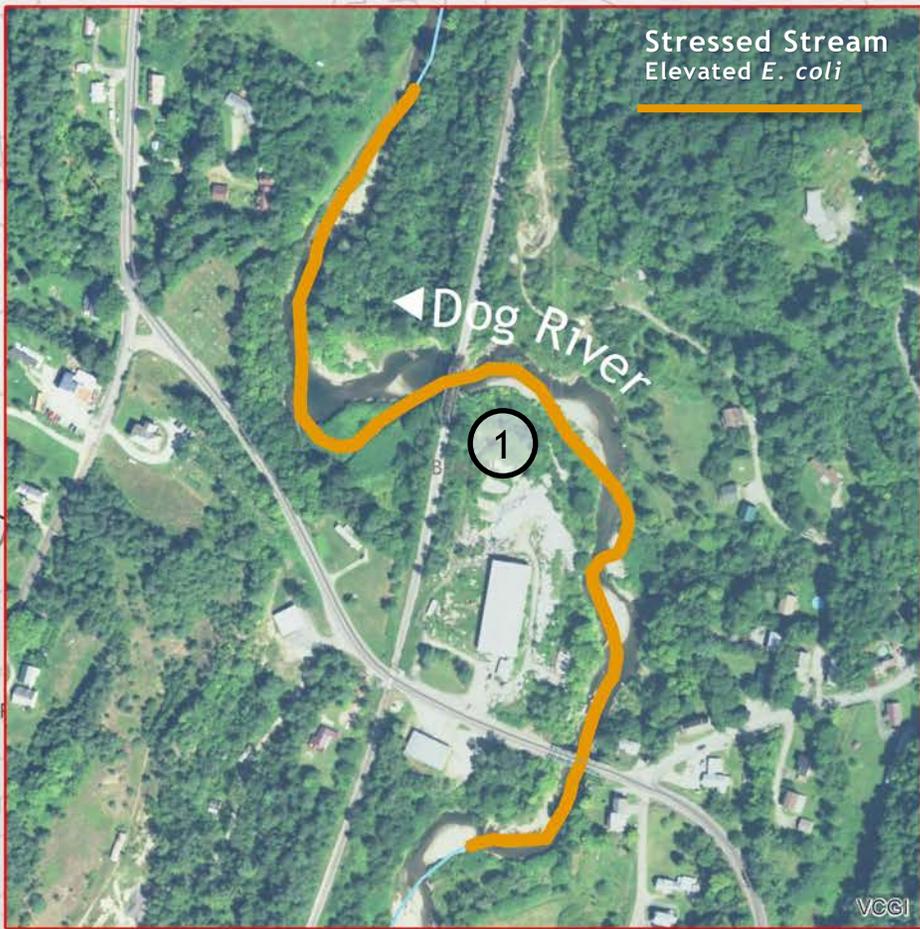


THE WINOOSKI

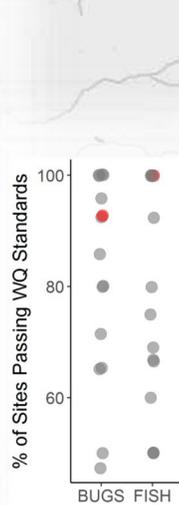
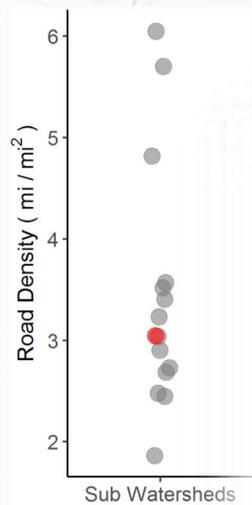
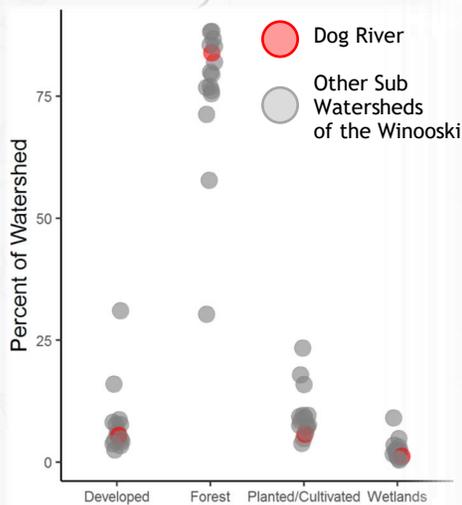
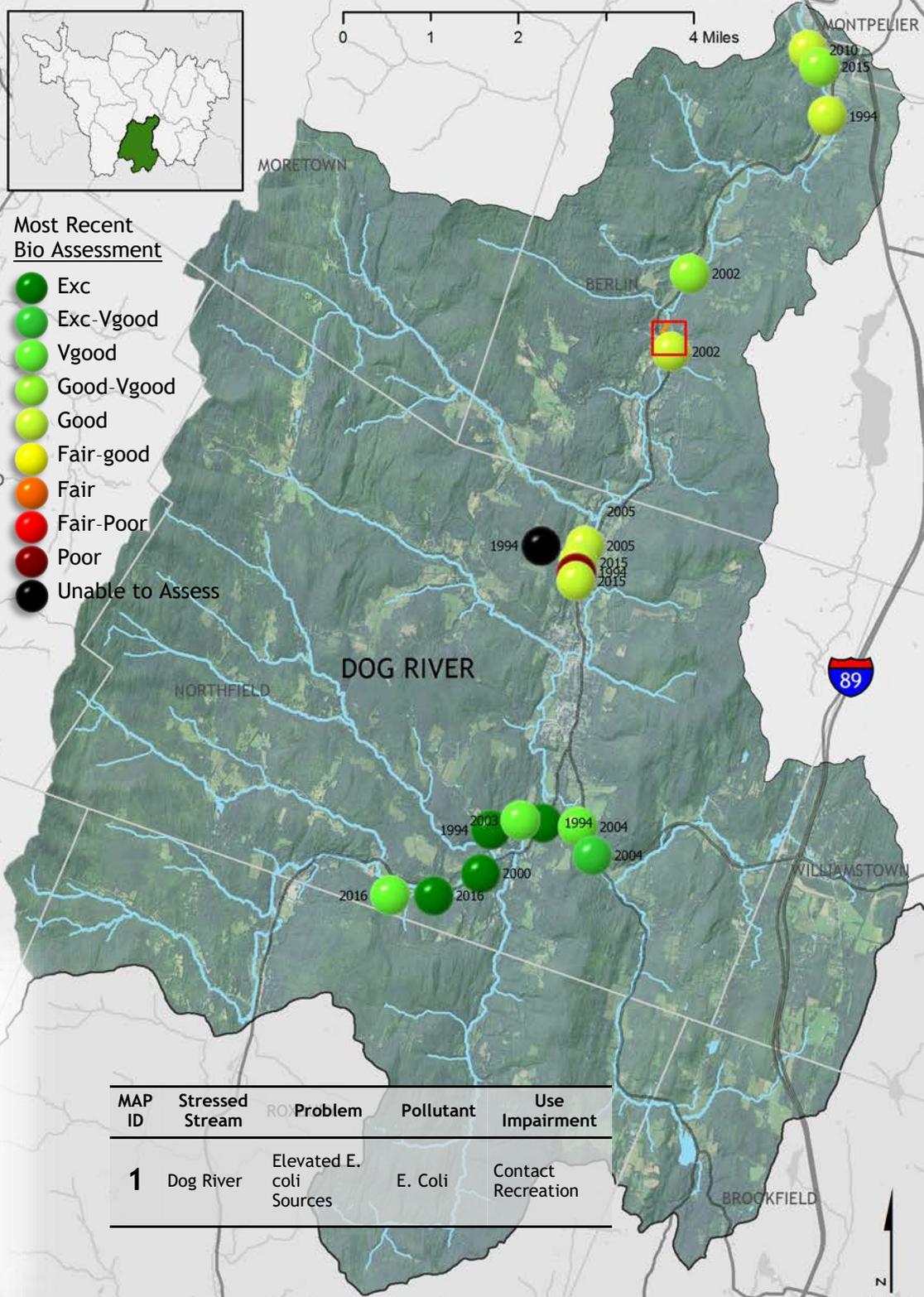
WATER QUALITY ASSESSMENT



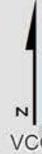


Most Recent Bio Assessment

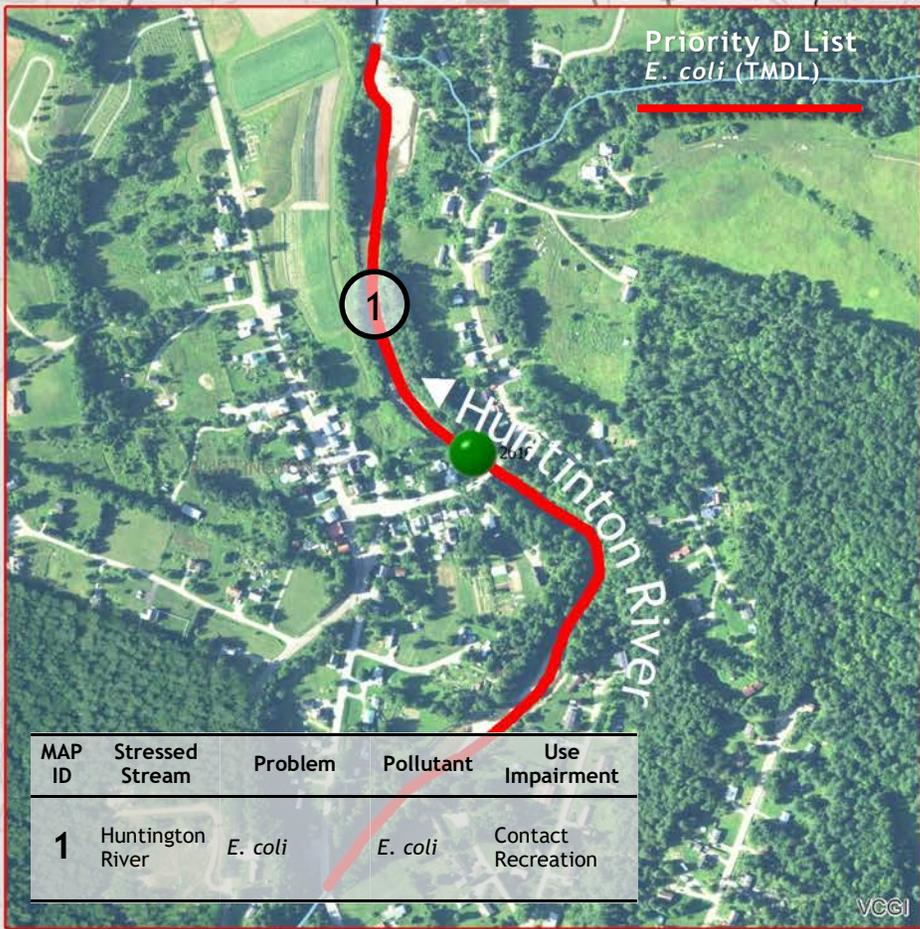
- Exc
- Exc-Vgood
- Vgood
- Good-Vgood
- Good
- Fair-good
- Fair
- Fair-Poor
- Poor
- Unable to Assess



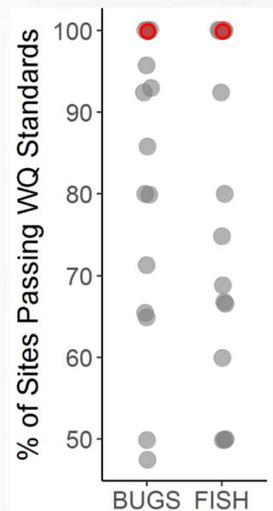
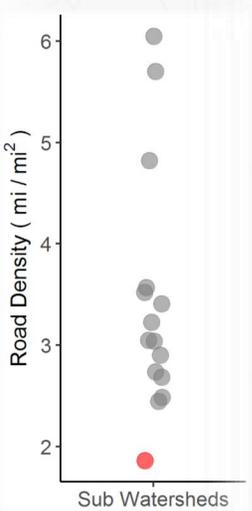
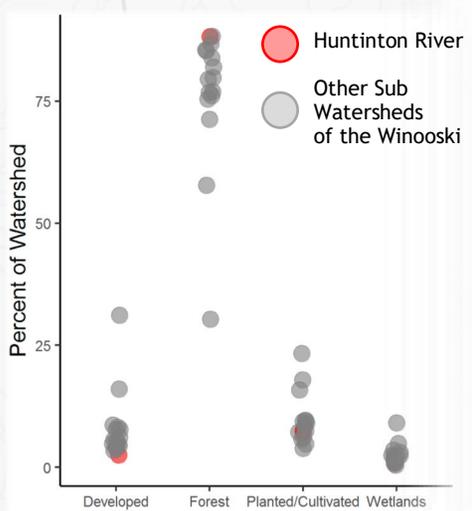
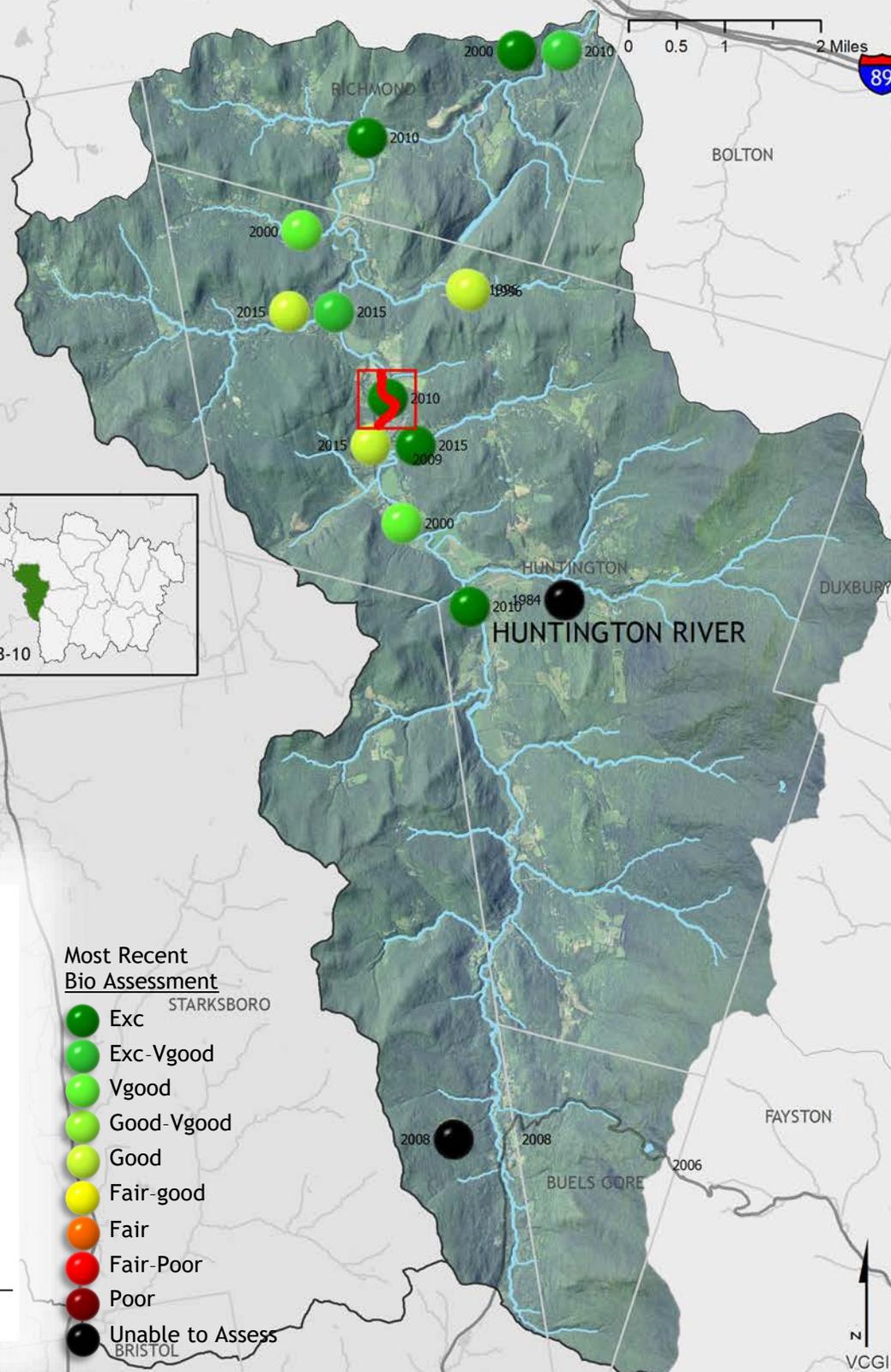
MAP ID	Stressed Stream	RO/Problem	Pollutant	Use Impairment
1	Dog River	Elevated <i>E. coli</i> Sources	<i>E. Coli</i>	Contact Recreation



