



Reports

2001

Summary Tables: Essex County and the Town of Tappahannock Shoreline Situation Report

Marcia Berman
Virginia Institute of Marine Science

Harry Berquist
Virginia Institute of Marine Science


Sharon Dewing
Virginia Institute of Marine Science

J. B. Glover
Virginia Institute of Marine Science

Carl Hershner
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 Monitoring Commons](#), [Natural Resources Management and Policy Commons](#), and the [Water Resource Management Commons](#)

Recommended Citation

Berman, M., Berquist, H., Dewing, S., Glover, J. B., Hershner, C., Rudnicky, T., Schatt, D., & Skunda, K. (2001) Summary Tables: Essex County and the Town of Tappahannock Shoreline Situation Report. Special Report in Applied Marine Science and Ocean Engineering No. 370. Virginia Institute of Marine Science, College of William and Mary. <https://doi.org/10.21220/V5CF08>

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 scholarworks@wm.edu.

Authors

Marcia Berman, Harry Berquist, Sharon Dewing, J. B. Glover, Carl Hershner, Tamia Rudnicky, Dan Schatt, and Kevin Skunda

Table 4. Essex County Shoreline Attributes - River Reach Data

REACH NUMBER	REACH LENGTH SURVEYED (miles)	RIPARIAN LAND USE (% of reach length surveyed)							SHORELINE FEATURES								BANK (bank height and erosion status - (%))						BANK COVER (% of reach length)			BUFFER CONDITION						
		forest	scrub-shrub	grass	residential	commercial	bare	agriculture	No. docks	No. bths*	No. ramps private	No. public	No. groin**	No. marinas	No. jetties	% bulkhead	% riprap	0-5 ft		5-10 ft		>10 ft		bare	partial	full	BEACH PRESENT (% of reach length)		MARSH PRESENT (% of reach length)			
																		low	high	low	high	low	high				Eroding	Stable	Eroding	Stable		
25	3.95	82	7	0	2	0	0	9	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	1	0	16
27	7.84	90	10	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	5	
28	1.08	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	100	0	0	0	20		
29	4.82	88	12	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	100	0	0	0	14		
30	1.97	64	11	6	14	0	0	5	1	0	0	0	0	0	2	0	100	0	0	0	0	0	0	0	0	100	0	0	0	0		
31	4.99	97	3	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	100	0	0	0	70		
32	3.82	56	11	1	21	0	0	11	5	1	1	0	0	0	2	0	54	0	40	0	6	0	2	25	73	0	0	0	12			
33	4.21	4	96	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	98			
34	9.14	22	68	1	7	0	0	2	3	0	1	0	0	0	1	3	84	0	2	1	7	6	2	5	93	0	4	0	77			
35	0.85	61	22	12	0	0	0	5	1	0	0	0	0	0	0	0	70	6	0	21	0	3	0	15	85	0	40	0	23			
36	16.59	60	39	0	0	0	0	1	0	0	0	0	0	0	0	0	99	1	0	0	0	0	0	0	100	0	0	0	98			
37	0.94	0	27	0	17	0	0	56	1	0	0	0	0	0	0	0	93	7	0	0	0	0	0	0	100	0	19	10	39			
38	20.34	10	87	0	0	0	0	3	0	0	0	0	0	0	0	0	99	1	0	0	0	0	0	0	100	0	1	0	99			
39	44.97	78	8	0.5	3	0	0.5	10	4	0	0	0	0	0	0.07	0.31	90	3	6	1	0	0	0	0	100	0	0	2	77			
40	11.87	90	9	0	0	0	0	1	0	0	0	0	0	0	0	0	99	0	1	0	0	0	0	0	100	0	0	0	93			
49	35.65	100	0	0	0	0	0	0	1	0	0	0	0	0	0	0.08	97	0	0	0	3	0	0	0	100	0	0	0	100			
50	8.46	3	70	1	26	0	0	0	26	3	2	0	8	0	13	7	81	1	2	0	9	7	5	2	93	0	4	1	75			
51	2.87	14	67	3	13	0	0	3	1	0	0	0	0	0	1	2	86	9	5	0	0	0	0	4	96	0	7	0	93			
52	28.01	93	5	0	2	0	0	0	10	0	0	0	0	0	0.11	1	99	0	1	0	0	0	0	0	100	0	0	0	96			
53	1.04	13	4	12	71	0	0	0	10	0	0	0	1	0	8	28	7	2	7	0	59	25	0	11	89	0	0	0	46			
54	3.85	7	24	1	53	15	0	0	26	10	2	1	5	1	2	34	59	1	6	0	33	1	4	4	92	0	17	1	42			
55	22.17	83	10	0	5	2	0	0	18	8	1	1	0	0	2	0.03	95	0	4	0	1	0	0	0	100	0	0	0	82			
56	0.95	0	41	0	59	0	0	0	11	7	2	0	2	0	51	7	90	0	0	0	10	0	0	0	100	0	6	0	19			
57	0.48	0	0	0	100	0	0	0	6	0	3	0	1	0	65	3	100	0	0	0	0	0	0	0	100	0	84	0	27			
58	2.90	61	8	0	31	0	0	0	15	0	4	0	1	0	11	1	100	0	0	0	0	0	0	0	100	0	6	0	59			
59	49.75	83	13	1	2	0	0	1	38	5	4	0	0	0	0.16	0.07	78	0	19	0	2	1	0	0	100	0	0	0	91			
60	0.31	9	9	0	82	0	0	0	8	3	3	0	1	0	60	0	100	0	0	0	0	0	0	0	100	0	7	0	34			
61	1.58	23	7	0	70	0	0	0	21	11	14	0	2	0	68	6	95	0	1	0	4	0	0	0	100	0	7	0	29			
62	0.19	0	0	0	100	0	0	0	5	0	2	0	0	0	60	28	100	0	0	0	0	0	0	0	100	0	0	0	0			
63	0.63	0	51	0	49	0	0	0	7	2	5	0	0	0	22	19	100	0	0	0	0	0	0	0	100	0	1	0	53			
64	0.58	49	11	0	40	0	0	0	6	2	2	0	0	0	15	28	100	0	0	0	0	0	0	0	100	0	0	0	87			
65	0.90	70	5	0	25	0	0	0	0	0	0	0	0	0	0	28	70	0	19	0	11	0	0	0	100	0	4	0	70			
66	3.99	34	22	0	31	0	1	12	19	4	2	0	2	0	12	7	73	7	10	0	5	5	0	5	95	6	24	10	63			

