



CT DEEP
**Riffle
Bioassessment
by Volunteers**
Program



2015
RBV Program
Annual Summary
Report
(Report #17)
www.ct.gov/deep/rbv



Table of Contents

Acknowledgements	1
RBV: The ‘Treasure Hunt’ for CT’s Healthiest Streams!	2
2015 Executive Summary	3
2015 Participation Summary	4
<i>Table 1. Annual RBV Program Participation Statistics 2010-2015</i>	4
<i>Figure 1. RBV Participation Map</i>	5
2015 Monitoring Results	6
<i>Table 2. Annual RBV Program Monitoring Location Statistics 2010-2015</i>	6
<i>Table 3. Summary of 2015 RBV Voucher Contents by RBV Category</i>	6
<i>Figure 2. 2015 RBV Results Map</i>	7
<i>Table 4. Frequency of RBV Types in 2015 Vouchers</i>	8
<i>Table 5. Detailed 2015 RBV Station Results</i>	9
Interpreting Your RBV Results	12
<i>Table 6. Interpretation of RBV Results by Most Wanted Count</i>	13
Appendix A: 2015 Local RBV Program Contact Information	
Appendix B: 2015 RBV Monitoring Station Descriptions and Details	
Appendix C: 2015 RBV Monitoring Location Photographs	
Appendix D: 2015 RBV ‘Most Wanted’ Types Occurrence Maps	

PHOTO CREDITS

Cover Photos

Top Left: A ‘Michelin Man’ caddisfly, one of the RBV Program’s Most Wanted macroinvertebrate types. (Photo courtesy of the Salmon River Watershed Partnership). **Center Left:** RBV macroinvertebrate vouchers and datasheets ready for submission. (Photo courtesy of the Salmon River Watershed Partnership). **Bottom Left:** Volunteers from the Connecticut Audubon Society work to sort an RBV sample. (Photo courtesy Connecticut Audubon Society). **Bottom Right:** Volunteers from the Vernon Conservation Commission work to sample Barrows Brook. (Photo courtesy Vernon Conservation Commission)

Report Photos

Additional photographs in this report were provided by the group credited beneath the caption – thank you to everyone who contributed!

Acknowledgements

Local leaders across the state deserve special recognition for ensuring that the RBV program is a success each year. These individuals put countless hours into organizing their programs, coordinating with DEEP staff, recruiting and training volunteers, and more. During the 2015 season, the following individuals coordinated local RBV programs - thank you!!

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Judy Rondeau (Niantic River Watershed Committee)

Pat Young (Salmon River Watershed Partnership; Eightmile River Watershed Wild & Scenic Partnership)

The past several years of RBV have come and gone so quickly we haven't had a chance to properly acknowledge some impressive milestones:

- 2015 marked the 10th anniversary of the **Pomperaug River Watershed Coalition's** local RBV program! Way to go PRWC volunteers!
- The **CT Audubon Society** and the **Bolton Conservation Commission** have completed thirteen amazing consecutive years of RBV monitoring – a huge congratulations and thank you to our two longest running programs!
- This season we were happy to welcome the return of two of the RBV program's founding organizations – the **Quinnipiac River Watershed Association** and the **CT River Coastal Conservation District** – welcome back old friends!



And finally, the Riffle Bioassessment by Volunteers Program (RBV) would also not be possible without the dedication of the hundreds of volunteers that participate annually – thank you to each of you! We hope to see you again this fall!

RBV: The Treasure Hunt for CT's Healthiest Streams!

The CT DEEP Riffle Bioassessment by Volunteers or "RBV" Program is an annual fall 'treasure hunt' for Connecticut's healthiest streams. CT DEEP uses the data collected by RBV volunteers to expand its inventory of excellent small, high gradient Connecticut streams that have excellent water quality – our "Healthy Streams" list.

RBV volunteers examine the water quality of local stream segments by studying the aquatic benthic macroinvertebrate community present in rocky or 'riffle' areas of these streams. If volunteers can find four or more pollution sensitive or 'most wanted' macroinvertebrates, CT DEEP can use this data to assess that stream as fully supporting water quality standards for aquatic life use – documenting it as one of CT's healthiest streams! (Because it is a screening approach and not a more in-depth assessment methodology, RBV cannot provide a detailed water quality assessment nor can it be used to identify low or impaired water quality.)



Examples of Connecticut's aquatic macroinvertebrates – commonly called 'stream bugs' by RBV volunteers. Photographs courtesy of The Marvelwood School

Get Involved with RBV Today!

As an RBV volunteer you collect valuable environmental data that will help ensure protection of the beautiful stream in your neighborhood or backyard. If this sounds interesting, DEEP and your local RBV group would love to have your participation! (New volunteers are required to attend training before they can monitor.) Contact the State RBV Program Coordinator to find the program nearest you today!

No program in your area? Start a new program in 2016! If your group is interested in conducting RBV in a watershed or town not currently monitored, contact the State RBV Program Coordinator to discuss establishing a new program. CT DEEP is particularly interested in working with new groups to establish programs in the Medium to Highest priority areas noted in Figure 2 (page 7) of this report.



To learn more contact:

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or visit

www.ct.gov/deep/rbv

2015 Executive Summary

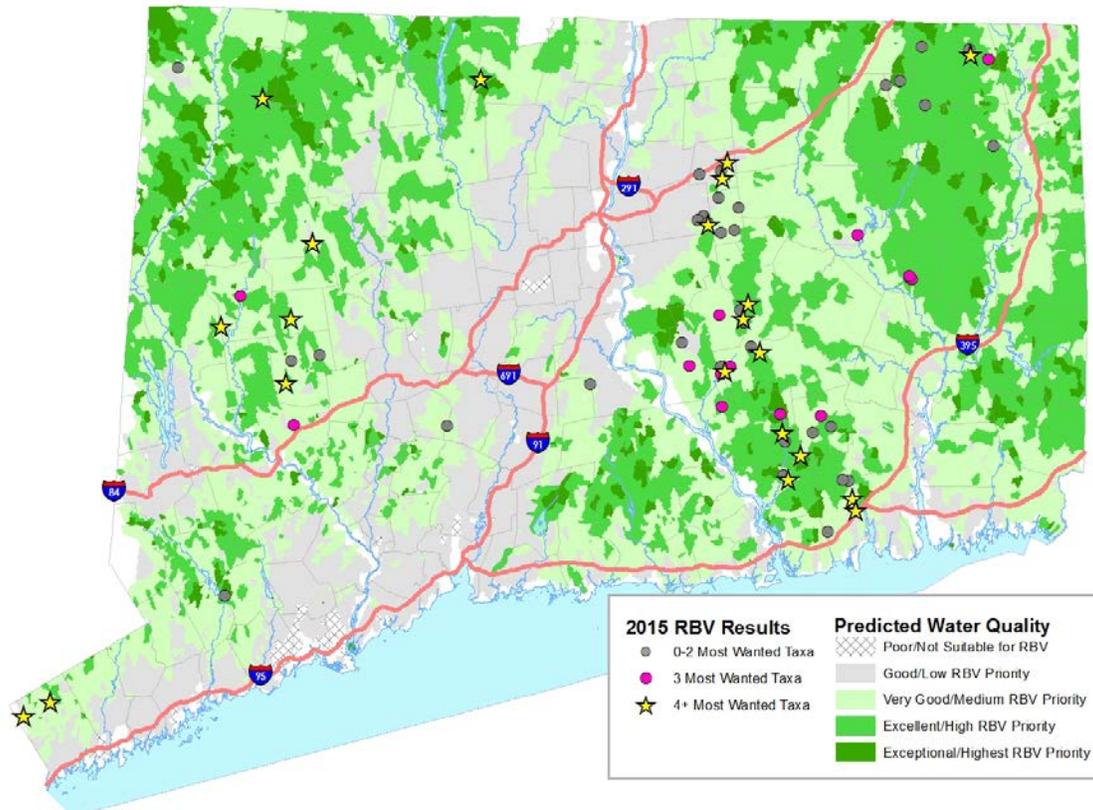


	2011	2012	2013	2014	2015
Total # of RBV Samples	120	132	140	94	68
# of '4 or More' Samples	24	21	33	37	21
% Total '4 or More' Samples	20%	16%	24%	39%	31%
# Stations Monitored	117	127	137	92	68
# Waterbodies Monitored	68	96	92	78	54

The bar for the 2015 RBV program was set very high as the 2014 RBV Program results were the best yet in the 15 year history of the program! Despite the low flows in many of CT's streams this past fall, in 2015, through hard work and dedication, RBV volunteers were once again able to expand upon the Connecticut's healthiest streams inventory!

- **68 vouchers** were collected; **21 of these vouchers (31%) contained 4 or more RBV 'most wanted' taxa**, indicating that these stream segments are among Connecticut's healthiest streams!
- **68 stations** were monitored, including **20 new stations** not previously monitored by DEEP. Stations spanned **68 waterbodies** located in **30 towns**.
- **17 Local RBV Programs coordinated programs in their area**, approximately **350 volunteers** from these groups and local partner organizations participated in the program.

2015 RBV volunteers represented watershed and conservation organizations, local commissions, scout troops, schools, and local businesses - **thank you to all of our 2015 CT DEEP RBV partners!**



2015 Participation Summary

Table 1. Annual RBV Program Participation Statistics 2010-2015

	2010	2011	2012	2013	2014	2015
# Local RBV Programs*	17	16	17	21	22	17
# Groups/Organizations Total*	22	21	22	30	45	31
# Volunteers (estimated)	400	400	400	565	450	350
# Towns Represented	41	44	56	51	39	30

*Local RBV Programs often consist of a partnership between several local groups in the town or watershed.

In 2015, seventeen (17) Local RBV Programs contributed data to the State (Table 1, Figure 1). Local RBV Programs consisted of partnerships between a variety of groups and organizations, including, river and watershed associations, local conservation commissions and agencies, environmental conservation groups, and educational institutions.

River and Watershed-Based Organizations:

- Eightmile River Wild & Scenic Coordinating Committee
- Farmington River Watershed Association
- Housatonic Valley Association
- Niantic River Watershed Committee
- Pomperaug River Watershed Coalition
- Quinnipiac River Watershed Association
- Salmon River Watershed Partnership
- The Last Green Valley

Environmental Conservation Groups:

- Colchester Land Trust
- Connecticut Audubon Society Citizen Science Program
- Conservation Discovery Corps at Connecticut's Beardsley Zoo
- CT River Coastal Conservation District
- Eastern CT Conservation District
- The Nature Conservancy
- Trout Unlimited, Thames Valley Chapter

Municipal Groups:

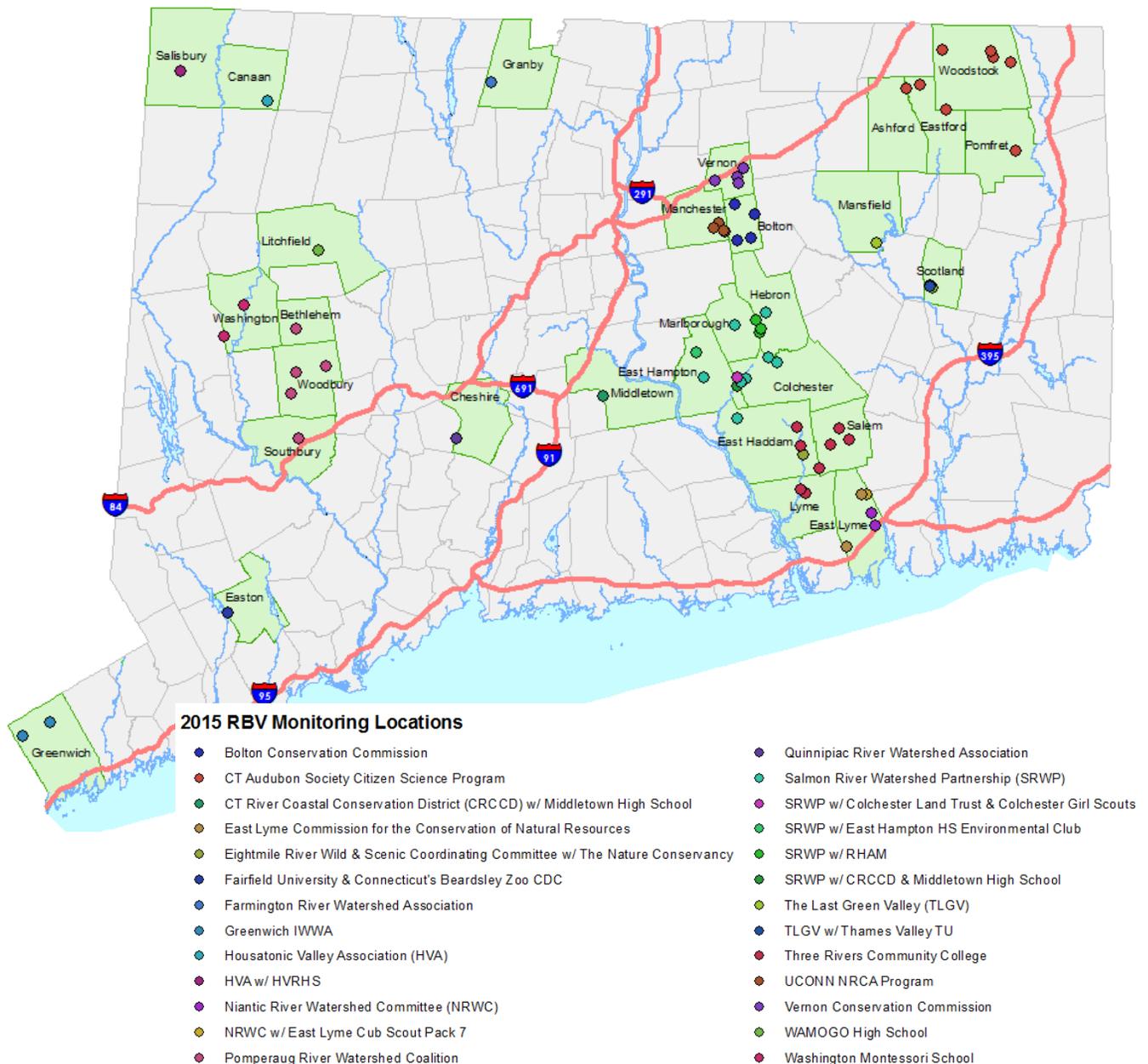
- Bolton Conservation Commission
- East Lyme Commission for the Conservation of Natural Resources
- Town of Greenwich Inland Wetlands & Watercourses Agency
- Vernon Conservation Commission