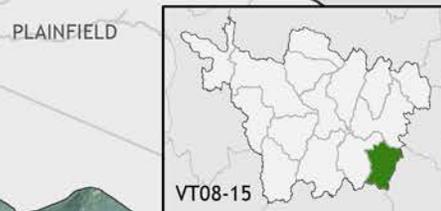
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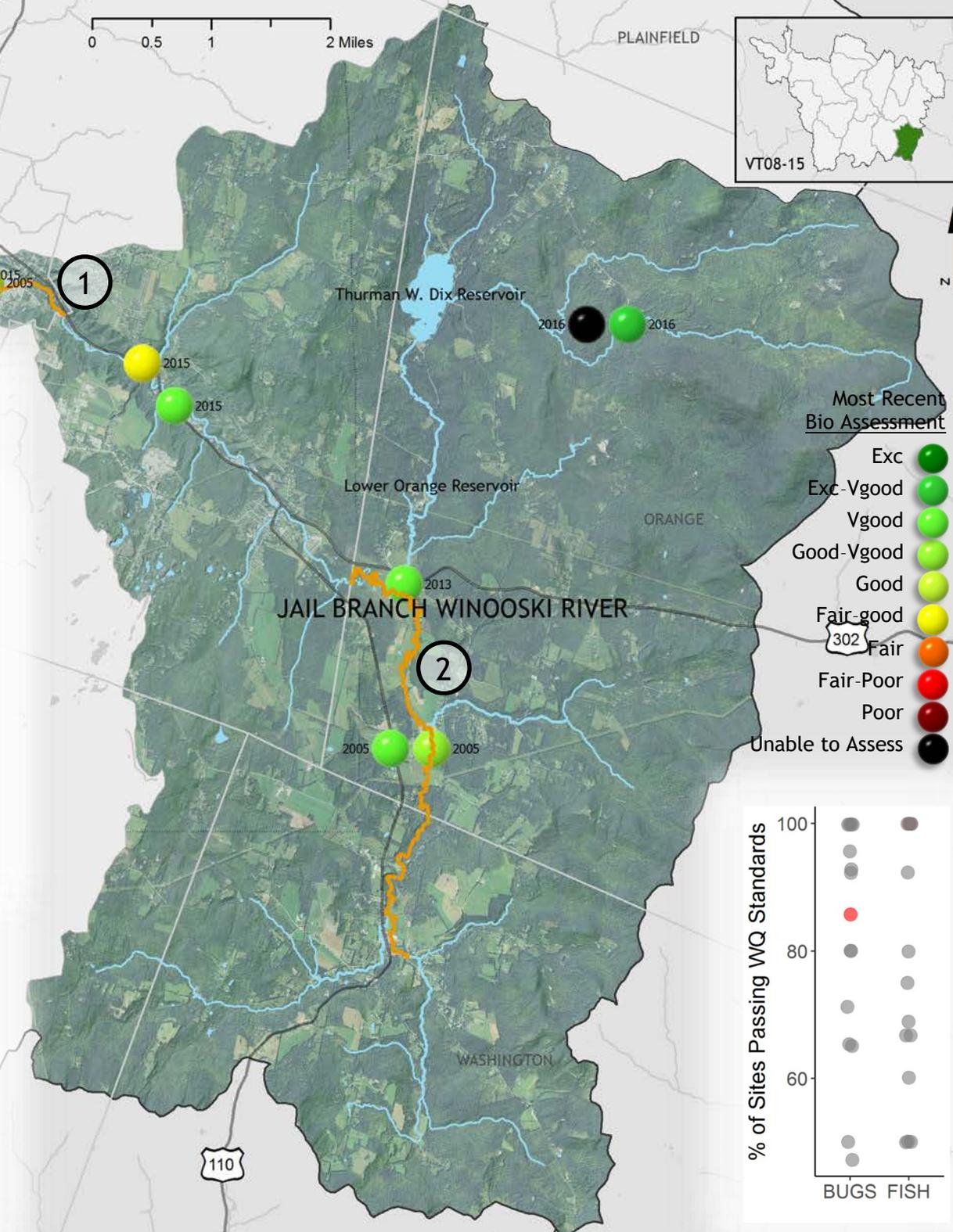
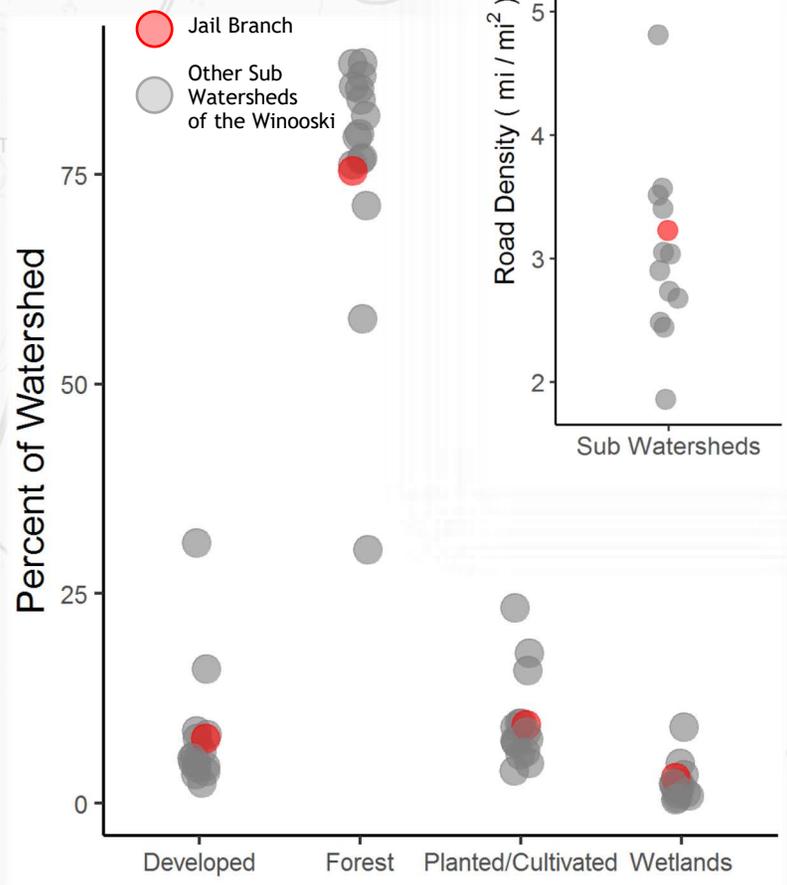
0 500 1,000 2,000 Feet



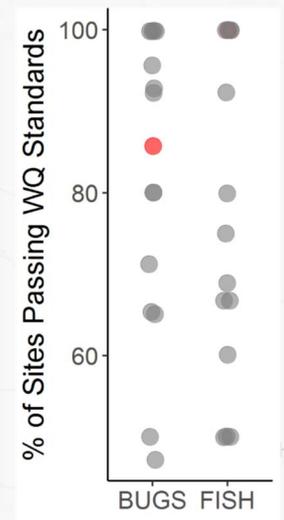
MAP ID	Stressed Stream	Problem	Pollutant	Use Impairment
1	Jail Branch Barre City	Elevated E. coli Sources unknown	E. Coli	Contact Recreation
2	Jail Branch Washington /Orange	Land Development Erosion/ Sedimentation Urban Runoff	Sediment Nutrients E. Coli	Aquatic Life Support