Table 4. Essex County Shoreline Attributes - River Reach Data (Con't)

REACH NUMBER	REACH LENGTH SURVEYED (miles)	RIPARIAN LAND USE (% of reach length surveyed)							SHORELINE FEATURES								BANK (bank height and erosion status - (%))						BANK COVER (% of reach length)			BUFFER CONDITION				
		forest	scrub-shrub	grass	residential	commercial	bare	agriculture	No. docks	No. bths*	No. ramps private	No. public	No. groin**	No. marinas	No. jetties	% bulkhead	% riprap	0-5 ft		5-10 ft		>10 ft		bare	partial	full	BEACH PRESENT (% of reach length)		MARSH PRESENT (% of reach length)	
																		low	high	low	high	low	high				Eroding	Stable	Eroding	Stable
67	0.13	0	0	0	100	0	0	0	2	1	1	0	1	0	0	29	55	0	0	0	5	51	44	0	0	100	49	0	0	0
68	0.96	0	18	0	82	0	0	0	12	0	4	0	3	0	0	4	2	0	77	0	16	0	7	0	0	100	93	0	7	59
69	2.80	14	18	9	57	0	0	2	31	4	3	0	4	0	0	31	20	28	11	24	6	31	0	0	0	100	14	59	2	38
70	9.03	58	6	1	29	6	0	0	34	17	6	0	6	1	4	10	19	54	0	11	4	23	8	6	5	89	1	16	2	50
71	0.16	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	100	0	0	0	100
72	0.71	56	0	0	44	0	0	0	14	0	1	0	0	0	0	0	0	53	0	13	0	34	0	0	0	100	0	66	0	34
Total	316.65***	68.85	20.52	0.43	6.98	0.52	0.10	2.60	336	78	63	2	34	2	7	2.62	1.74	88.77	1.11	5.77	0.42	3.08	0.85	0.49	0.91	98.60	0.52	2.49	0.79	79.23