Education-Based Partners:

- Colchester Girl Scouts
- Cub Scouts Pack 7 (East Lyme)
- East Hampton High School Environmental Science Club
- Fairfield University
- Housatonic Valley Regional High School
- Middletown High School
- RHAM High School
- The Marvelwood School
- Three Rivers Community College
- UConn NRCA Program
- WAMOGO High School
- Washington Montessori School

Figure 1 (below). RBV monitoring locations spanned a **total of 30 Connecticut towns** in 2015 including:

- | | | | |
|----------------|--------------|---------------|--------------|
| • Ashford | • East Lyme | • Manchester | • Scotland |
| • Bethlehem | • Eastford | • Mansfield | • Southbury |
| • Bolton | • Easton | • Marlborough | • Union |
| • Canaan | • Granby | • Marlborough | • Vernon |
| • Cheshire | • Greenwich | • Middletown | • Washington |
| • Colchester | • Hebron | • Pomfret | • Woodbury |
| • East Haddam | • Litchfield | • Salem | • Woodstock |
| • East Hampton | • Lyme | • Salisbury | |



2015 Monitoring Results

2015 marked the 17th year volunteer monitoring groups collected and submitted vouchers to DEEP under the RBV program. An estimated 350 volunteers representing seventeen (17) Local RBV Programs participated in the 2015 program. **Together, volunteers collected 68 vouchers from 68 unique locations on 54 different waterbodies (Table 2, Figure 2).** The distribution of most wanted types in the samples ranged from 0 to 10, with total taxa types present in the vouchers ranging from 3 to 23.

Table 2. Annual RBV Program Monitoring Location Statistics 2010-2015

	2010	2011	2012	2013	2014	2015
RBV Samples Submitted	119	120	132	140	94	68
# Monitoring Stations (Appendix B)	106	117	127	137	92	68
# Streams Monitored	76	68	96	92	78	54
# Samples w/ 4+ "Most Wanted" Types	18 (15%)	24 (20%)	21 (16%)	33 (24%)	37 (39%)	21 (31%)

Twenty-one (21) of the 2015 monitoring sites had 4 or more types in the ‘Most Wanted’ category, indicating that these stream segments are among Connecticut’s healthiest streams. Table 3 below summarizes the range of 2015 results by taxa category (i.e. “most”, “moderately” or “least” wanted/sensitive.). Detailed results for the 2015 RBV Program (i.e. voucher contents) are shown in Table 4.

Table 3. Summary of 2015 RBV Voucher Contents by RBV Category

	Min	Max	Mean	Median
Most Sensitive (Most Wanted) Taxa	0	10	2.9	3
Moderately Sensitive Taxa	1	8	4.6	5
Least Sensitive Taxa	0	4	1.2	1
Other Taxa	0	7	3.2	3
Total Taxa Count	3	23	11.9	12



Above: A volunteer with the Thames Valley Chapter of Trout Unlimited monitors Beaver Brook in Scotland, Ct. Welcome to the RBV community Thames Valley TU!

Figure 2. 2015 RBV Results Map. The number of 'Most Wanted' macroinvertebrate types present in 2015 RBV voucher samples. Sites are considered to be 'healthy' if 4 or more 'Most Wanted' macroinvertebrate taxa were present and can be considered for listing as fully supporting aquatic life use support in the Integrated Water Quality Report.