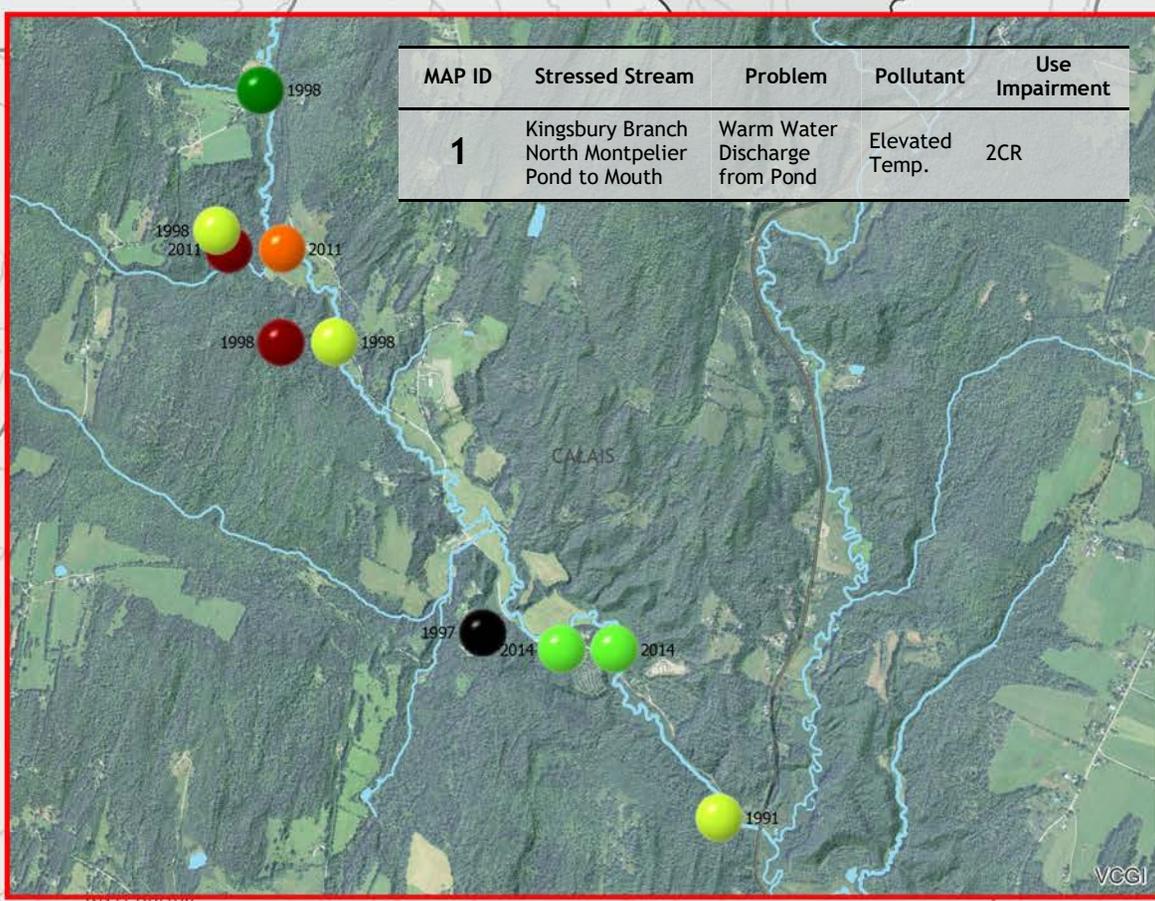


Stressed Stream
Elevated *E. coli*



Most Recent Bio Assessment

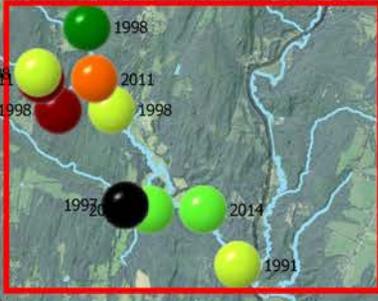
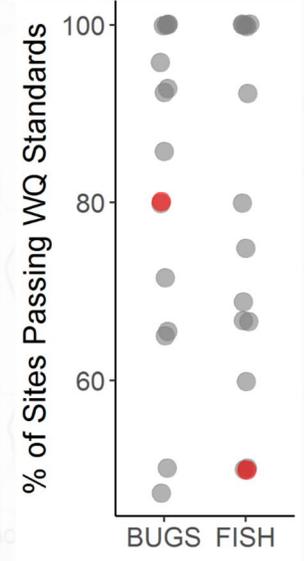
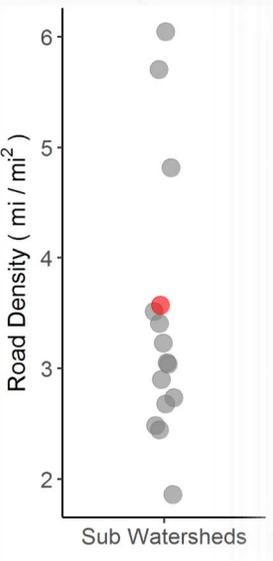
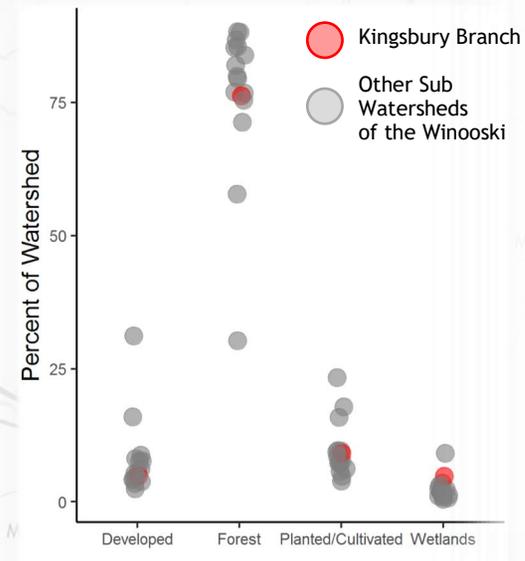
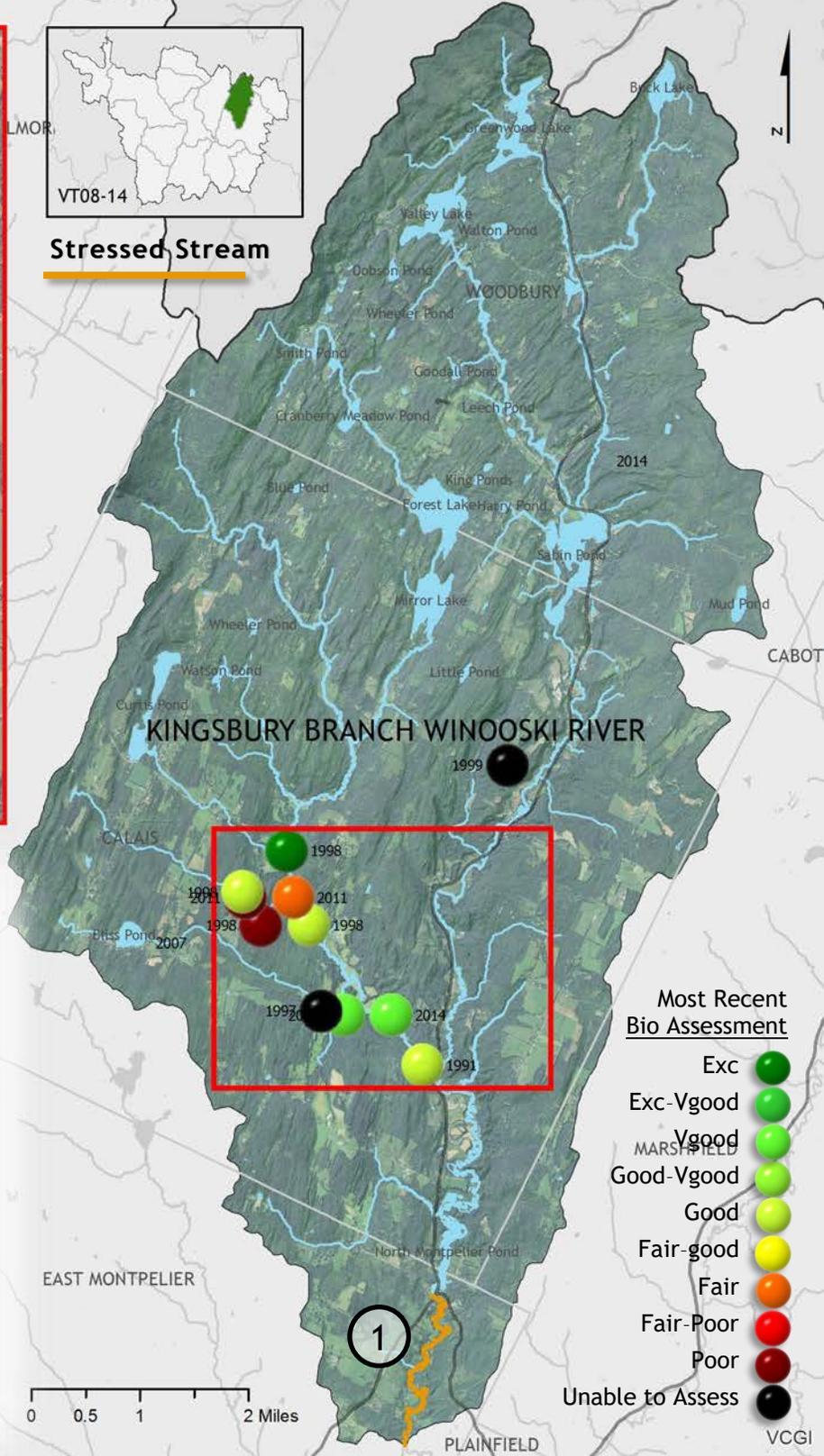




MAP ID	Stressed Stream	Problem	Pollutant	Use Impairment
1	Kingsbury Branch North Montpelier Pond to Mouth	Warm Water Discharge from Pond	Elevated Temp.	2CR



Stressed Stream



Most Recent Bio Assessment

- Exc
- Exc-Vgood
- Vgood
- Good-Vgood
- Good
- Fair-good
- Fair
- Fair-Poor
- Poor
- Unable to Assess

Priority F List
Flow Alteration

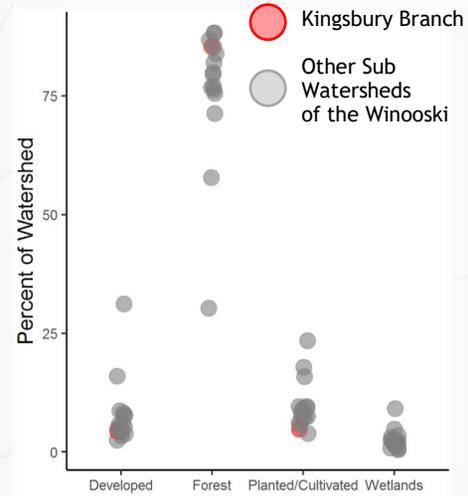


Stressed Stream

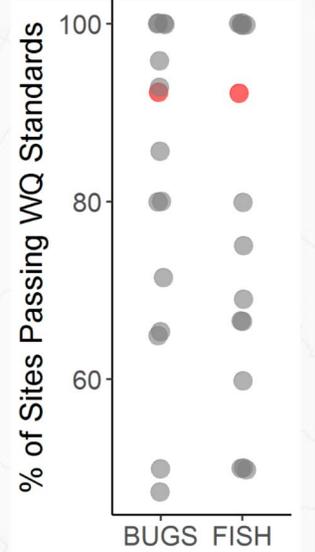
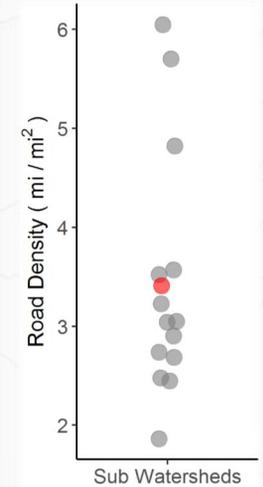
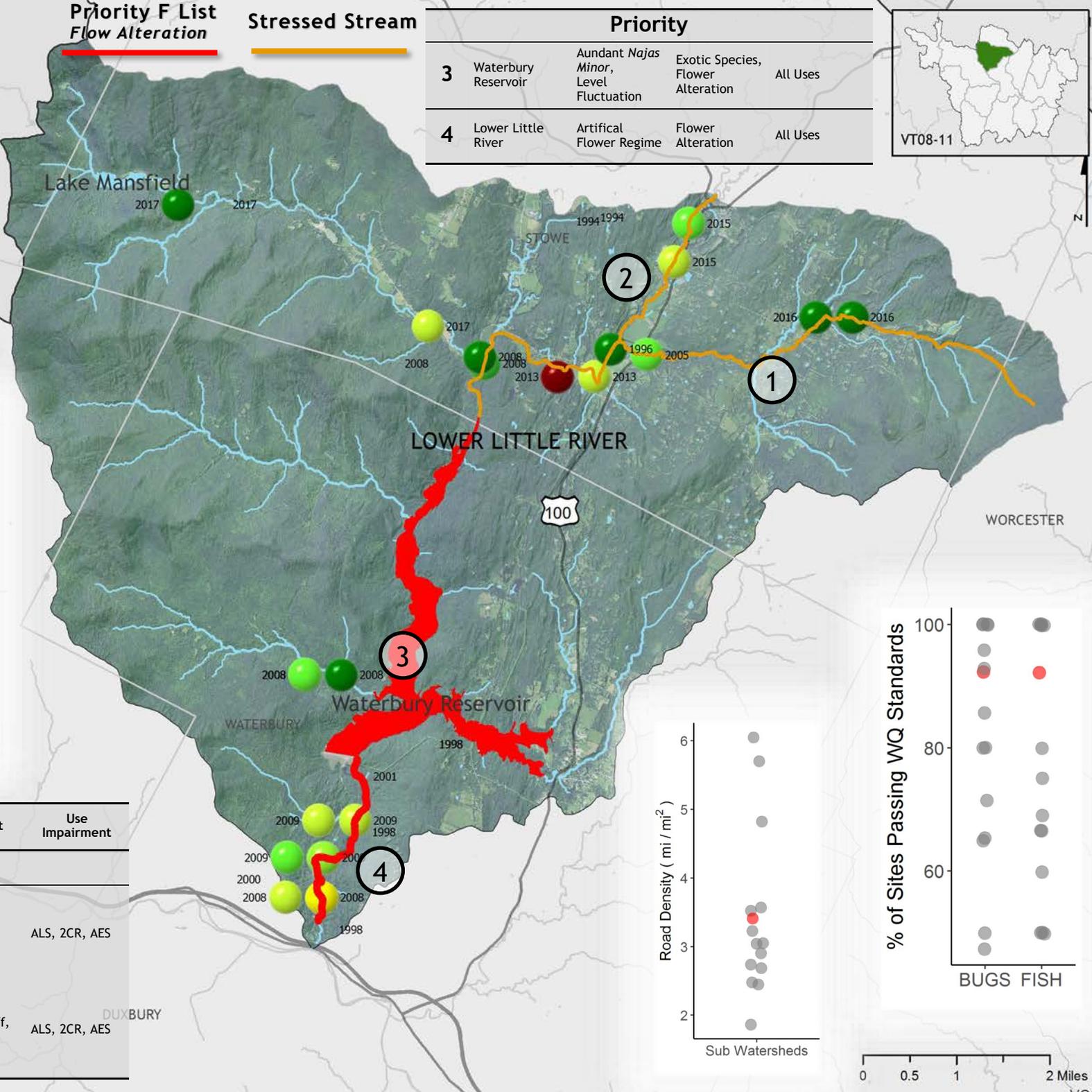


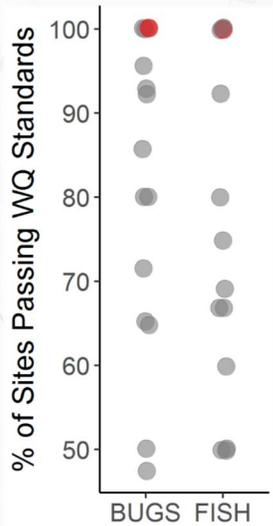
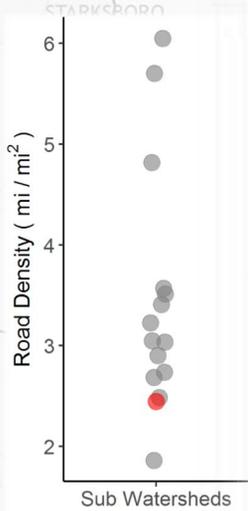
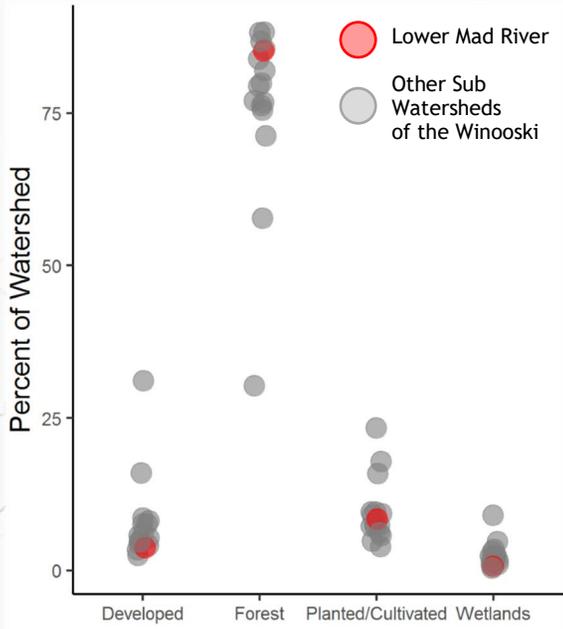
Priority

3	Waterbury Reservoir	Aundant <i>Najas</i> Minor, Level Fluctuation	Exotic Species, Flower Alteration	All Uses
4	Lower Little River	Artificial Flower Regime	Flower Alteration	All Uses



MAP ID	Listing	Problem	Pollutant	Use Impairment
Stressed				
1	Gold Brook	Land Development, Past Recreational Gold Mining	Sediment, Physical alterations	ALS, 2CR, AES
2	Little River to Waterbury Reservoir	Channel Instability, Channel Manipulation, Development	Urban runoff, Sediment	ALS, 2CR, AES

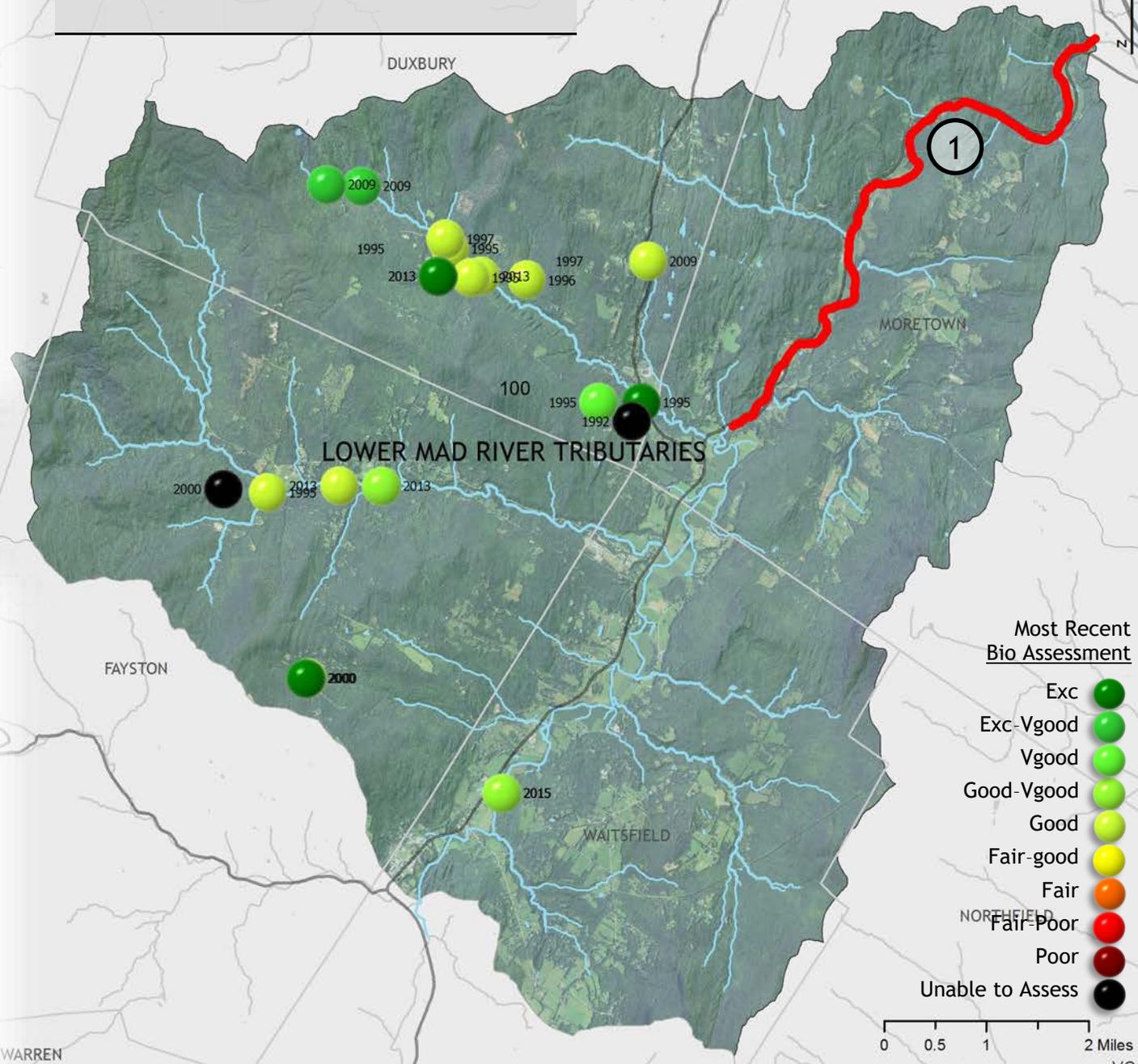




MAP ID	Listing	Problem	Pollutant	Use Impairment
Priority				
1	Mad River, Mouth to Moretown	Possible Failing Septic	<i>E. Coli</i>	Contact Recreation