* boathouses

** groinfields

*** Total miles of surveyed shoreline for Essex County - 125 miles of which where remotely surveyed.

Table 5. Essex County Shoreline Attributes - Plate Summary

PLATE NUMBER	TOTAL MILES SURVEYED	RIPARIAN LAND USE (miles)							SHORELINE FEATURES								BANK (bank height and erosion status - miles of shore)						BANK COVER (miles)			BUFFER CONDITION (miles)				
		forest	scrub-shrub	grass	residential	commercial	bare	agriculture	No. docks	No. bths*	No. ramps private	No. public	No. groin**	No. marinas	No. jetties	Miles of bulkhead	Miles of riprap	0-5 ft		5-10 ft		>10 ft		BANK COVER (miles)			BEACH PRESENT (miles)		MARSH PRESENT (miles)	
																		low	high	low	high	low	high	bare	partial	full	Eroding	Stable	Eroding	Stable
1	4.96	3.80	0.00	0.08	1.07	0.00	0.00	0.00	27	5	4	0	3	0	0	0.17	0.94	2.93	0.00	0.59	0.08	0.92	0.43	0.51	0.19	4.26	0.00	0.56	0.00	2.95
2	5.01	1.94	0.55	0.05	1.93	0.54	0.00	0.00	21	14	3	0	3	1	4	0.75	0.87	2.41	0.00	0.48	0.31	1.50	0.32	0.07	0.36	4.59	0.06	1.37	0.22	1.90
3	3.28	0.49	0.68	0.24	1.81	0.00	0.00	0.06	36	4	4	0	5	0	0	0.88	0.63	0.88	0.49	0.74	0.25	0.86	0.07	0.00	0.00	3.28	0.69	1.65	0.06	1.41
4	5.81	2.08	0.94	0.00	2.29	0.00	0.04	0.47	30	5	6	0	3	0	0	0.55	0.63	3.63	0.86	0.57	0.11	0.34	0.30	0.00	0.21	5.59	0.94	0.99	0.47	3.57
5	12.79	6.68	2.80	0.11	2.52	0.00	0.00	0.68	63	19	30	0	4	0	0	1.80	0.43	12.48	0.00	0.15	0.00	0.16	0.00	0.00	0.02	12.77	0.00	0.24	0.00	10.52
6	29.86	22.53	4.12	0.11	2.42	0.00	0.00	0.68	47	6	13	0	3	0	1	1.01	0.07	22.90	0.00	6.47	0.00	0.33	0.16	0.10	0.02	29.74	0.00	0.73	0.00	26.97
7	26.25	25.68	0.17	0.04	0.28	0.01	0.07	0.00	23	3	1	0	0	0	0	0.02	0.00	17.52	0.00	7.43	0.00	1.14	0.16	0.10	0.00	26.15	0.00	0.00	0.00	23.23
8	11.72	9.15	2.48	0.00	0.09	0.00	0.00	0.00	4	0	0	0	0	0	0	0.00	0.00	11.42	0.00	0.30	0.00	0.00	0.00	0.00	0.00	11.72	0.00	0.00	0.00	10.28
9	20.72	15.55	2.63	0.03	1.90	0.62	0.00	0.00	36	15	3	1	4	0	0	1.25	0.16	19.10	0.00	0.96	0.06	0.59	0.02	0.04	0.15	20.53	0.00	0.05	0.00	16.62
10	4.99	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0.00	0.00	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.99	0.00	0.00	0.00	3.33
