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Summary Tables: 2012 Henrico County, Virginia Shoreline Inventory

Marcia Berman
Virginia Institute of Marine Science

Harry Berquist
Virginia Institute of Marine Science

Sharon Killeen
Virginia Institute of Marine Science

Carl H. Hershner
Virginia Institute of Marine Science

Karina Nunez
Virginia Institute of Marine Science

See next page for additional authors

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Authors

Marcia Berman, Harry Berquist, Sharon Killeen, Carl H. Hershner, Karinna Nunez, Karen Reay, Tamia Rudnicki, and Daniel E. Schatt

Table 4. Henrico County, Virginia Shoreline Attributes - Miles Surveyed and Inventory Dates - River System Summary

RIVER SYSTEM	Field Surveyed (miles)	Remote Surveyed (miles)	Total Miles Surveyed (field + remote)	FIELD SURVEY DATES
Fourmile Creek	3.54	3.73	7.27	June 4, 2012 and VBMP 2011 imagery
James River	50.25	11.53	61.78	June 4, 2012 and VBMP 2011 imagery
Turkey Island Creek	1.21	3.11	4.32	June 4, 2012 and VBMP 2011 imagery
Total	55	18.37	73.37	

Table 5. Henrico County, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE				BARE				COMMERCIAL				FOREST			GRASS				INDUSTRIAL				MILITARY				PAVED								
		no tree buffer	tree fringe only	fringe with canopy over-hang	total	no tree buffer	tree fringe only	fringe with canopy over-hang	total	no tree buffer	tree fringe only	fringe with canopy over-hang	total	no canopy over-hang	canopy over-hang	total	no tree buffer	tree fringe only	fringe with canopy over-hang	total	no tree buffer	tree fringe only	fringe with canopy over-hang	total	no tree buffer	tree fringe only	fringe with canopy over-hang	total	no tree buffer	tree fringe only	fringe with canopy over-hang	total					
Fourmile Creek	7.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.78	0.35	7.13	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
James River	61.78	0.78	0.43	5.32	6.53	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.27	23.50	21.65	45.15	2.99	0.98	1.04	5.01	0.40	0.14	0.37	0.91	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.19	0.00	0.00	0.00	0.19	
Turkey Island Creek	4.32	0.00	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52	0.59	3.11	0.00	0.95	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total	73.37	0.78	0.69	5.32	6.79	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.27	32.80	22.59	55.39	3.03	1.93	1.04	6.00	0.40	0.14	0.37	0.91	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.19	0.00	0.00	0.19		

RIVER SYSTEM	TOTAL* MILES SURVEYED	RESIDENTIAL				SCRUB-SHRUB			
		no tree buffer	tree fringe only	fringe with canopy over-hang	total	no tree buffer	tree fringe only	fringe with canopy over-hang	total
Fourmile Creek	7.27	0.01	0.03	0.00	0.04	0.06	0.00	0.00	0.06
James River	61.78	0.84	0.24	0.37	1.45	2.23	0.00	0.03	2.26
Turkey Island Creek	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	73.37	0.85	0.27	0.37	1.49	2.29	0.00	0.03	2.32

*Total = field + remote surveys (does not include marsh island shoreline)

Table 6. Henrico County, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT AND EROSION STATUS (miles of shore)																			
		bare	partial	full	0-5 FEET					5-10 FEET					10-30 FEET					>30 FEET				
					erosional/undercut	stable	transitional/undercut	erosional/undercut	stable	transitional/undercut	erosional/undercut	stable	transitional/undercut	erosional/undercut	stable	transitional/undercut								
Fourmile Creek	7.27	0.00	0.00	7.27	2.28	0.05	4.92	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
James River	61.78	0.46	3.08	58.23	15.94	0.41	35.46	1.61	0.00	5.05	0.16	1.54	0.35	0.00	1.18	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Turkey Island Creek	4.32	0.00	0.08	4.24	0.59	0.08	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	73.37	0.46	2.81	69.74	18.81	0.54	44.03	1.63	0.00	5.05	0.16	1.54	0.35	0.00	1.18	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*Total = field + remote surveys (does not include marsh island shoreline)

Table 7. Henrico County, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)					MARSH Community Type ¹ (acres)												PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES	
		total	field checked	embayed	extensive	fringe	marsh island	total	I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII			DNS**
Fourmile Creek	0.00	20	10	0.00	21.68	9.80	0.19	31.67	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00	22.94	0.00	6.05	0	June 4, 2012
James River	1.14	161	138	2.33	37.61	39.10	0.76	79.80	0.00	0.00	0.00	0.00	0.00	2.57	0.17	0.00	0.00	0.00	36.99	0.00	40.07	7	June 4, 2012
Turkey Island Creek	0.00	7	5	0.00	35.23	0.04	0.12	35.39	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	32.79	0.00	2.57	0	June 4, 2012
Total	1.14	188	153	2.33	94.52	48.94	1.07	146.86	0.00	0.00	0.00	0.00	0.00	2.57	2.87	0.00	0.00	0.00	92.72	0.00	48.69		

**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.

Table 8. Henrico County, Virginia Shoreline Attributes - Shoreline Features - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	No.										Miles of		Miles of		Miles of		Miles of	
		No. docks	dilapidated docks	No. boathouses	No. ramps private public		No. groinfields	No. marinas <50 slips >50 slips		No. jetties	No. breakwater ¹	Miles of debris	Miles of unconventional bulkhead	Miles of bulkhead	Miles of dilapidated bulkhead	Miles of marsh toe	Miles of riprap	Miles of w harf	
Fourmile Creek	7.27	1	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
James River	61.78	19	0	5	1	3	0	3	0	0	0	0	0.00	0.01	0.09	0.00	0.00	0.55	0.06
Turkey Island Creek	4.32	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	73.37	20	0	5	1	3	0	3	0	0	0	0	0.00	0.01	0.09	0.00	0.00	0.55	0.06

*Total = field + remote surveys (does not include marsh island shoreline)

¹ number of breakwater groups (one or more breakwaters within a group)