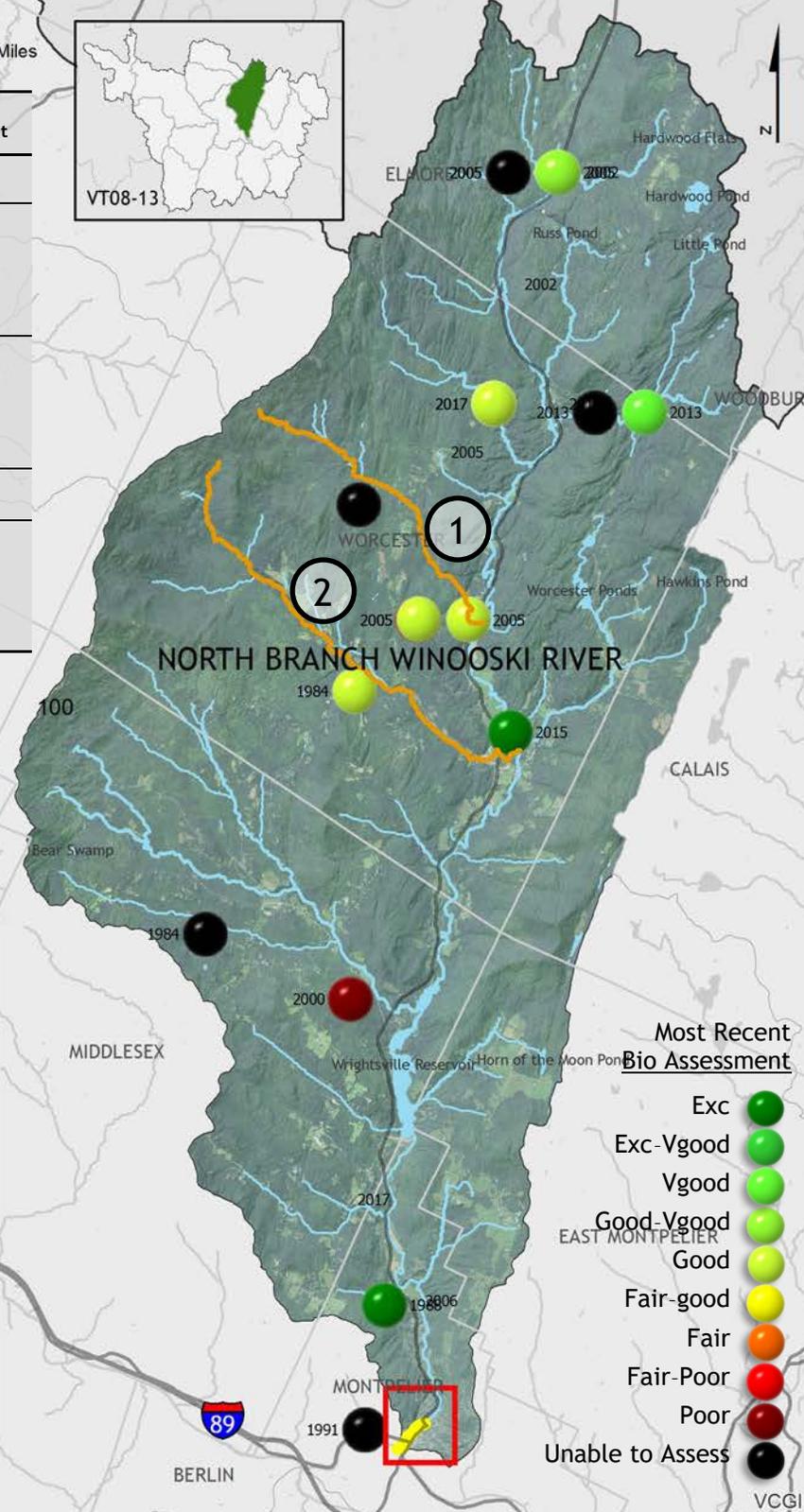
Priority

Stressed

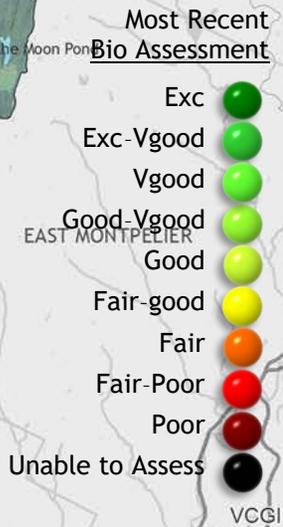
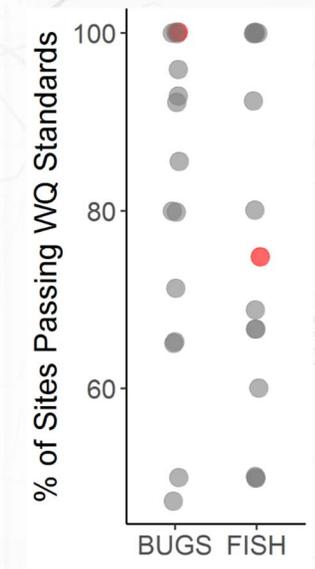
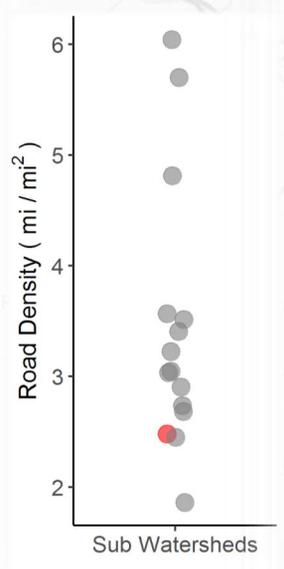
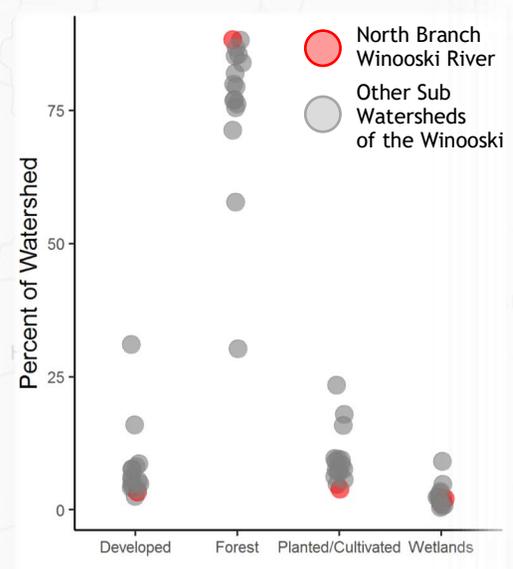


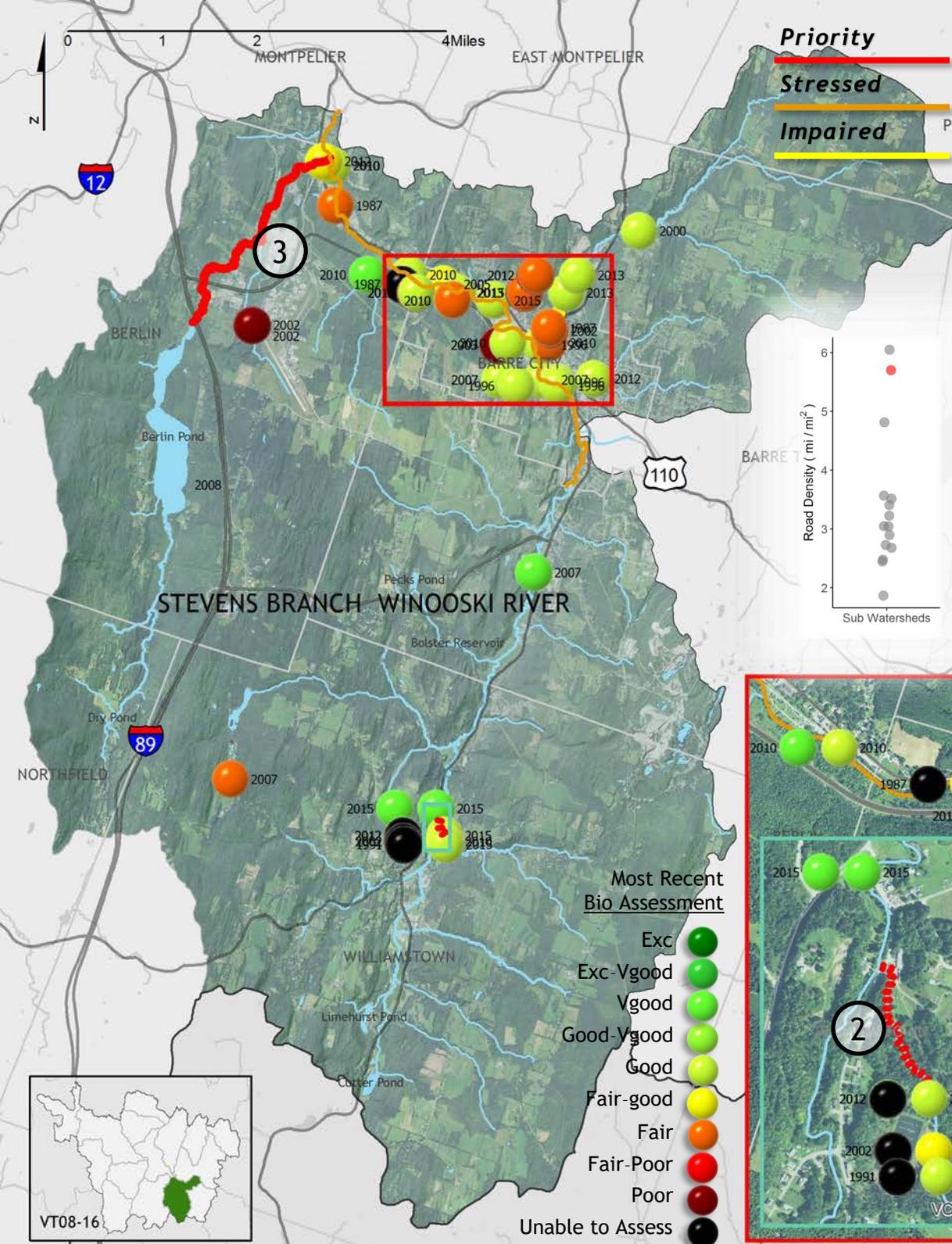


MAP ID	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Hancock Brook	Low pH	Acid	Aquatic Life Support
2	Minister Brook	Low pH, Gravel Road runoff	Acid	Aquatic Life Support
Impaired				
3	Lower North Branch	Combined Sewer Overflow	E. coli	Contact Recreation



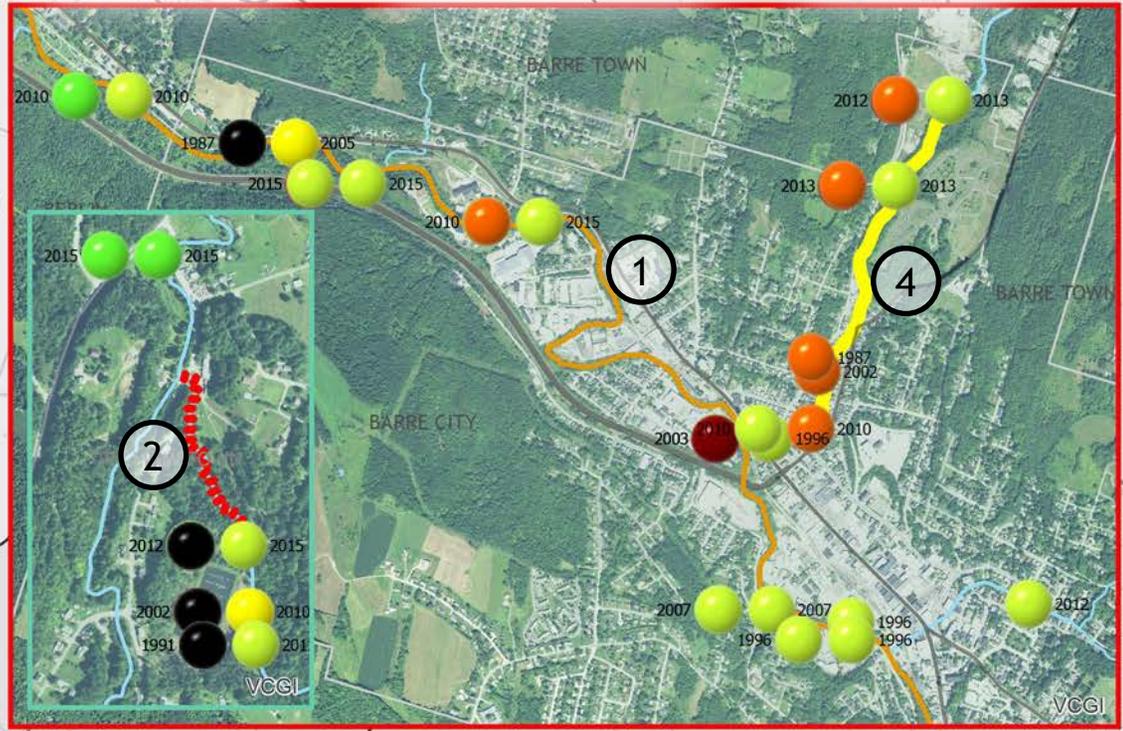
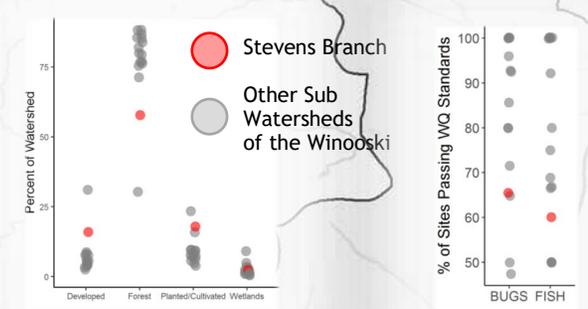
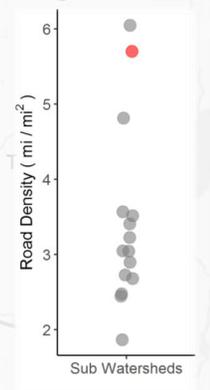
Stressed
Impaired