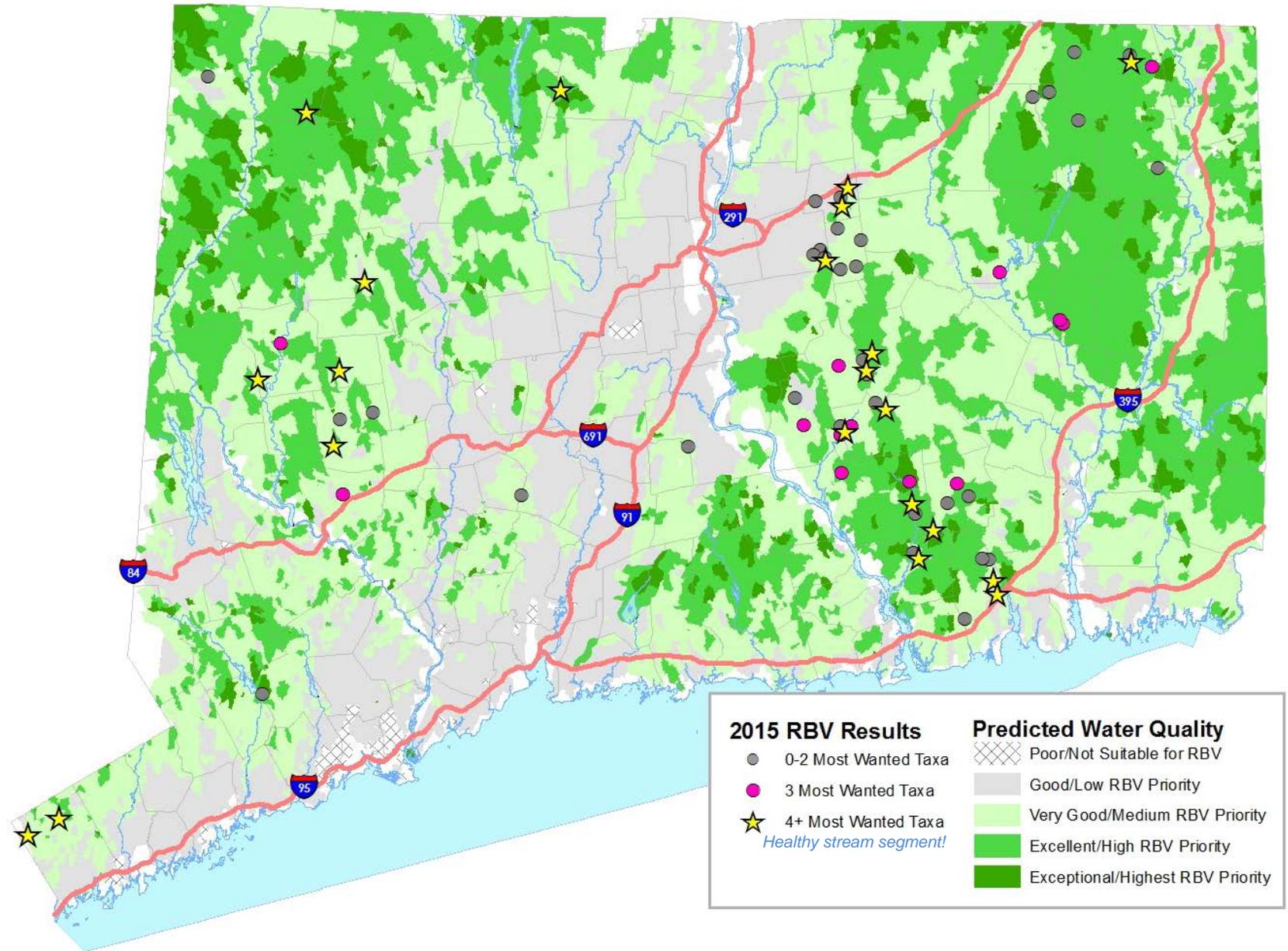


Table 4 shows the frequency with which RBV taxa types were identified in vouchers. Appendix D contains maps of the occurrence of most wanted types in 2015.

Table 4. Frequency of RBV Types in 2015 Vouchers

			#Vouchers with Taxa	%Vouchers with Taxa	Frequency Rank*
Most Wanted (Most Sensitive) Taxa	1	<i>Drunella sp.</i>	0	0%	35
	2	<i>Isonychia sp.</i>	29	43%	8
	3	<i>Epeorus sp.</i>	5	7%	26
	4	Peltoperlidae (All genera)	12	18%	15
	5A	Perlidae (All genera)	54	79%	1
	5B	<i>Pteronarycs sp.</i>	5	7%	25
	5C	Capniidae	1	1%	34
		Perlodidae	3	4%	32
		Leuctridae	3	4%	31
		Chloroperlidae	4	6%	28
		Nemouridae	9	13%	21
		Taeniopterygidae	10	15%	18
	6A	<i>Glossosoma sp.</i>	21	31%	12
	6B	<i>Apatania sp.</i>	4	6%	27
	7	<i>Rhyacophila sp.</i>	17	25%	13
8A	<i>Brachycentrus sp.</i>	11	16%	17	
8B	<i>Lepidostoma sp.</i>	7	10%	22	
Moderately Sensitive Taxa	9	Hydropsychidae	52	76%	3
	10	Philopotamidae	42	62%	5
	11	<i>Maccaffertium sp.</i>	45	66%	4
	12	<i>Psephenus sp.</i>	40	59%	6
	13A	<i>Corydalus sp.</i>	9	13%	20
	13B	<i>Nigronia sp.</i>	53	78%	2
	14A	Gomphidae	5	7%	24
		Cordulegasteridae	24	35%	11
		Aeshnidae	29	43%	7
	14B	Calopterygidae	3	4%	30
Coenagrionidae		11	16%	16	
Least Sensitive Taxa	15A	Amphipoda	9	13%	19
	15B	Isopoda	6	9%	23
	15C	Leech	2	3%	33
	15D	Midge	24	35%	10
	15E	Simuliidae	3	4%	29
	15F	Snail	12	18%	14
	15G	Worm	24	35%	9

Similar to previous years, the ‘top five’ RBV taxa found in 2015 vouchers included the common stonefly (Perlidae), fishfly (*Nigronia sp.*), the common net-spinner caddisfly (Hydropsychidae), three-tailed mayfly (*Maccaffertium sp.* and *Stenonema sp.*), and the fingernet caddisfly (Philopotamidae). The five least common taxa in the 2015 vouchers included several families of miscellaneous stoneflies (Nemouridae, Capniidae, and Perlodidae), along with Coenagrionidae (dragonfly), and leech. No vouchers contained the ‘body builder’ mayfly (*Drunella sp.*).