11	8.19	2.32	2.37	0.14	2.79	0.54	0.03	0.00	34	10	2	1	5	1	2	1.17	0.84	5.94	0.07	0.21	0.00	1.65	0.33	0.15	0.23	7.81	0.00	0.65	0.05	5.32
12	29.43	26.54	1.60	0.20	0.98	0.00	0.03	0.08	12	0	0	0	0	0	0	0.06	0.18	28.42	0.28	0.48	0.00	0.25	0.00	0.00	0.14	29.29	0.00	0.19	0.02	28.14
13	10.22	0.15	7.87	0.16	1.98	0.00	0.00	0.05	24	3	2	0	8	0	0	1.08	0.28	8.69	0.30	0.16	0.00	0.62	0.45	0.31	0.14	9.77	0.00	0.51	0.06	8.23
14	49.42	46.86	1.79	0.07	0.40	0.00	0.02	0.28	4	0	0	0	0	0	0	0.02	0.38	47.24	0.29	0.47	0.00	1.24	0.19	0.19	0.06	49.18	0.00	0.05	0.49	47.15
15	27.90	9.05	14.09	0.07	1.49	0.00	0.00	3.24	4	0	0	0	0	0	0	0.03	0.14	25.94	0.48	0.98	0.25	0.11	0.02	0.00	0.04	27.86	0.00	0.45	0.31	26.07
16	11.92	7.45	1.20	0.07	0.44	0.02	0.07	2.66	1	0	0	0	0	0	0	0.00	0.01	10.87	0.10	0.83	0.00	0.00	0.00	0.00	0.00	11.92	0.00	0.00	0.08	10.66
17	41.12	22.74	16.07	0.07	0.52	0.00	0.10	1.63	1	0	0	0	0	0	0	0.00	0.00	40.02	1.02	0.02	0.05	0.00	0.00	0.00	0.00	41.12	0.00	0.00	0.83	38.83
18	18.19	16.35	0.97	0.03	0.00	0.00	0.10	0.74	0	0	0	0	0	0	0	0.00	0.00	16.80	0.06	1.34	0.00	0.00	0.00	0.00	0.00	18.19	0.00	0.00	0.00	11.62
19	4.59	2.68	0.87	0.25	0.60	0.00	0.00	0.20	4	0	1	0	0	0	0	0.08	0.25	2.85	0.08	0.19	0.26	0.65	0.55	0.23	0.55	3.81	0.00	0.73	0.00	1.76
20	13.96	2.13	10.49	0.09	0.93	0.00	0.00	0.31	6	1	0	0	0	0	0	0.10	0.19	12.47	0.03	0.84	0.05	0.42	0.14	0.06	1.00	12.90	0.00	0.14	0.00	11.12
21	7.81	6.74	0.46	0.03	0.42	0.00	0.00	0.16	3	1	1	0	0	0	0	0.00	0.00	6.60	0.00	1.15	0.00	0.06	0.00	0.60	0.50	7.25	0.00	0.00	0.00	3.97
22	6.21	4.93	0.80	0.12	0.28	0.00	0.00	0.09	1	0	0	0	0	0	0	0.04	0.00	6.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.37
23	7.03	6.23	0.80	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0.00	0.00	7.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	0.00	0.00	0.00	0.93
24	11.10	9.62	1.03	0.00	0.09	0.00	0.00	0.35	0	0	0	0	0	0	0	0.00	0.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.10	0.00	0.05	0.00	1.06
Essex Total	316.65***	218.00	64.97	1.37	22.10	1.66	0.32	8.23	336	78	63	2	34	2	7	8.28	5.51	280.88	3.50	18.25	1.33	9.74	2.70	1.56	2.89	312.06	1.64	7.87	2.49	250.67

* boathouses

** groinfields

*** Total miles of surveyed shoreline for Essex County - 125 miles of which were remotely surveyed.