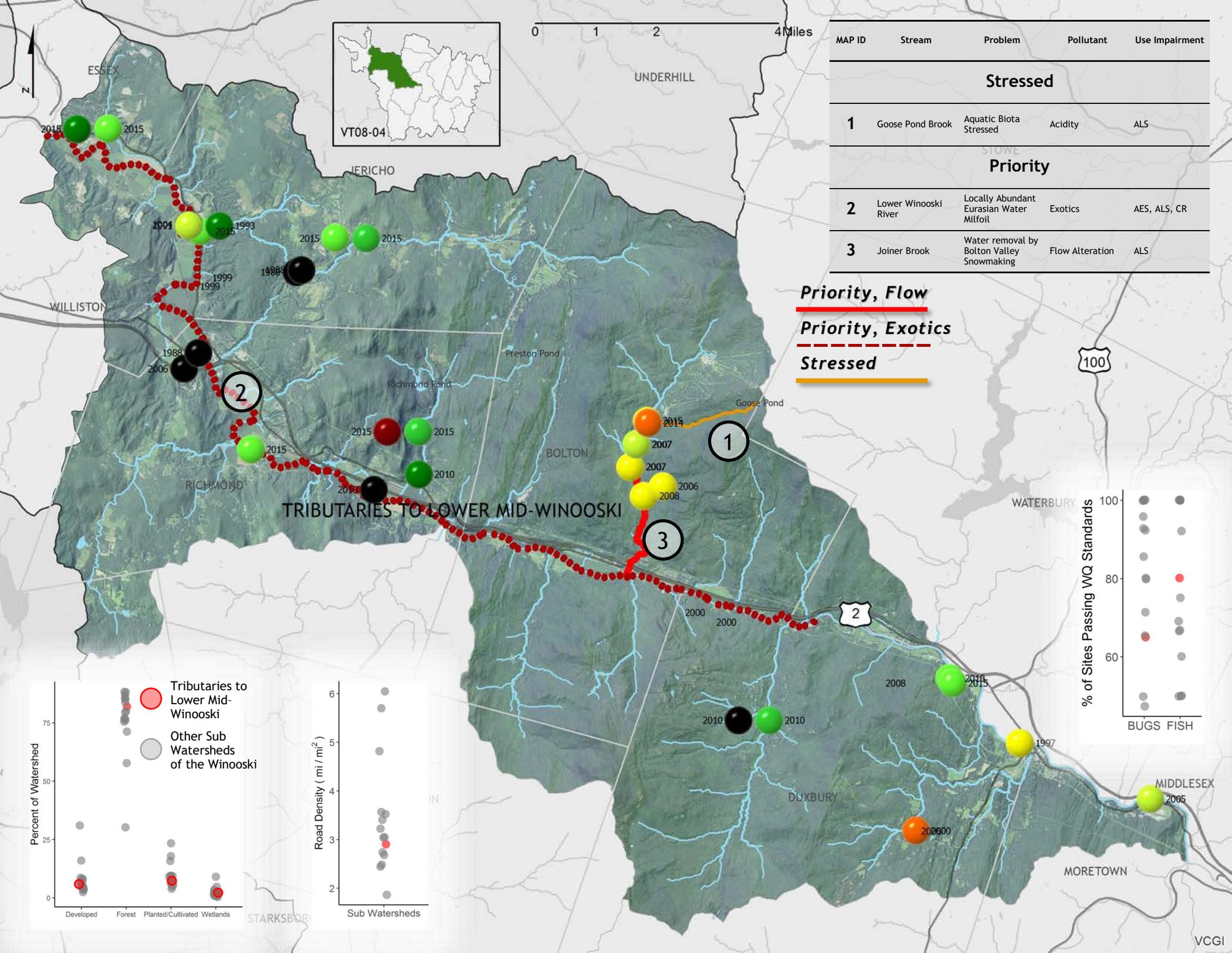




Priority
Stressed
Impaired

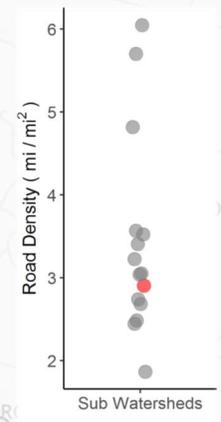
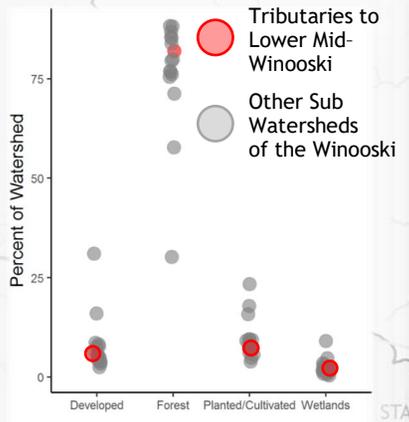
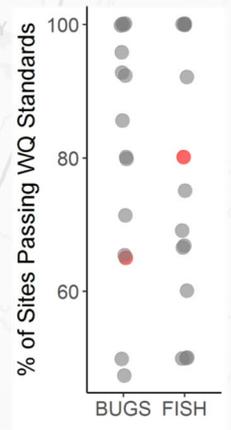
MAP ID	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Stevens Branch	Urban Runoff	Sediment, Nutrients, E. Coli	ALS, AES
Priority				
2	Trib #23 to Stevens Brook, Below WWTF	Treated Effluent Discharge	Nutrients	ALS, AES
3	Benjamin Falls Brook	Water removal by Montpelier & Berlin Water Supply	Flow Alteration	ALS, AES
Impaired				
4	Gunner Brook, Below Dump	Landfill Leachate, Runoff	Metals, Nutrients, Sediment	AES, ALS





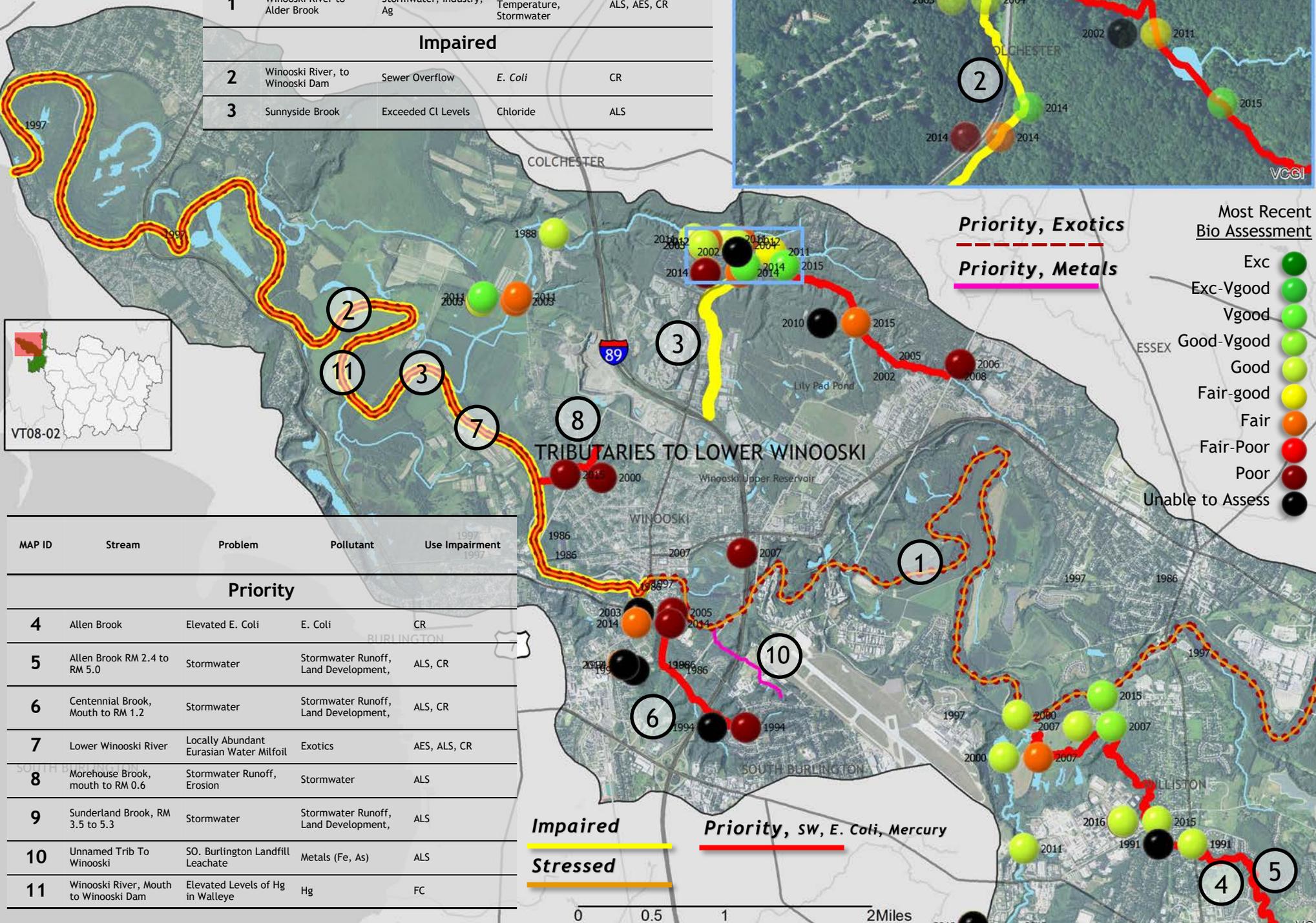
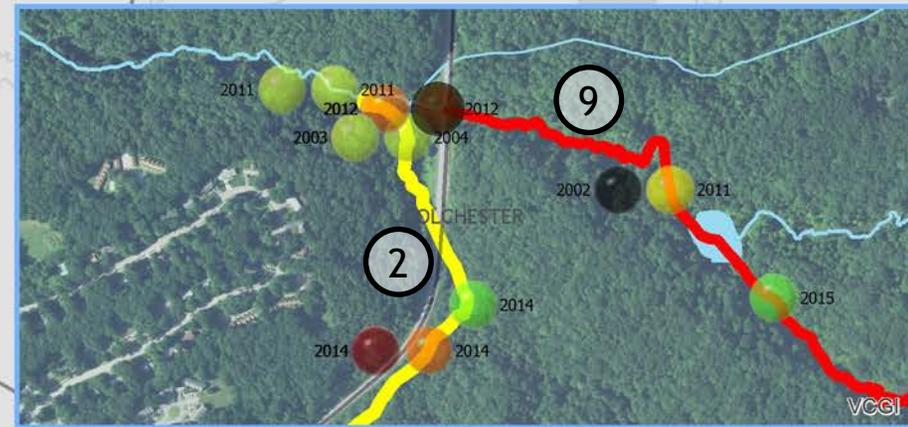
MAP ID	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Goose Pond Brook	Aquatic Biota Stressed	Acidity	ALS
Priority				
2	Lower Winooski River	Locally Abundant Eurasian Water Milfoil	Exotics	AES, ALS, CR
3	Joiner Brook	Water removal by Bolton Valley Snowmaking	Flow Alteration	ALS

Priority, Flow
Priority, Exotics
Stressed

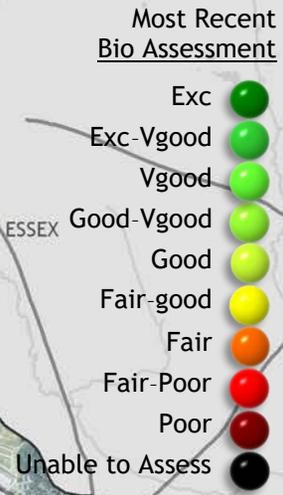


TRIBUTARIES TO LOWER MID-WINOOSKI

MAP ID	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Winooski River to Alder Brook	Stormwater, Industry, Ag	Sediment, Nutrients, Temperature, Stormwater	ALS, AES, CR
Impaired				
2	Winooski River, to Winooski Dam	Sewer Overflow	E. Coli	CR
3	Sunnyside Brook	Exceeded Cl Levels	Chloride	ALS



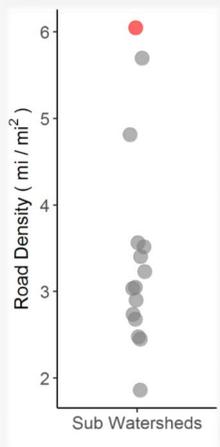
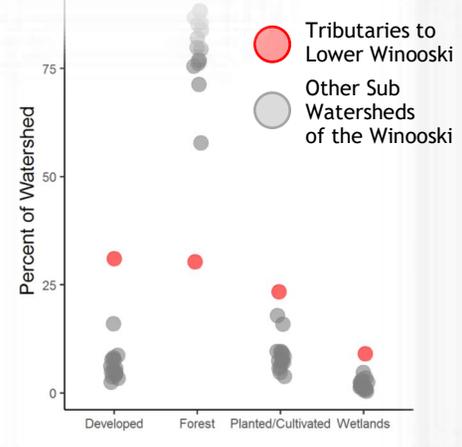
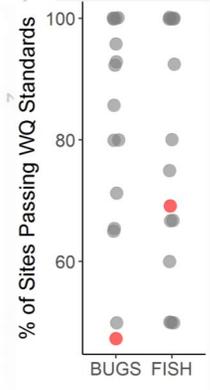
Priority, Exotics
Priority, Metals



MAP ID	Stream	Problem	Pollutant	Use Impairment
Priority				
4	Allen Brook	Elevated E. Coli	E. Coli	CR
5	Allen Brook RM 2.4 to RM 5.0	Stormwater	Stormwater Runoff, Land Development,	ALS, CR
6	Centennial Brook, Mouth to RM 1.2	Stormwater	Stormwater Runoff, Land Development,	ALS, CR
7	Lower Winooski River	Locally Abundant Eurasian Water Milfoil	Exotics	AES, ALS, CR
8	Morehouse Brook, mouth to RM 0.6	Stormwater Runoff, Erosion	Stormwater	ALS
9	Sunderland Brook, RM 3.5 to 5.3	Stormwater	Stormwater Runoff, Land Development,	ALS
10	Unnamed Trib To Winooski	SO. Burlington Landfill Leachate	Metals (Fe, As)	ALS
11	Winooski River, Mouth to Winooski Dam	Elevated Levels of Hg in Walleye	Hg	FC

