
SHELL BAR	12.7	12.6	18	13,500	18,000	\$72,000	H,O		
VMRC 1/GW Corps 1&2	17.3	12.8	6	4,500	6,000	\$24,000	S		
CRANES CREEK also WHALEY	16.8	12.8	13	9,750	13,000	\$52,000	H,O		
Cockrell Creek	33.3	13.0	4	3,000	4,000	\$16,000	H,O		
HAYNIE POINT	23.4	13.0	5	3,750	5,000	\$20,000	H,O		
FLEET POINT	32.0	13.3	15	11,250	15,000	\$60,000	H,O		
VMRC 16/GW Corps 22, 23 & 1	20.0	14.0	7	5,250	7,000	\$28,000	S		
BLACKBERRY HANG	43.7	15.3	11	8,250	11,000	\$44,000	H,O		
INGRAM'S Bay North	15.0	18.0	22	16,500	22,000	\$88,000	H,O		

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Tangier/Pocomoke									
Public Ground #10 H-2	0.8	0.9	21	15,750	21,000	\$84,000	H,O		
Public Ground #10 H-1	4.0	3.8	70	52,500	70,000	\$280,000	H,O		
PG17 Parker's Rock A	2.2	4.4	34	25,500	34,000	\$136,000	H		
Public Ground #9 H-2	4.6	4.7	32	24,000	32,000	\$24,000	H,O,T	NGF/GF	S
Marshall's Rock	9.3	5.8	40	30,000	40,000	\$160,000	H,T	GF	F
Public Ground 11-1	6.7	6.1	37	27,750	37,000	\$148,000	H,O,T	GF	F
PG13 H-2	8.6	6.5	40	30,000	40,000	\$160,000	H,O,T	GF	F
PG13 H-5	6.0	6.5	19	14,250	19,000	\$76,000	H,O,T	GF	F
Public Ground #9 H-1	6.3	6.8	21	15,750	21,000	\$24,000	H,O	NGF/GF	S
PG07 H-3 Thoroughfare	10.8	6.9	26	19,500	26,000	\$104,000	H,O		
PG13 H-1	6.7	8.6	31	23,250	31,000	\$124,000	H,O,T	GF	F
PG13 H-4	9.8	8.8	28	21,000	28,000	\$112,000	H,O,T	GF	F
PG18 Onancock Rock A	5.3	9.0	10	7,500	10,000	\$40,000	H		
Byrd Rock	4.8	9.5	65	48,750	65,000	\$260,000	H		
PG08-H4 California Rock	15.0	10.0	15	11,250	15,000	\$60,000	H,O		
Island Rock	20.1	10.8	47	35,250	47,000	\$188,000	H		
PG13 H-3	19.8	10.8	24	18,000	24,000	\$104,000	H,O,T	NGF/GF	F/S
PG08-H2 California Rock	17.8	11.0	9	6,750	9,000	\$36,000	H,O		
PG07 H-5 Thoroughfare	14.8	11.8	9	6,750	9,000	\$36,000	H,O		
PG07 H-1 Thoroughfare	22.0	11.8	14	10,500	14,000	\$56,000	H,O		
PG04 Johnson's Rock	10.5	12.0	40	30,000	40,000	\$160,000	H		
PG05 H-1 Fox Island Rock	14.5	12.0	6	4,500	6,000	\$24,000	H		
PG08-H3 California Rock	10.3	12.3	7	5,250	7,000	\$28,000	H,O		
PG07 H-2 Thoroughfare	28.2	12.6	15	11,250	15,000	\$60,000	H,O		
PG08-H1 California Rock	24.0	13.3	9	6,750	9,000	\$36,000	H,O		
PG01 Hurley's	19.3	13.3	7	5,250	7,000	\$28,000	H,O		
PG07 H-4 Thoroughfare	23.0	14.3	4	3,000	4,000	\$16,000	H,O		
Cod Harbor	32.8	15.2	5	3,750	5,000	\$20,000	S		

Table 3. Additional areas with planned replenishment and restoration activity for the 2025 Oyster Replenishment Plan.

Note:
These are new areas that are not currently surveyed as part of the VIMS/VMRC survey.

Area Name	Acreage	Cost Estimate	Funding Source (GF = General Funds, NGF =Non General Funds, F =Federal)	Substrate Type (D=Dredge Shell, A= Alternative Substrate/ Rocks)
Eastern Shore Seaside	~15	\$200,000	NGF/GF	D
Eastern Shore Bayside	~15	\$225,000	NGF/GF	D
Mobjack Bay (2023 Project)	~20	\$750,000	F/NGF	A
Pocomoke	~40	\$160,000	GF	F
Black Berry Hangs	~10	\$24,000	GF/NGF	S