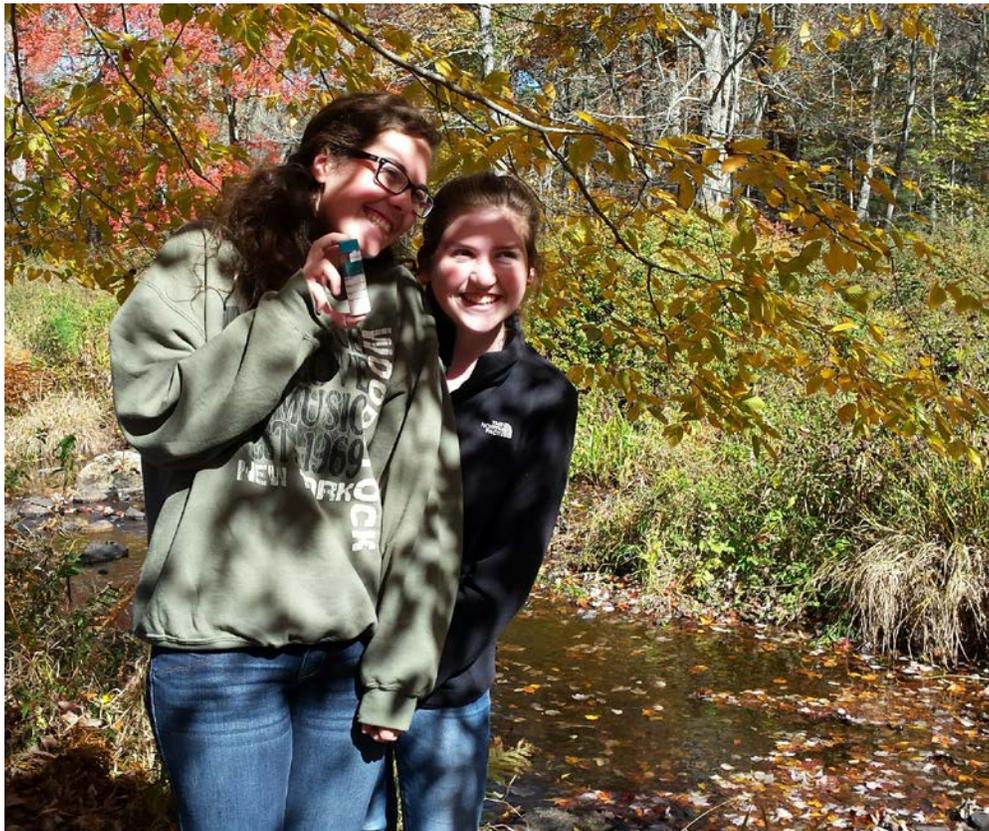
Station #	Waterbody Name	Town	Date	1	2	3	4	5A	5B	5C	6A	6B	7	8A	8B	TOTAL Most Wanted	9	10	11	12	13A	13B	14A	14B	TOTAL Moderately Wanted	15A	15B	15C	15D	15E	15F	15G	TOTAL Least Wanted	TOTAL Other Taxa Count	GRAND TOTAL Taxa Count	
18499	Cranberry Meadow Brook	EAST LYME	10/19				X									1		X	X	X		X	X		6								0	3	10	
16119	Day Pond Brook	COLCHESTER	11/21				X	X		X						3	X		X			X	X		4				X				1	2	10	
16324	Dickinson Creek	COLCHESTER	9/12		X		X						X	X		4	X	X	X	X	X	X	X		7						X		1	0	12	
17765	Dickinson Creek	COLCHESTER	10/18				X						X			2	X			X		X	X		4								0	2	8	
18962	E. Branch Eightmile River	SALEM	10/31		X		X			X				X		4	X	X	X	X		X	X		6								0	5	15	
16122	Early Brook	EAST HADDAM	10/31				X	X							X	3		X				X		X	3				X				1	2	9	
18518	Eightmile River	EAST HADDAM	10/17		X		X				X			X	X	5	X	X	X	X		X	X		7								0	5	17	
18936	Eightmile River	LYME	10/17		X		X									2	X	X	X	X	X	X	X		7				X				1	3	13	
18979	Enders Brook	GRANBY	10/6		X		X	X		X	X		X			6	X	X	X	X		X			5		X		X				2	7	20	
18998	English Neighborhood Brook	WOODSTOCK	10/9		X		X									2			X	X	X	X	X		6				X		X		2	2	12	
16440	Fawn Brook	HEBRON	11/14				X	X		X		X				4	X	X		X		X	X		5								0	6	15	
18433	Fawn Brook	MARLBOROUGH	10/15		X		X									2	X	X	X	X		X	X		7				X				1	4	14	
18846	Fawn Brook	HEBRON	10/15		X		X				X		X			4	X	X		X		X	X		5				X				1	2	12	
15888	Fawn Brook, W. Branch	MARLBOROUGH	10/15		X		X									2	X			X		X	X		4						X		1	6	13	
17322	Fourmile River	EAST LYME	11/21							X						2						X		X	2	X			X		X		3	3	10	
18961	Fraser Brook	SALEM	10/31				X									1	X			X		X		3		X							1	1	6	
15592	French Brook	BOLTON	11/15										X			1	X					X	X	X	4						X		1	1	7	
16696	GOODHILL BROOK	WOODBURY	9/19				X	X		X	X					4	X	X	X			X		4					X			X		2	5	15
16699	GRAVELLY BROOK	WOODSTOCK	10/31				X	X		X					X	4			X	X				2									0	5	11	
15313	Harris Brook	SALEM	10/17		X		X									2	X		X			X	X		5				X				1	3	11	
18729	Harris Brook	SALEM	10/31		X		X		X							3	X	X	X		X	X	X		8								0	3	14	
18817	Hawleys Brook	EASTON	10/10				X		X							2			X			X	X		4				X				1	3	10	
16167	Jeremy River	COLCHESTER	9/12				X						X			2	X		X		X	X		5				X					1	5	13	
17324	Latimer Brook	EAST LYME	11/14				X				X					2	X	X	X	X			X		5	X						X		2	2	11
18413	Latimer Brook	EAST LYME	10/15		X		X		X				X			4	X	X	X	X		X	X	X	8	X					X	X		3	1	16
18495	Latimer Brook	EAST LYME	10/15				X		X				X			4	X	X		X		X		5	X	X						X		3	6	18
16088	Lebanon Brook	WOODSTOCK	9/11				X									1	X	X	X			X	X		5								0	0	6	
18981	Lyman Brook	MARLBOROUGH	10/24				X	X		X						3	X	X				X	X		4								0	7	14	

