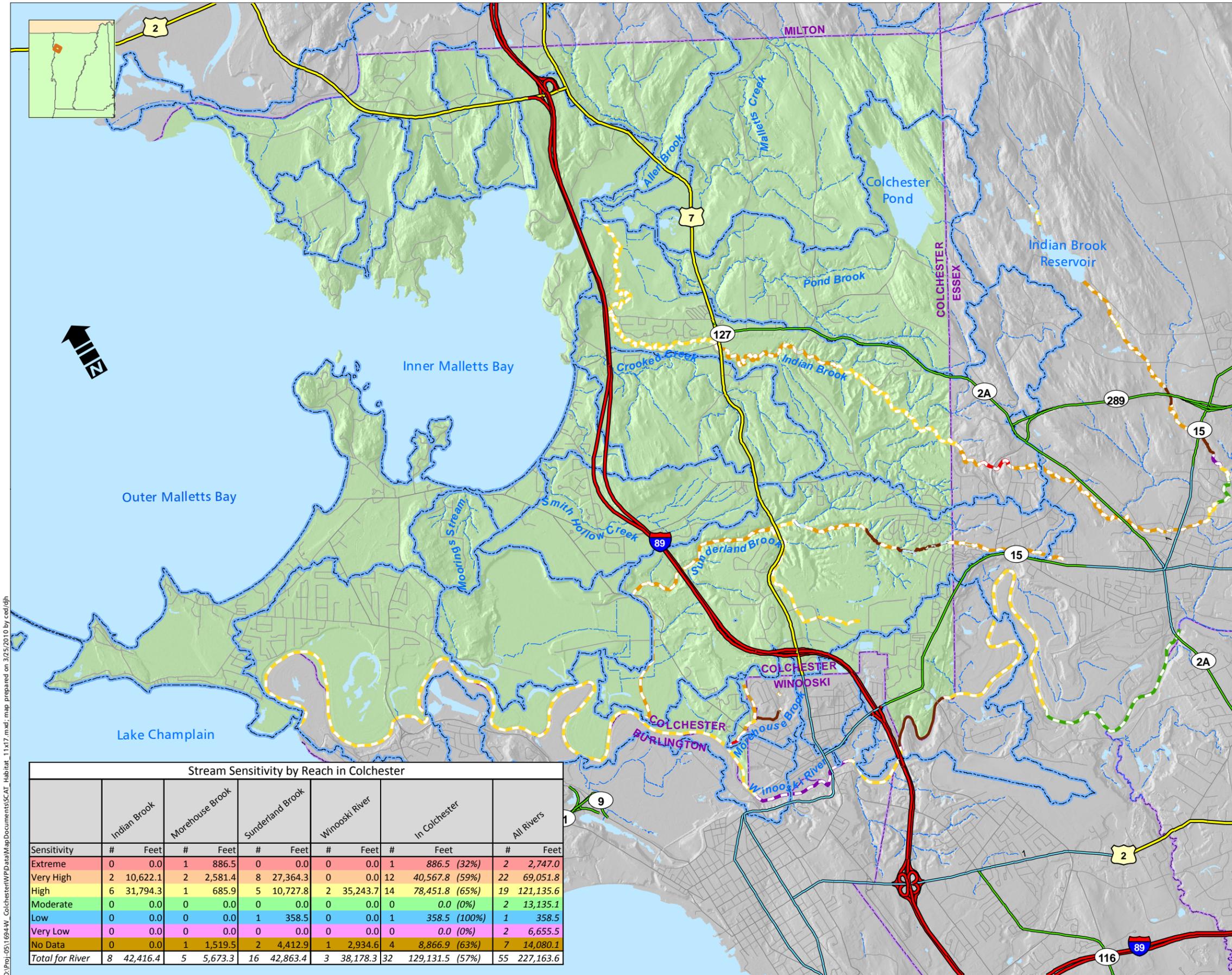


Stream Sensitivity

Stream Geomorphic Assessment

Integrated Water Resources Management Program

Town of Colchester, Vermont



SGA Watershed Boundaries

Sensitivity Ratings

- Extreme
- Very High
- High
- Moderate
- Low
- Very Low
- No data
- Not Assessed

0 0.5 1 Miles

Sources: ANR: Stream Geomorphic Assessment data; VCGI: Streams, Roads

Stream sensitivity is determined as “the likelihood that a stream will respond to a watershed or local disturbance or stressor.” The stream type and geomorphic condition is used to determine the stream’s sensitivity. The stream type is determined based on the following four stream characteristics: entrenchment ratio; width/depth; sinuosity; and slope.

The stream sensitivity assessment assigns one of six levels of stream sensitivity ranging from extremely sensitive to very low sensitivity based on an assessment of each stream type and each geomorphic condition for each reach.

The reference stream type describes the natural central tendency of channel form and process that would exist in the absence of human related changes to the channel, flood plain, and/or watershed. The reference stream type is based largely on characteristics of the valley, geology, and climate of the stream.

Source: Vermont Agency of Natural Resources. Vermont Stream Geomorphic Assessment Protocol Handbook. 2004.

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Sensitivity	Indian Brook		Morehouse Brook		Sunderland Brook		Winooski River		In Colchester		All Rivers	
	#	Feet	#	Feet	#	Feet	#	Feet	#	Feet	#	Feet
Extreme	0	0.0	1	886.5	0	0.0	0	0.0	1	886.5 (32%)	2	2,747.0
Very High	2	10,622.1	2	2,581.4	8	27,364.3	0	0.0	12	40,567.8 (59%)	22	69,051.8
High	6	31,794.3	1	685.9	5	10,727.8	2	35,243.7	14	78,451.8 (65%)	19	121,135.6
Moderate	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0 (0%)	2	13,135.1
Low	0	0.0	0	0.0	1	358.5	0	0.0	1	358.5 (100%)	1	358.5
Very Low	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0 (0%)	2	6,655.5
No Data	0	0.0	1	1,519.5	2	4,412.9	1	2,934.6	4	8,866.9 (63%)	7	14,080.1
Total for River	8	42,416.4	5	5,673.3	16	42,863.4	3	38,178.3	32	129,131.5 (57%)	55	227,163.6

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