Impaired
Priority, SW, E. Coli, Mercury
Stressed

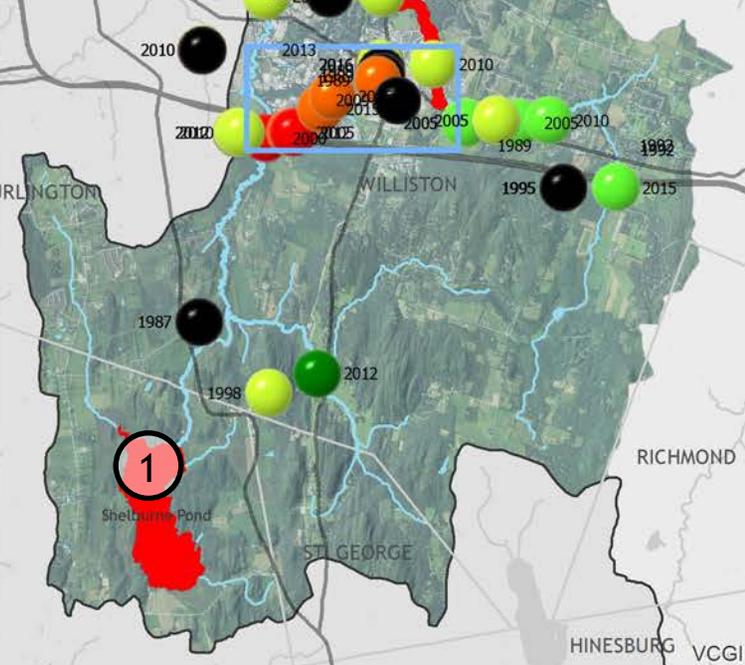
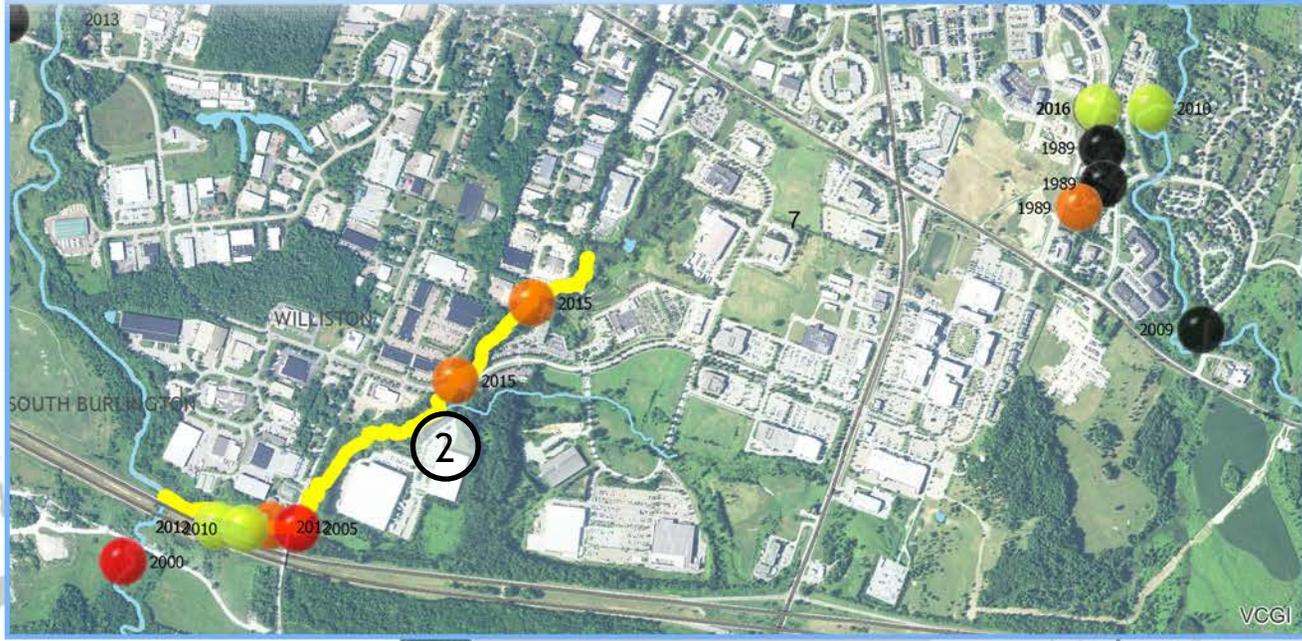
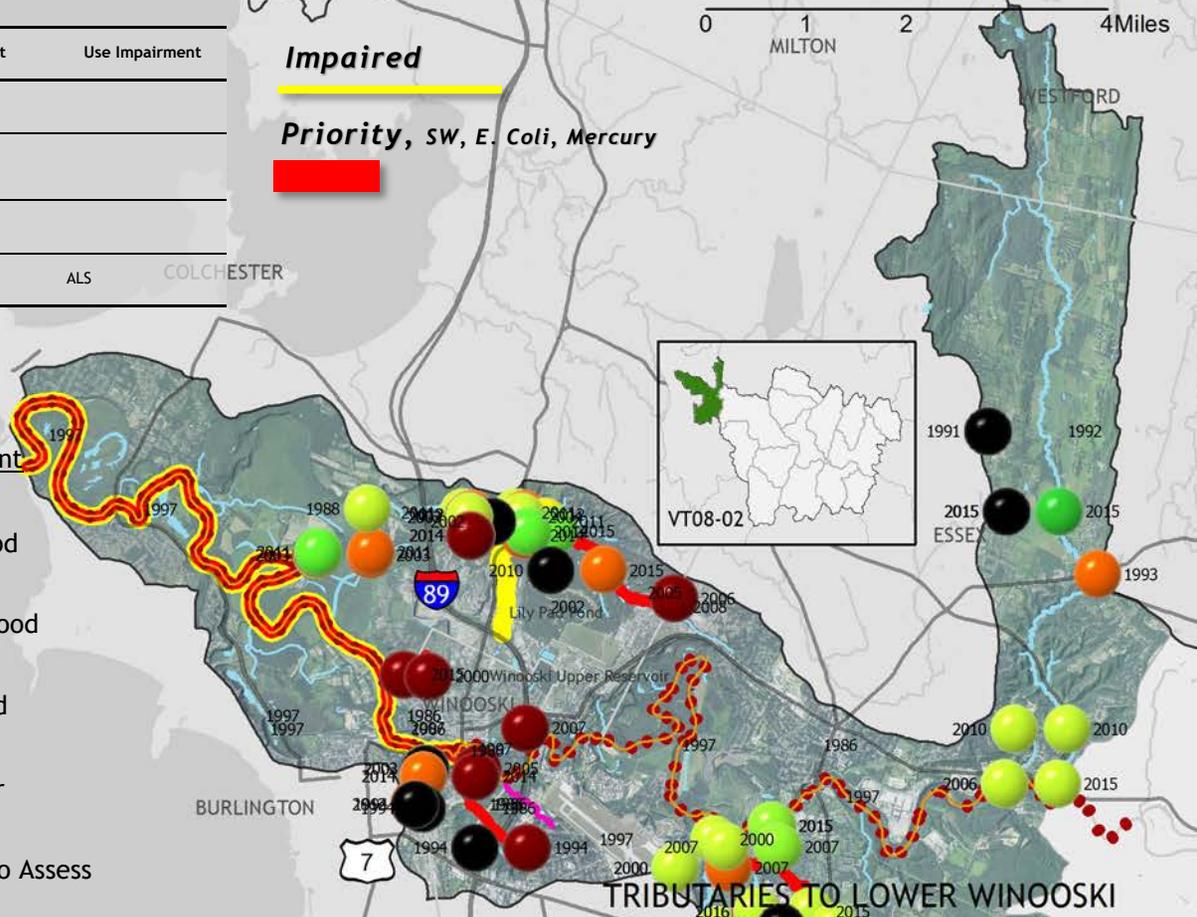
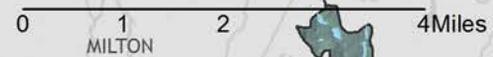


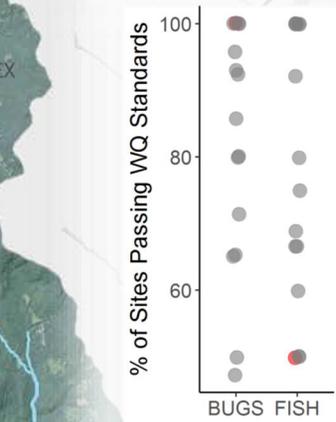
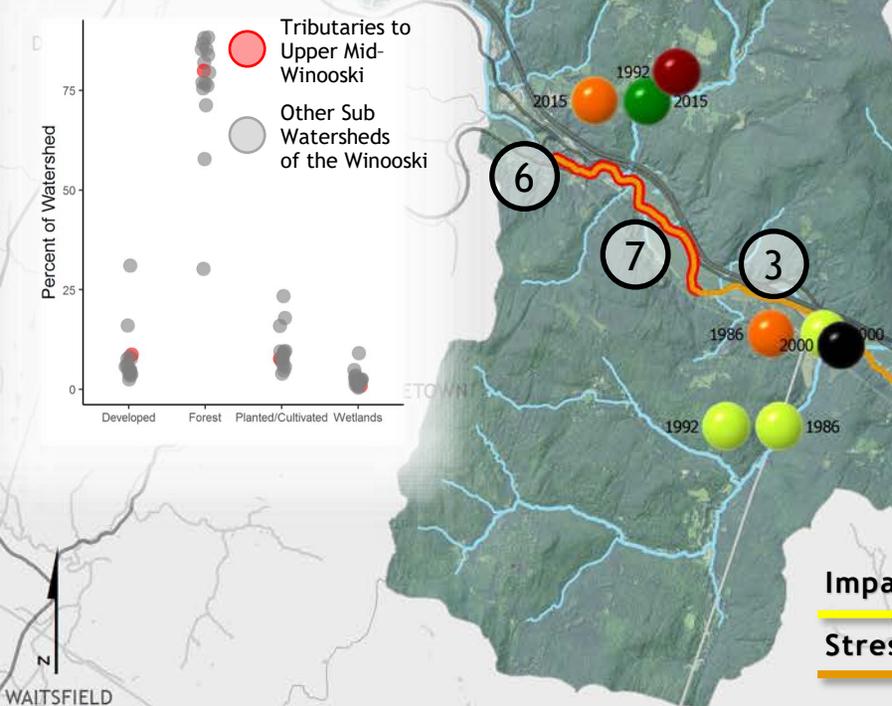
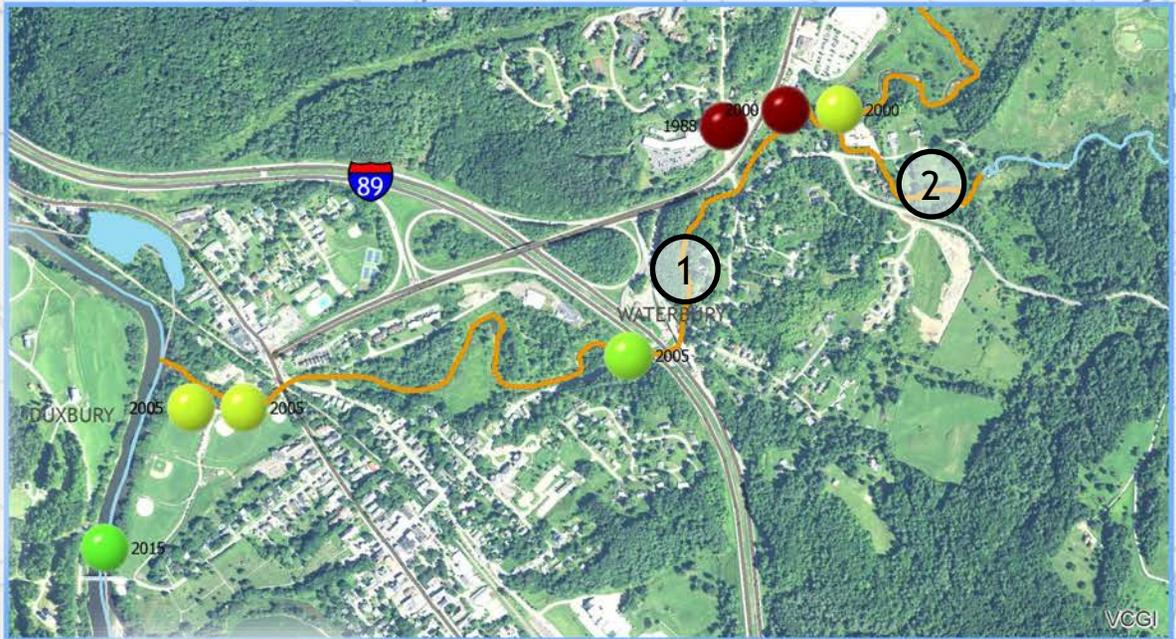
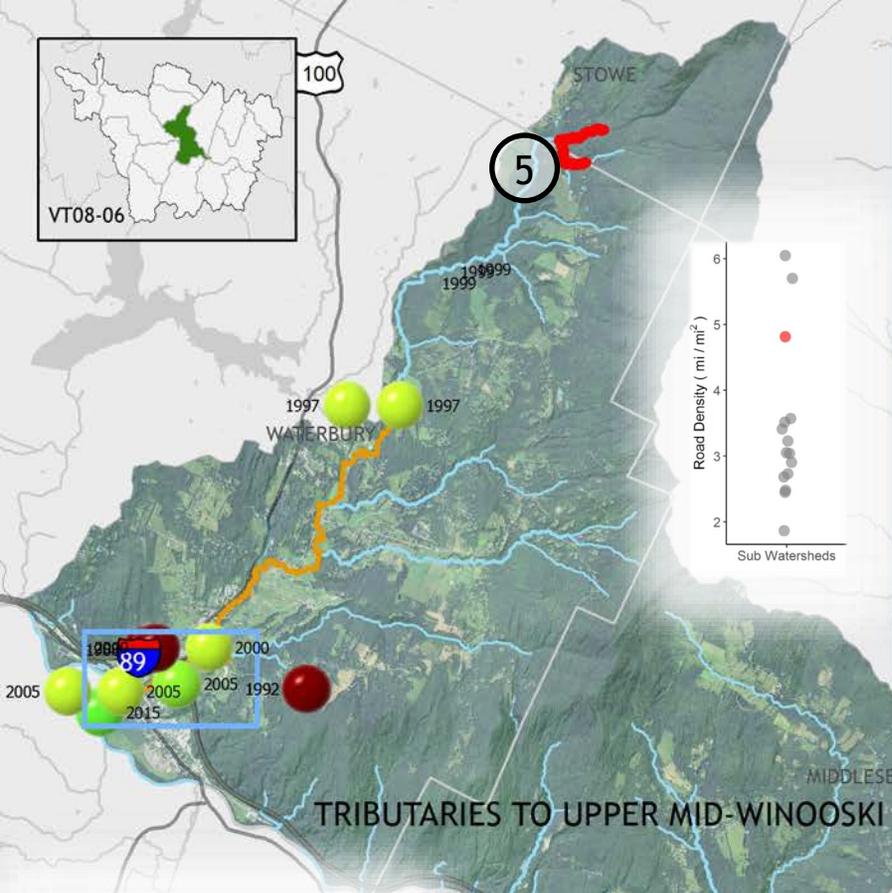


MAP ID	Stream	Problem	Pollutant	Use Impairment
Priority				
1	Shelburne Pond	Abundant Curly Leaf Pondweed	Exotic Species	
Impaired				
2	Muddy Brook	Elevated Chloride	Chloride	ALS

Impaired
Priority, SW, E. Coli, Mercury

- Most Recent Bio Assessment**
- Exc
 - Exc-Vgood
 - Vgood
 - Good-Vgood
 - Good
 - Fair-good
 - Fair
 - Fair-Poor
 - Poor
 - Unable to Assess



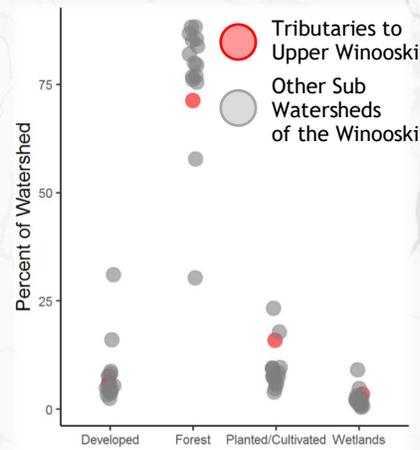
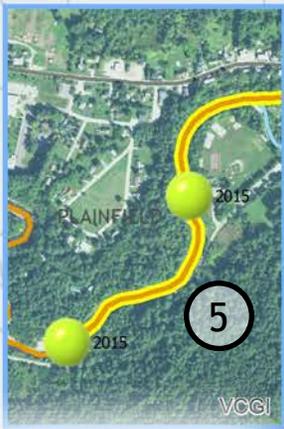