Station #	Waterbody Name	Town	Date	Taxa												TOTAL Most Wanted	Taxa							TOTAL Moderately Wanted	TOTAL Least Wanted	TOTAL Other Taxa Count	GRAND TOTAL Taxa Count							
				1	2	3	4	5A	5B	5C	6A	6B	7	8A	8B		9	10	11	12	13A	13B	14A					14B	15A	15B	15C	15D	15E	15F
18982	Meadow Brook	COLCHESTER	9/28		X			X				X	X		4	X	X	X	X		X	X		6								0	4	14
15211	Merrick Brook	SCOTLAND	10/31		X	X		X							3		X	X			X	X		4				X				1	5	13
18871	Moodus River	EAST HADDAM	9/19					X			X			X	3	X		X	X	X	X	X	X	7					X		X	2	2	14
16335	Nonewaug River	WOODBURY	9/19		X			X							2	X	X	X	X		X	X		6				X				1	2	12
17923	Peckham Brook	WOODSTOCK	10/24				X	X			X		X		4	X	X	X			X	X		5	X							1	4	14
18983	Pocotopaug Creek	EAST HAMPTON	10/10					X			X		X		3	X	X		X		X	X		5	X							1	2	11
16995	Railroad Brook	VERNON	10/17					X							1	X	X		X			X		4						X	1	2	8	
17703	Railroad Brook	VERNON	10/17			X	X	X	X			X			7	X	X	X	X		X	X		6						X	1	3	17	
17971	Railroad Brook	BOLTON	11/15					X							1	X	X	X	X			X		6				X		X	X	3	3	13
18980	Roaring Brook	CHESHIRE	9/27					X		X					2				X		X		2								0	1	5	
14440	Salmon River	EAST HAMPTON	9/12		X			X					X		3	X		X	X	X	X	X		6				X			X	2	6	17
15007	Sawmill Brook	MANSFIELD	10/23		X			X			X				3	X			X		X			3							0	2	8	
16431	Sprain Brook	WOODBURY	9/19		X										1	X	X	X	X		X			5				X			X	2	5	13
15713	Still River	WOODSTOCK	9/25		X			X			X				3			X	X		X	X		4				X				1	1	9
18967	Sutton's Brook	GREENWICH	11/20		X					X			X		4	X		X						2				X				1	4	11
18823	Tucker Brook	VERNON	10/17					X							1	X	X					X		3						X	1	1	6	
18958	Walker Brook	WASHINGTON	10/26			X			X			X	X		4	X		X	X					3							0	5	12	
17593	Wappoquia Brook	POMFRET	10/10		X			X			X				3	X	X	X	X		X	X		6							0	2	11	
18984	Willey's Brook (Christopher Brook)	EAST HAMPTON	11/13								X		X		2	X	X	X			X	X		5					X	X	2	3	12	
17333	Wood Creek	BETHLEHEM	9/19		X	X	X	X	X	X	X	X	X	X	10	X	X	X	X		X			5						X	1	7	23	

Interpreting Your Results

2015 RBV monitoring locations that supported four or more ‘Most Wanted’ macroinvertebrate types, are considered to be characterized by excellent water quality conditions. DEEP will integrate these ‘4 or more’ results into the biennial water quality assessment process, noting them as one of Connecticut’s healthy waters.

Table 6 provides guidance for how to interpret your RBV results. Table 6 is intended to serve as general guidance; Local RBV Program Coordinators are encouraged to contact the State RBV Coordinator to discuss follow-up actions for specific monitoring locations as needed.



Above: Students from RHAM High School proudly display their RBV voucher for the West Branch of Fawn Brook in Marlborough, CT. RHAM is a returning RBV participant, monitoring under the supervision of the Salmon River Watershed Partnership’s local RBV program.

Table 6. Interpretation of RBV Results by Most Wanted Count.

# 'Most Wanted' Organisms	What Does it Tell Us?
<p>0-1</p>	<p><i>Drop this site from future monitoring efforts...</i></p> <p>More information is needed to determine why Most Wanted types were rare or absent in the sample. Reasons may include poor water quality, but it could also be that this just isn't the right type of site for RBV. If there are no concerns regarding the volunteer sampling effort, follow-up RBV monitoring is not suggested for this site.</p> <p>DEEP Assessment Decision: No Assessment Made</p> <p>Recommended Volunteer Follow-Up Action: Do not revisit this site with RBV.</p>
<p>2</p>	<p><i>Double check whether this is a good spot to be using the RBV method...</i></p> <p>More information is needed to determine why Most Wanted types were limited in the sample. Reasons may include less than excellent water quality or unusual flow conditions (i.e. very high or very low) during the monitoring season; however, it could also be that this site does not have adequate riffle habitat or that your volunteers may need additional, targeted training.</p> <p>DEEP Assessment Decision: No Assessment Made</p> <p>Recommended Volunteer Follow-Up Action:</p> <p>Volunteers should cease using RBV to monitor this site if:</p> <ul style="list-style-type: none"> • The site does not meet the RBV site requirements (i.e. no riffle habitat or watershed area >15 mi²); • The MMI model score prediction is less than 48 (see Appendix B); or • The site was previously monitored using RBV and less than 4 most wanted were found during the last monitoring event. <p>If this is a first time monitoring location, and none of the above bullets are true, assign the site a low to medium priority for follow-up monitoring. Volunteers may also need additional targeted training to insure that they are collecting their sample from riffle habitat, checking for organisms attached to cobbles, and able to distinguish between organism types when sorting.</p> <p><i>(Continued on next page)</i></p>

# 'Most Wanted' Organisms	What Does it Tell Us?
3	<p><i>A Very Good Sign – Keep this Site on Your Radar!</i></p> <p>Three Most Wanted or very sensitive macroinvertebrate types in a sample is a strong signal of good to excellent water quality. Although three most wanted is not statistically enough data for DEEP to list the site as 'fully supporting' State water quality standards without additional monitoring, particularly if this is the first piece of data we have at this site, this is a great find!</p> <p>DEEP Assessment Decision: No Assessment Made... but consider trying again!</p> <p>Recommended Volunteer Follow-Up Action: If this was the first time the site was monitored with RBV, and the site's water quality is predicted to be high (e.g. high MMI score) this site should be a high priority candidate for re-monitoring next RBV season. Pay careful attention to net placement within riffle habitat, avoiding the edges of the stream. Instruct volunteers to also give extra attention to rock scrubbing/substrate kicking during the 2015 monitoring effort. A second look at that cobble before you toss it might be all it takes to get that 4th Most Wanted type in your sample!</p> <p>If however this site was previously monitored with RBV and 3 or fewer most wanted types were found, this site should be assigned a lower priority than those sites in your region that have not yet been monitored with RBV and that are predicted to have a water quality/MMI score greater than 48.</p>
4+	<p><i>Excellent!! Lots of very sensitive macroinvertebrate types were present – you found the treasure!</i></p> <p>This is a very clear signal of excellent water quality as the 'Most Wanted' types cannot survive in degraded streams or otherwise low water quality conditions.</p> <p>DEEP Assessment Decision: Considered for 'Fully Supporting' State aquatic life use standards. Fully supporting sites will be listed in next Integrated Water Quality Report and submitted to EPA and Congress</p> <p>Recommended Volunteer Follow-Up Action: Revisit every 2 to 5 years to continue documenting the excellent health of this stream.</p>

