

12-2014

Summary Tables: Northumberland County, Virginia Shoreline Inventory Report

Marcia Berman

Virginia Institute of Marine Science

Karina Nunez

Virginia Institute of Marine Science

Sharon Killeen

Virginia Institute of Marine Science

Tamia Rudnicki


Virginia Institute of Marine Science

Julie Bradshaw

Virginia Institute of Marine Science

See next page for additional authors

Follow this and additional works at: <https://scholarworks.wm.edu/reports>

 Part of the [Environmental Indicators and Impact Assessment Commons](#), [Natural Resources Management and Policy Commons](#), and the [Water Resource Management Commons](#)

Recommended Citation

Berman, M.R., Nunez, K., Killeen, S., Rudnicki, T., Bradshaw, J., Duhring, K., Stanhope, D., Angstadt, K., Tombleson, C., Procopi, A., Weiss, D. and Hershner, C.H. 2014. Northumberland County, Virginia - Shoreline Inventory Report: Methods and Guidelines, SRAMSOE no.444, Comprehensive Coastal Inventory Program, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, Virginia, 23062

This Report is brought to you for free and open access by W&M ScholarWorks. It has been accepted for inclusion in Reports by an authorized administrator of W&M ScholarWorks. For more information, please contact wmpublish@wm.edu.

Authors

Marcia Berman, Karinna Nunez, Sharon Killeen, Tamia Rudnicki, Julie Bradshaw, Karen Duhring, David Stanhope, Kory Angstadt, Christine Tombleson, Alexandra Procopi, David Weiss, and Carl Hershner

Table 4. Northumberland County, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary 2014

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE			BARE			COMMERCIAL			FOREST total	GRASS			INDUSTRIAL			MILITARY			PAVED			RESIDENTIAL			SCRUB-SHRUB		
		no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total		no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total
Chesapeake Bay	40	2	3	4	0	0	0	0	0	0	15	<1	1	1	0	0	0	0	0	0	<1	0	<1	10	3	13	7	0	7
Coan River	31	1	6	7	0	0	0	1	0	1	9	1	1	2	0	0	0	0	0	0	<1	<1	1	8	2	10	1	1	2
Cockrell Creek	25	2	2	4	0	0	0	3	<1	3	1	2	<1	2	0	0	0	0	0	0	<1	<1	<1	13	2	15	<1	0	<1
Dividing Creek	34	2	6	9	<1	0	<1	<1	0	<1	3	1	1	2	0	0	0	0	0	0	<1	0	<1	15	4	19	<1	0	<1
Great Wicomico River	86	2	6	8	0	0	<1	1	<1	1	31	2	1	3	0	0	0	0	0	0	1	<1	1	24	17	41	1	0	1
Hull Creek	24	1	4	5	1	0	1	0	0	0	6	<1	<1	<1	0	0	0	0	0	0	<1	<1	<1	6	5	11	<1	0	<1
Indian Creek	28	<1	2	2	0	0	0	<1	0	<1	6	1	1	3	0	0	0	0	0	0	<1	<1	<1	13	3	16	1	0	1
Ingram Bay	38	2	5	7	<1	0	<1	<1	0	<1	7	1	<1	1	0	0	0	0	0	0	<1	<1	<1	12	6	18	3	1	3
Little Wicomico River	69	3	7	10	<1	0	<1	1	<1	1	14	1	1	2	0	0	0	0	0	0	<1	<1	1	29	9	38	3	<1	3
Potomac River	71	5	9	14	2	0	2	<1	0	<1	20	1	<1	1	0	0	0	0	0	0	1	0	1	25	6	31	2	0	2
The Glebe	25	2	2	5	0	0	0	1	0	1	3	1	<1	1	0	0	0	0	0	0	1	<1	1	12	3	15	<1	0	<1
Yeocomico River	39	3	4	7	0	0	0	1	0	1	9	1	1	3	0	0	0	0	0	0	1	<1	1	14	5	18	1	<1	1
Total	509	25	56	81	3	0	3	8	<1	8	124	13	9	21	0	0	0	0	0	0	4	2	7	179	65	245	17	1	19

*Total = does not include detached marsh or marsh island shoreline

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.

Table 5. Northumberland County, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary 2014

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT (miles)			BANK STABILITY (miles)		
		bare	partial	total	0-5 feet	5-30 feet	>30 feet	stable	unstable	unknown
Chesapeake Bay	40	1	3	37	39	1	0	34	5	2
Coan River	31	1	3	27	16	15	0	29	2	<1
Cockrell Creek	25	<1	5	20	24	1	0	21	3	<1
Dividing Creek	34	<1	8	26	32	2	0	25	9	<1
Great Wicomico River	86	2	16	68	38	48	0	64	21	1
Hull Creek	24	1	5	18	10	14	0	21	1	1
Indian Creek	28	<1	3	24	28	<1	0	25	3	<1
Ingram Bay	38	<1	5	33	29	9	0	30	7	1
Little Wicomico River	69	<1	13	56	54	15	0	62	6	1
Potomac River	71	1	5	64	53	18	0	60	5	6
The Glebe	25	<1	2	23	22	4	0	22	2	1
Yeocomico River	39	1	4	35	24	15	0	34	5	<1
Total	509	9	70	431	368	141	0	427	68	15

*Total = does not include detached marsh or marsh island shoreline

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.