MAP	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Thatcher Brook	Morphological Instability	Sediment	AES, ALS
2	Graves Brook	Development, AG, Riparian encroachment	Sediment	ALS
3	Winooski River	Urban Runoff, Channelization, Storm Water	Sediments, Nutrients, SW	ALS, CR, 2CR
Impaired				
4	Winooski River	Sewer Overflow	<i>E. Coli</i>	CR
Priority				
5	Tyler Brook & Merriam Brook, Thatcher Brook	Water removal by Village Water Supply	Flow Alteration	All Uses
6	Winooski River at Middlesex #2 Dam	Water removal by hydro power	Flow Alteration	All Uses
7	Winooski River, Impoundment of	Water level fluctuation	Flow Alteration	AES, ALS

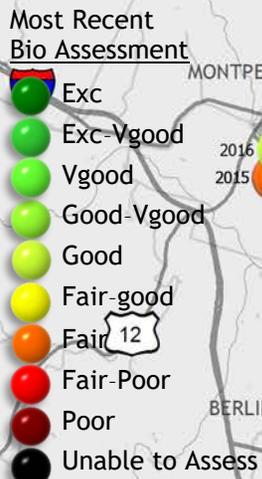
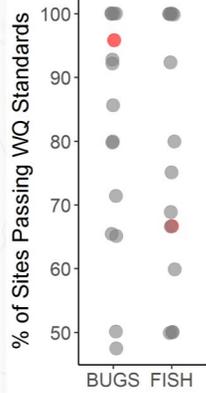
Impaired
Stressed

Priority, Flow

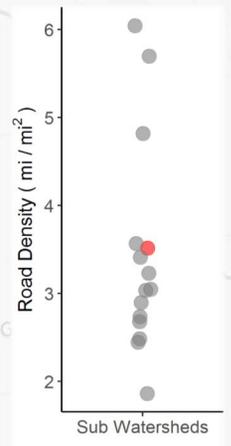
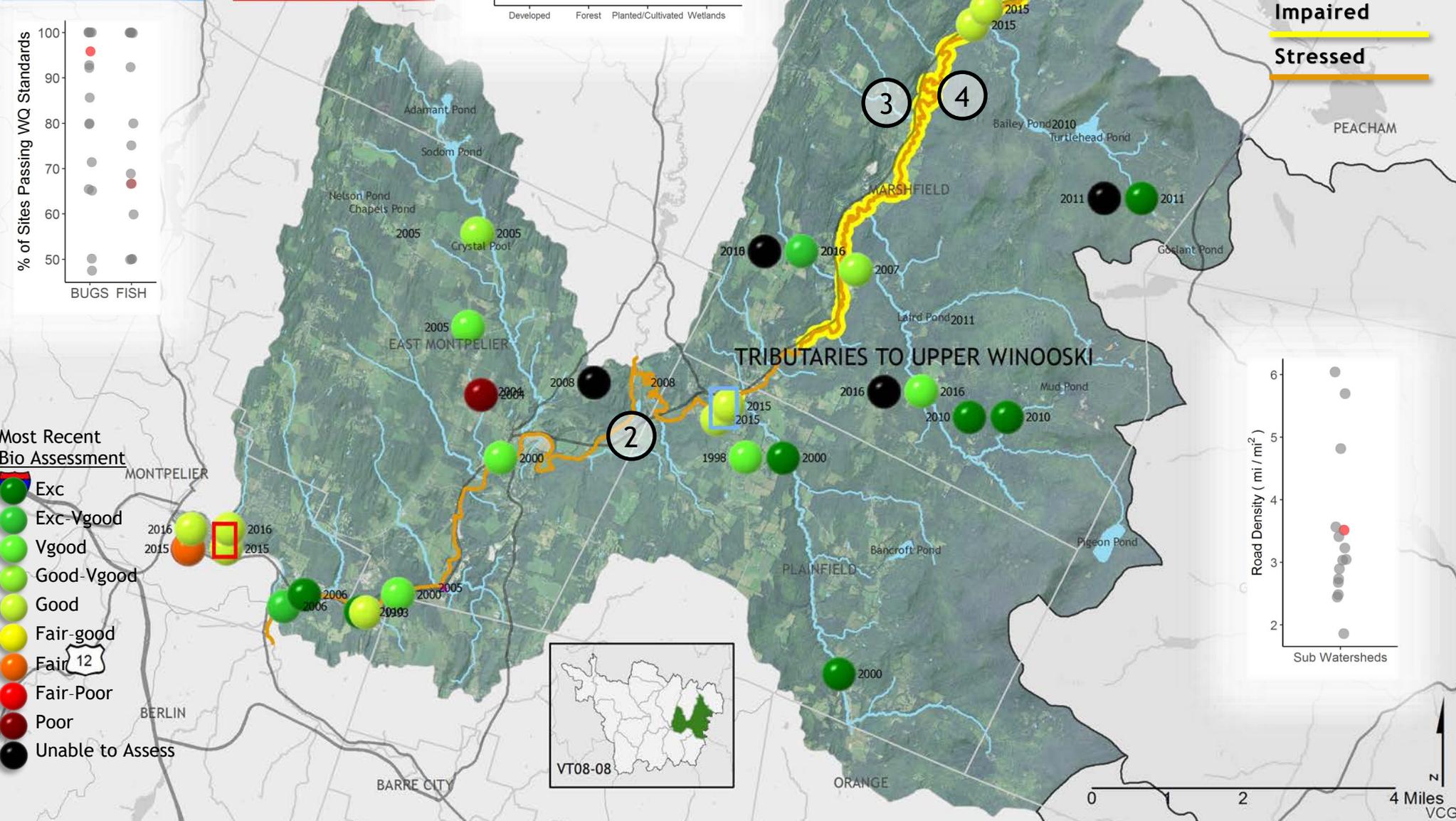


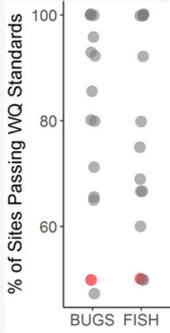


MAP ID	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Blanchard Brook	Impacted Fish Community	Undefined	ALS
2	Winooski River, Below Marshfield Hydrofacility	Low DO from bottom draw dam	LOW D.O.	ALS
3	Winooski River up to Molly Falls Brook	Streambank Erosion, Channel Instability, Road Runoff, <i>E. Coli</i>	Physical alteration, sediments, Nutrients, Turbidity, <i>E. coli</i>	ALS, CR, 2CR
Impaired				
4	Winooski River, RM 72.8 to Mollys Brook	Elevated <i>E. coli</i>	<i>E. Coli</i>	CR
5	Winooski River, RM 70.7 to RM 71.4	Elevated <i>E. coli</i>	<i>E. Coli</i>	CR



Impaired
Stressed

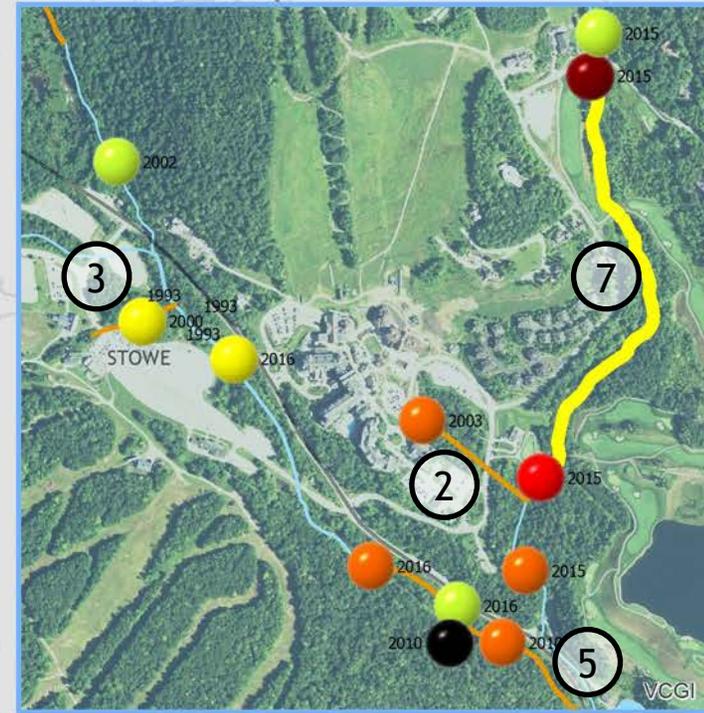




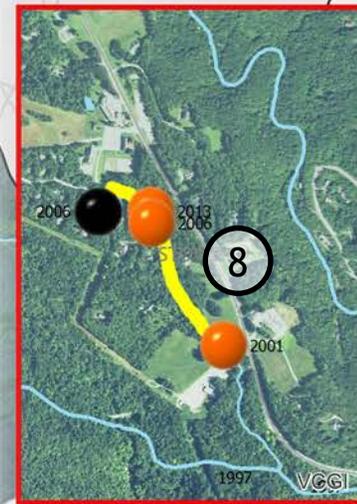
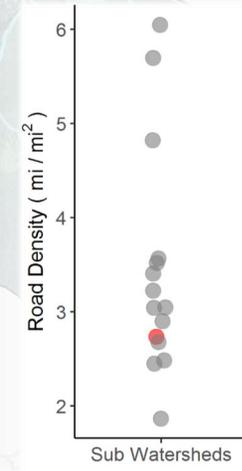
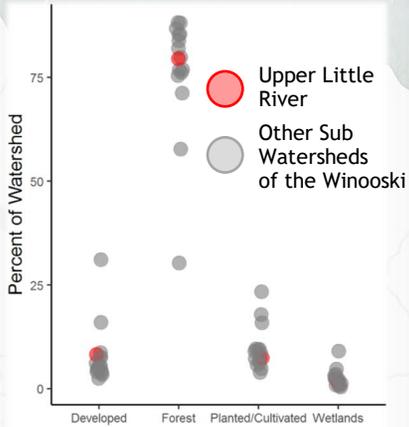
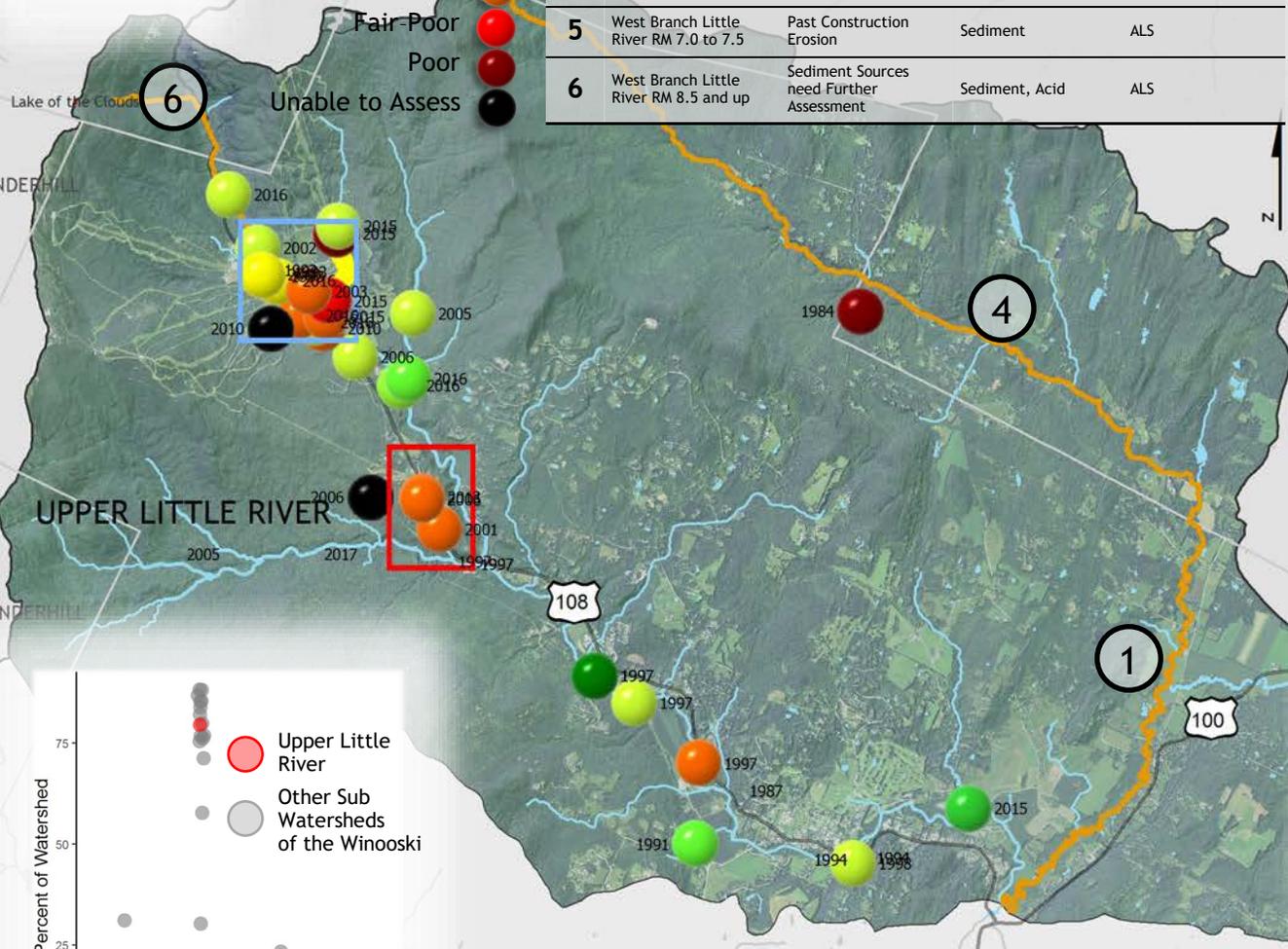
Most Recent Bio Assessment



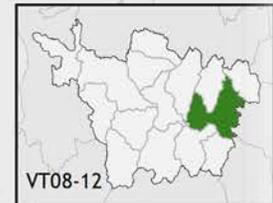
MAP ID	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Little River, up to the West Branch Confluence	Land Development, AG Runoff, Bank Instability	Sediment, Nutrients, <i>E. coli</i>	AES, ALS, CR
2	Little Spruce Brook	Development	Sediment, Physical Alteration	ALS, AES
3	Long Trail Trib	Sediment Sources Need Further Assessment	Sediment, Acid	ALS
4	Sterling Brook	Low Alk Conditions, Acid Rain	Acidity	ALS, 2Cr
5	West Branch Little River RM 7.0 to 7.5	Past Construction Erosion	Sediment	ALS
6	West Branch Little River RM 8.5 and up	Sediment Sources need Further Assessment	Sediment, Acid	ALS