Appendix A: 2015 Local RBV Program Contact Information

Bolton Conservation Commission	Rod Parlee	captundra@aol.com
CT Audubon Society - Pomfret Center Citizen Science Program	Paula Coughlin	paulacoughlin@charter.net
East Lyme Conservation Commission	Penny Howell	Penny.howell@ct.gov
Eightmile River Wild & Scenic Coordinating Committee &	Pat Young	pyoung@eightmileriver.org
Three Rivers Community College	Diba Khan-Bureau	dkhan-bureau@trcc.comnet.edu
Fairfield University & Connecticut's Beardsley Zoo CDC	Jim Biardi Gian Morresi	jbiardi@fairfield.edu cdc@beardsleyzoo.org
Farmington River Watershed Association	Alisa Phillips-Griggs	aphillipsgriggs@frwa.org
Housatonic Valley Association	Mike Jastremski	Mj.hva@outlook.com
Niantic River Watershed Committee	Judy Rondeau	judy.rondeau@comcast.net
Pomperaug River Watershed Coalition	Carol Haskins	chaskins@pomperaug.org
Quinnipiac River Watershed Association	Becky Martorelli	beckym06451@yahoo.com
Salmon River Watershed Partnership	Pat Young	salmonriverct@att.net
The Last Green Valley	Jean Pillo	jean.pillo@conservect.org
Town of Greenwich IWWA	Doreen Carroll-Andrews	dcarroll@greenwichct.org
Vernon Conservation Commission	Tom Ouellette Jane Seymour	tom.r.ouellette@gmail.com jane.seymour@ct.gov
WAMOGO High School	Chris Brittain	cbrittain@rsd6.org
Washington Montessori School	Tom Fahsbender	tfahsbender@washingtonmontessori.org

Appendix B: 2015 RBV Monitoring Station Description & Details

The following provides a description of the official CT DEEP monitoring station to which 2015 RBV samples were assigned. Note that the actual RBV monitoring location may have been slightly upstream or downstream of the official DEEP station.

Locations are sorted by DEEP Station ID number. The number of most wanted types found during 2015 monitoring, the associated upstream watershed area and the predicted water quality score (i.e. Macroinvertebrate Multimetric Index or MMI score) are shown at the far right.

Organization Abbreviation Key:

Code	Local RBV Program Name
BCC	Bolton Conservation Commission
CAS	CT Audubon Society - Pomfret Center
CRCCD	CT River Coastal Conservation District
ELCC	East Lyme Conservation Commission
FRWA	Farmington River Watershed Association
FFLDU/ZOO	Fairfield University & Connecticut's Beardsley Zoo CDC
GIWWA	Town of Greenwich IWWA

Code	Local RBV Program Name
HVA	Housatonic Valley Association
NRWC	Niantic River Watershed Committee
PRWC	Pomperaug River Watershed Coalition
QRWA	Quinnipiac River Watershed Association
SRWP	Salmon River Watershed Partnership
TLGV	The Last Green Valley
TRCC	Three Rivers Community College

Code	Local RBV Program Name
NRCA	UConn Natural Resources Conservation Academy Program
VCC	Vernon Conservation Commission
WHS	WAMOGO High School
WMS	Washington Montessori School
8MILE	Eightmile River Wild & Scenic Coordinating Committee

Station #	Stream Name	Volunteer Location Description	Town	Latitude	Longitude	Upstream Area (mi ²)	Predicted Water Quality Score (0-100)	Local RBV Program	Date	Most Wanted Count
14440	Salmon River	at Salmon River State Forest picnic area	EAST HAMPTON	41.55260	-72.44960	101.9	67	SRWP	9/12/15	3
14523	Burton Brook	200ft upstream, 15 ft. of Walton Road Bridge	SALISBURY	41.96670	-73.43410	3.7	64	HVA	10/22/15	1
15007	Sawmill Brook	100 ft. upstream of culvert on Conantville Rd	MANSFIELD	41.73980	-72.20170	3.7	61	TLGV	10/23/15	3
15138	Bantam River	Route 63	LITCHFIELD	41.73050	-73.18680	21.6	58	WHS	11/9/15	4
15211	Merrick Brook	100 ft. upstream of Bass Rd	SCOTLAND	41.68000	-72.10480	11.5	68	TLGV	11/2/15	3
15312	Beaver Brook	350m from Beaver Brook Rd, 36m down river from wood bridge	LYME	41.40995	-72.32906	8.6	76	TRCC	10/17/15	4
15313	Harris Brook	Walden Preserve	SALEM	41.47330	-72.28510	6.2	67	TRCC	10/17/15	2
15315	Burnham's Brook	mouth	EAST HADDAM	41.46030	-72.33430	5.4	68	8MILE	10/20/15	0
15519	Bee Brook	100m upstream of Shepaug Confluence	WASHINGTON	41.65710	-73.31810	4.8	63	WMS	10/23/15	3
15592	French Brook	126 French Road (downstream)	BOLTON	41.74420	-72.44850	0.8	60	BCC	11/15/15	1
15594	Barrows Brook	50 ft. upstream from Tankerhoosen River confluence	VERNON	41.84020	-72.43650	0.6	47	VCC	10/17/15	4
15713	Still River	at Rte. 198 - south of Eastford/Woodstock line	WOODSTOCK	41.91580	-72.07740	7.8	70	CAS	9/25/15	2