Table 6. Northumberland County, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary 2014

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)					MARSH												PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES	
		total	field checked	embayed	extensive	fringe	marsh island	total	Community Type ¹ (acres)														
									I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII	DNS**		
Chesapeake Bay	8	229	92	11	136	93	37	277	2	0	<1	<1	0	0	0	2	0	0	0	58	214	38	June 17-18, 2014
Coan River	1	229	193	19	25	103	3	150	8	0	<1	4	10	<1	0	2	0	0	0	43	82	8	June 18-19, 2014
Cockrell Creek	<1	347	344	15	0	26	<1	41	17	<1	<1	3	0	0	0	5	0	0	0	16	<1	12	June 23-24, 2014
Dividing Creek	1	460	428	18	0	48	<1	66	23	0	1	<1	<1	<1	0	1	0	0	0	14	26	6	June 17-18, 2014
Great Wicomico River	4	878	746	36	2	164	4	206	13	<1	8	1	14	1	<1	3	0	0	0	65	101	6	June 19-20 & 23-24, 2014
Hull Creek	1	180	33	13	0	34	2	50	2	0	1	0	0	0	0	<1	0	0	0	1	45	12	June 19, 2014
Indian Creek	1	342	311	16	68	45	<1	129	21	0	13	<1	0	<1	0	2	0	0	0	19	74	7	June 16-17, 2014
Ingram Bay	2	499	419	19	31	57	10	117	9	0	5	0	8	<1	0	2	0	0	0	34	58	7	June 18-19 & 24, 2014
Little Wicomico River	1	735	667	85	0	76	5	167	37	<1	29	27	<1	1	0	7	0	0	0	46	18	10	June 17-18, 2014
Potomac River	14	348	1	68	0	160	6	234	0	0	0	0	0	0	0	0	0	0	0	<1	233	100	June 17, 2014
The Glebe	1	248	240	29	0	77	0	106	12	0	43	17	<1	2	0	2	0	0	0	24	7	17	June 18-19, 2014
Yeocomico River	2	388	363	38	0	60	<1	98	12	<1	2	7	4	13	0	12	0	0	<1	26	22	16	June 20 & 23, 2014
Total	37	603	195	365	263	944	68	1640	157	<1	101	60	36	18	<1	38	0	0	<1	348	880		

**DNS = Did Not Survey

¹Community Type: I = Saltmarsh Cordgrass / low marsh
 II = Saltmeadow / high marsh
 III = Black Needlerush
 IV = Saltbush
 V = Big Cordgrass
 VI = Cattail
 VII = Arrow Arum – Pickerel Weed
 VIII = Reed Grass (*Phragmites australis*)
 IX = Yellow Pond Lily
 X = Saltwort
 XI = Freshwater mix
 XII = Brackish mix

²Type VIII - Field checked marshes where *Phragmites australis* was estimated to cover >50% marsh area.

³Phragmites - percent of field checked marshes where *Phragmites australis* is present in any amount.

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.

Table 7. Northumberland County, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2014

RIVER SYSTEM	TOTAL* MILES SURVEYED	Number									Miles							
		docks	dilapidated docks	boathouses	ramps		marinas		wharfs	jetties	bulkhead	dilapidated bulkhead	debris	marsh toe revetment	riprap	unconventional	breakwater	groinfields
Chesapeake Bay	40	92	0	3	4	0	0	0	0	0	1	0	0	<1	5	0	<1	3
Coan River	31	154	2	29	16	0	0	1	3	3	1	0	0	<1	2	<1	<1	<1
Cockrell Creek	25	269	9	25	7	2	2	3	4	2	2	0	0	<1	5	<1	0	<1
Dividing Creek	34	232	3	7	17	0	0	0	1	8	1	<1	<1	1	9	<1	0	<1
Great Wicomico River	86	575	9	83	24	0	2	2	2	1	4	0	0	<1	7	<1	<1	1
Hull Creek	24	182	5	16	11	0	0	0	0	0	1	0	0	<1	1	0	0	<1
Indian Creek	28	264	1	14	9	1	2	0	1	1	2	0	0	<1	7	<1	<1	<1
Ingram Bay	38	244	2	20	5	1	1	0	0	4	2	0	0	<1	6	0	<1	2
Little Wicomico River	69	639	6	95	27	0	4	1	2	10	7	0	0	<1	7	<1	0	<1
Potomac River	71	473	10	10	12	0	2	0	0	4	5	<1	0	<1	11	0	1	9
The Glebe	25	261	1	27	9	0	2	0	0	1	2	0	0	<1	5	<1	<1	<1
Yeocomico River	39	208	17	71	10	1	2	1	1	0	3	0	0	<1	8	<1	<1	1
Total	509	3593	65	400	151	5	17	8	14	34	31	<1	<1	4	73	1	1	18

*Total = does not include detached marsh or marsh island shoreline

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.