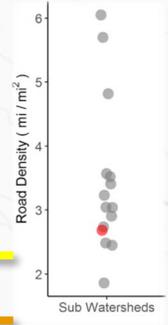
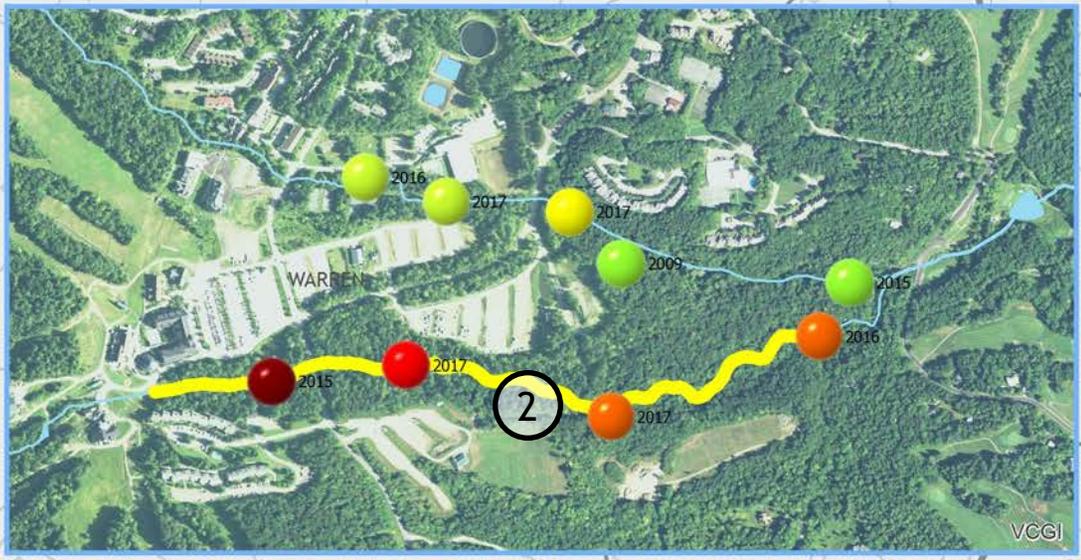
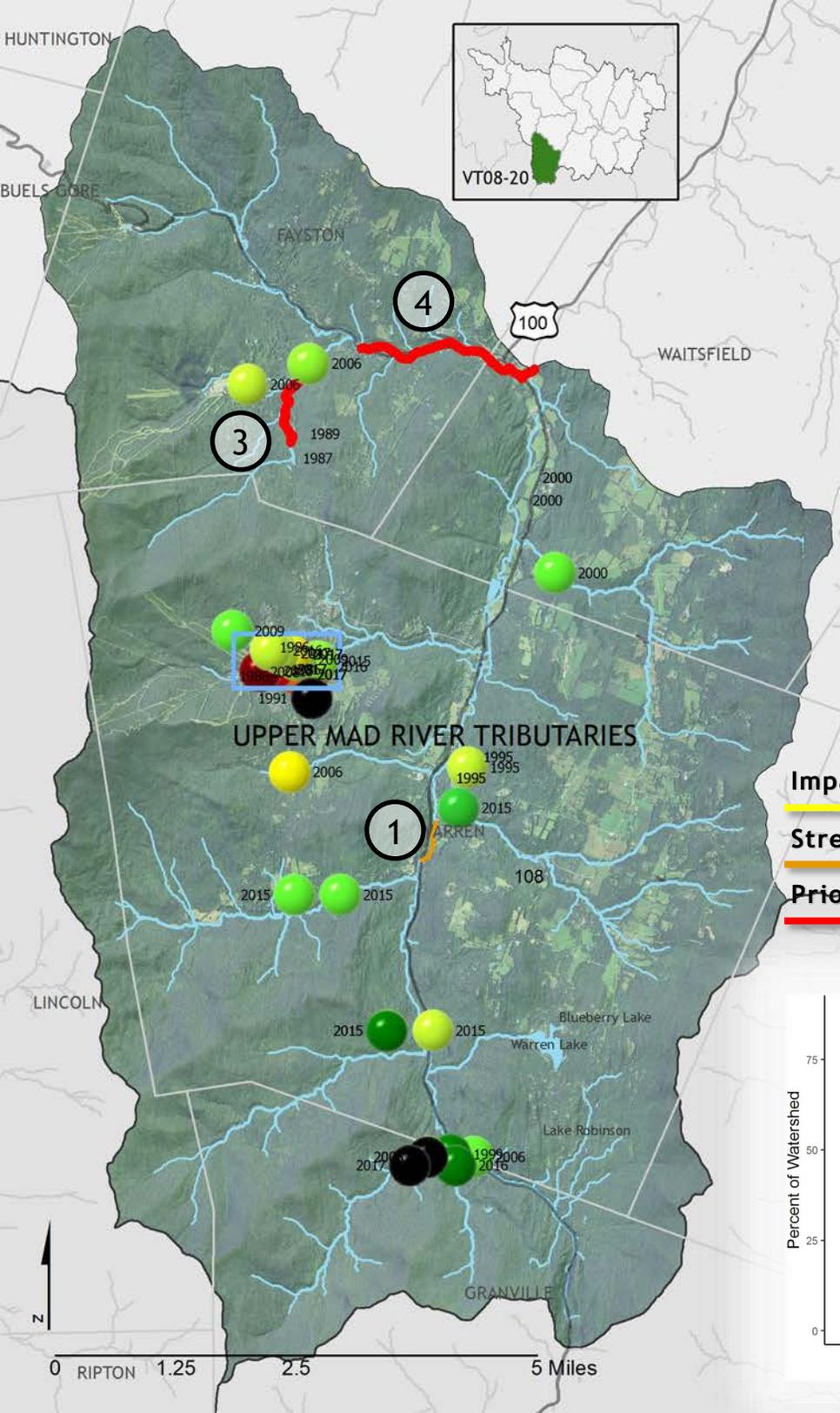


MAP ID	Stream	Problem	Pollutant	Use Impairment
Impaired				
7	Big Spruce Brook RM 0.3 to 0.8	Multiple Iron Seeps from Unknown Causes	Iron	ALS
8	Inn Brook Rm 0.3 to 0.6	Iron Seeps Originating from Disturbed Soils	Iron	ALS, AES



Impaired
Stressed



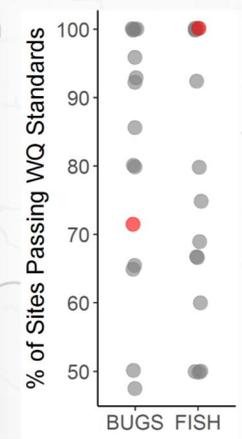
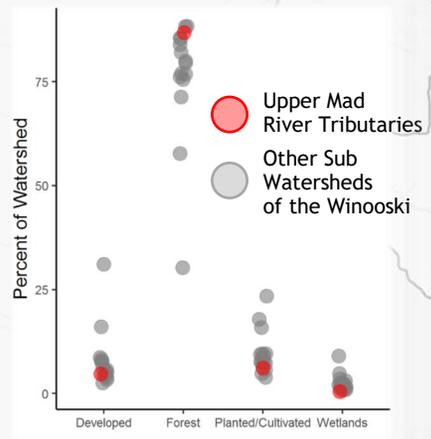


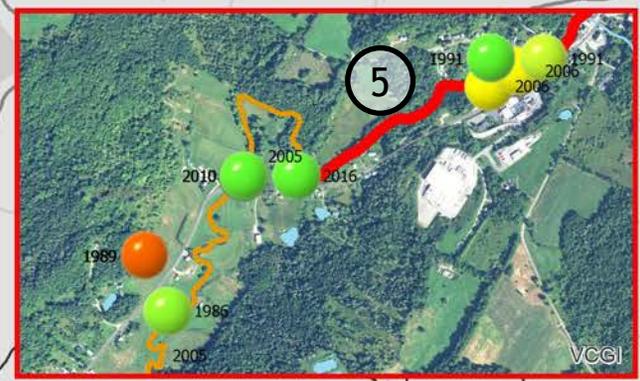
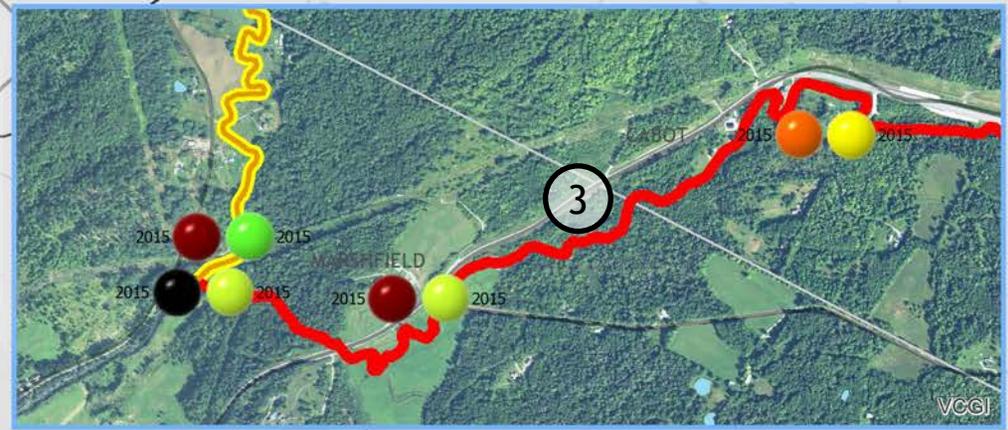
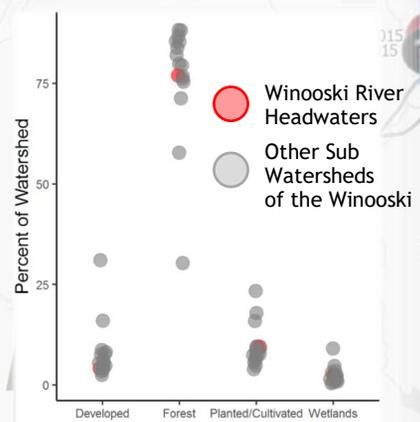
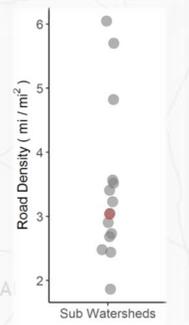
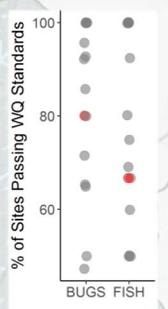
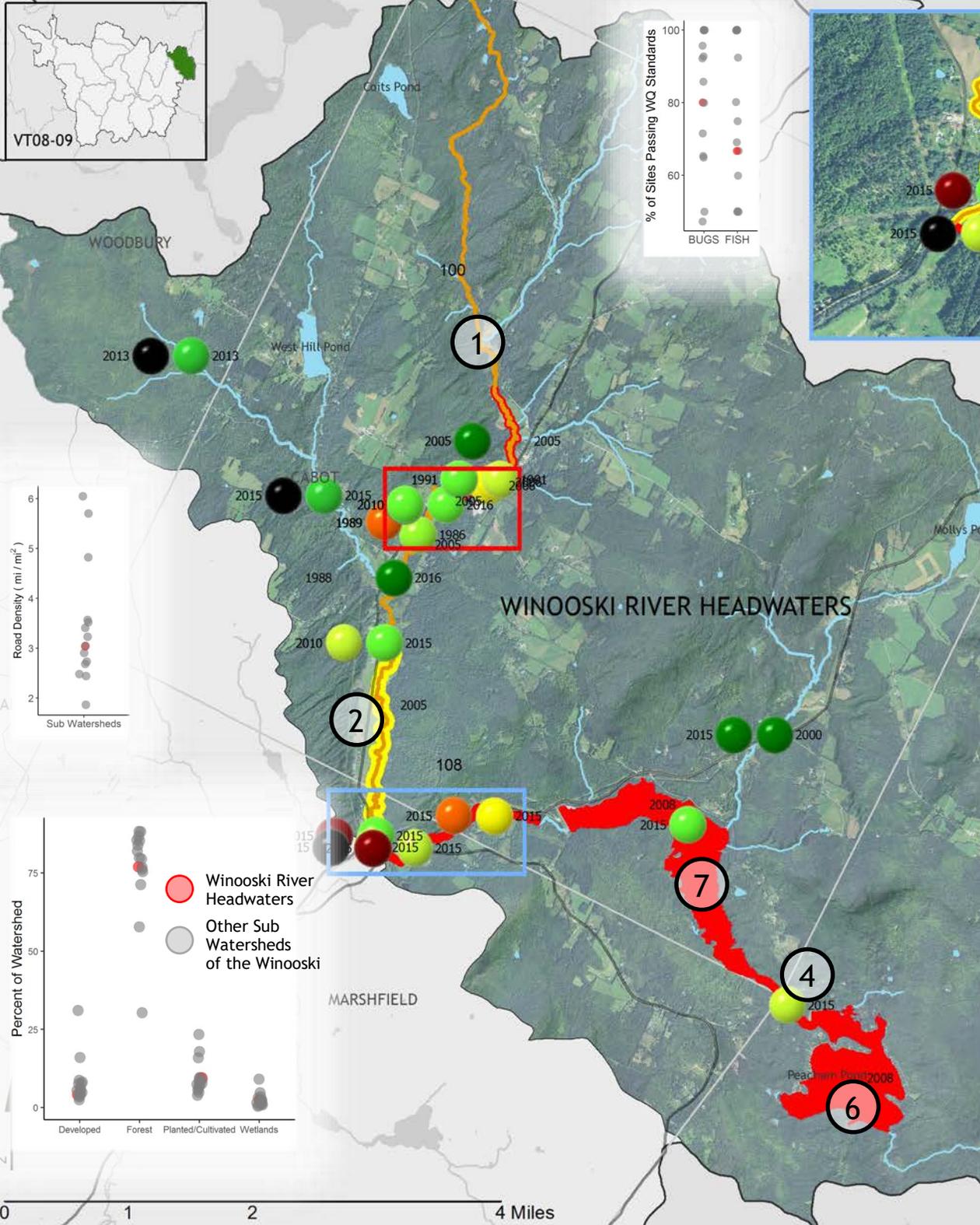
Impaired

Stressed

Priority, Flow

MAP ID	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Mad River, From dam to RT 100	Morphological Instability, and contributions from nearby sandpit	Sediment	AES, ALS
Impaired				
2	Clay Brook, RM 1.8 to RM 2.3	Stormwater Runoff, Erosion from construction & Gravel parking Lot	Stormwater, Iron	ALS, AES
Priority				
3	Mill Brook	Water removal by Mad River Glen Snow	Flow Alteration	All Uses
4	Slide Brook	Water removal by Mad River Glen Snow	Flow Alteration	All Uses





MAP ID	Stream	Problem	Pollutant	Use Impairment
Stressed				
1	Winooski River, From Mollys Falls Brook Upstream 6 Miles	Streambank Erosion, Lack of Riparian Vegetation, Phys. Alt.	Sediment	AES, ALS
Impaired				
2	Winooski River, Caot, Confluence Molly's Brook up to RM 83.8	Elevated <i>E. Coli</i>	<i>E. Coli</i>	CR
PEACHAM Priority				
3	Mollys Falls Brook		Flow Alteration	All Uses
4	Sucker Brook Below Peacham Pond	Water removal by hydro power	Flow Alteration	All Uses
5	Winooski River-Cabot Village	<i>E. coli</i>	<i>E. coli</i>	CR
6	Peacham Pond	Water fluctuation by Dam	Flow Alteration	ALS
7	Mollys Falls Reservoir	Water Fluctuation y Dam	Flow Alteration	ALS, CR, 2CR