Station #	Stream Name	Volunteer Location Description	Town	Latitude	Longitude	Upstream Area (mi2)	Predicted Water Quality Score (0-100)	Local RBV Program	Date	Most Wanted Count
15888	Fawn Brook, W. Branch	75ft above confluence with east branch	MARLBOROUGH	41.63920	-72.41550	4.2	72	SRWP	10/15/15	2
16088	Lebanon Brook	at culvert crossing Rte. 198/Eastford Rd - downstream of Griggs Pond	WOODSTOCK	41.99450	-72.08360	2.1	79	CAS	9/11/15	1
16119	Day Pond Brook	15 upstream confluence with Salmon River	COLCHESTER	41.56230	-72.43380	1.1	61	SRWP	11/21/15	3
16122	Early Brook	24m upstream of Haywardville Rd	EAST HADDAM	41.49780	-72.34350	2.3	81	TRCC	10/31/15	3
16139	Brown Brook	50m upstream of Rte. 63 crossing	CANAAN	41.92670	-73.27990	5.7	94	HVA	10/19/15	6
16167	Jeremy River	0.25 mi downstream Rte. 149 and Rte. 2	COLCHESTER	41.58940	-72.39480	35.8	62	SRWP	9/12/15	2
16266	Bolton Pond Brook	634 Hop River Rd, Upstream of bridge	BOLTON	41.77840	-72.41670	5.1	57	BCC	11/15/15	2
16323	Coginchaug River	50 ft. upstream of Rte. 157 crossing	MIDDLETOWN	41.53940	-72.68580	33.3	55	CRCCD	10/15/15	2
16324	Dickinson Creek	50 yds. downstream of Comstock Bridge Rd	COLCHESTER	41.55750	-72.44200	15.1	64	SRWP	9/12/15	4
16333	Bullet Hill Brook	Ewald Park, approx. 300 ft. US confluence with Pomperaug River	SOUTHBURY	41.48260	-73.22050	3.6	44	PRWC	9/19/15	3
16335	Nonewaug River	Adjacent to the USGS streamflow gage, access from Mill Road	WOODBURY	41.57830	-73.17450	16.3	54	PRWC	9/19/15	2
16431	Sprain Brook	DS Route 47 adjacent to Papermill Road	WOODBURY	41.56960	-73.22590	11.0	62	PRWC	9/19/15	1
16440	Fawn Brook	100 ft. downstream from Rte. 66 intersection	HEBRON	41.64830	-72.39930	6.2	73	SRWP	11/14/15	4
16696	Goodhill Brook	Grassy Hill Road, DS from bridge crossing	WOODBURY	41.54080	-73.23420	1.9	63	PRWC	9/19/15	4
16699	GRAVELLY BROOK	Intersection of County rd. and Rte. 169	WOODSTOCK	41.98390	-71.99390	1.7	72	CAS	10/31/15	4
16995	Railroad Brook	Within Belding WMA, off Bread & Milk Road	VERNON	41.82772	-72.44828	2.9	61	VCC	10/17/15	1
17322	Fourmile River	Spring Rock Rd	EAST LYME	41.33900	-72.25920	5.4	61	ELCC	11/21/15	2
17324	Latimer Brook	100 m US of St Mathias Church, RT 161	EAST LYME	41.40730	-72.22170	11.6	61	NRWC	11/14/15	2
17333	Wood Creek	UP Arch Bridge Road	BETHLEHEM	41.62750	-73.22570	3.4	68	PRWC	9/19/15	9
17593	Wappoquia Brook	Downstream of Rte 169	POMFRET	41.87225	-71.96232	5.8	65	CAS	10/10/15	2
17703	Railroad Brook	500 ft. upstream of Valley Falls Pond	VERNON	41.81913	-72.44547	1.9	58	VCC	10/17/15	7
17765	Dickinson Creek	100ft downstream viaducts, airline trail	COLCHESTER	41.56313	-72.44951	14.8	64	SRWP	10/18/15	2
17923	Peckham Brook	100 Paine District Rd	WOODSTOCK	41.97708	-71.96292	1.2	69	CAS	10/24/15	3
17971	Railroad Brook	1/4 mile north of Tunnel parking area	BOLTON	41.79220	-72.45299	0.5	58	BCC	11/15/15	1
18413	Latimer Brook	100 yds. US Colony Road	EAST LYME	41.38397	-72.21429	16.2	54	NRWC	10/15/15	4
18433	Fawn Brook	150 ft. below confluence of east and west branches	MARLBOROUGH	41.62235	-72.40910	12.8	73	SRWP	10/15/15	2
18495	Latimer Brook	East of Flanders IGA Plaza, US of RT 1	EAST LYME	41.36726	-72.20808	17.2	54	NRWC	10/15/15	4
18499	Cranberry Meadow Brook	upper, off Walnut Hill Rd	EAST LYME	41.40869	-72.23103	2.2	65	ELCC	10/19/15	1
18518	Eightmile River	Devil's Hopyard Road, first parking lot on right from 2	EAST HADDAM	41.47300	-72.33900	13.8	79	TRCC	10/17/15	5
18729	Harris Brook	0.25 mile upstream Music Vale Rd	SALEM	41.49502	-72.26955	2.0	66	TRCC	10/31/15	3
18817	Hawley's Brook	Within Trout Brook Preserve, Paul Busch Trail, ~1km north of parking lot	EASTON	41.25111	-73.34250	0.5	100	FFLDU/ ZOO	10/10/15	2

Station #	Stream Name	Volunteer Location Description	Town	Latitude	Longitude	Upstream Area (mi2)	Predicted Water Quality Score (0-100)	Local RBV Program	Date	Most Wanted Count
18821	Baker Brook, tributary to	School Rd near Hebron Rd, downstream from two culverts	BOLTON	41.74794	-72.42410	0.6	59	BCC	11/15/15	0
18823	Tankerhoosen River, tributary to ("Tucker Brook")	100 ft. upstream of Tankerhoosen Confluence	VERNON	41.82364	-72.48720	1.5	46	VCC	10/17/15	1
18846	Fawn Brook	75 ft. above confluence with west branch	HEBRON	41.62790	-72.40813	6.4	73	SRWP	10/15/15	4
18871	Moodus River	upstream Gristmill Rd crossing	EAST HADDAM	41.50859	-72.44826	12.1	68	SRWP	9/19/15	3
18936	Eightmile River	Lyme Land Conservation Trust Pleasant Valley Preserve	LYME	41.41528	-72.33762	45.8	63	TRCC	10/17/15	2
18958	Walker Brook	Just downstream from intersection of Walker Brook Rd and Chapin Rd	WASHINGTON	41.61645	-73.35282	1.9	63	WMS	10/26/15	4
18961	Fraser Brook	Salem Community Park	SALEM	41.48108	-72.25275	0.3	78	TRCC	10/31/15	1
18962	East Branch Eightmile River	100m downstream of Darling Road culvert/bridge	SALEM	41.44221	-72.30620	19.9	65	TRCC	10/31/15	4
18963	Birch Mountain Brook	at Case Pond lot	MANCHESTER	41.76683	-72.48109	1.5	48	NRCA	10/12/15	2
18964	Birch Mountain Brook	at Spring Street	MANCHESTER	41.76130	-72.49036	1.7	47	NRCA	10/17/15	0
18965	Birch Mountain Brook	at Birch Mountain Rd pull off, upstream Blue Ridge Dr.	MANCHESTER	41.75563	-72.47113	0.4	48	NRCA	11/1/15	6
18966	Birch Mountain Brook	Downstream Blue Ridge Drive	MANCHESTER	41.75752	-72.47293	0.6	48	NRCA	11/22/15	2
18967	Byram River, Tributary to ("Sutton's Brook")	900ft Southeast of Audubon Lane cul-de-sac	GREENWICH	41.08603	-73.70111	0.1	53	GIWWA	11/20/15	4
18971	Converse Pond Brook	100m downstream of Lake Avenue	GREENWICH	41.10526	-73.65308	2.3	52	GIWWA	11/30/15	4
18979	Enders Brook	50m upstream Rte. 219, within Enders State Forest	GRANBY	41.95346	-72.88381	3.0	71	FRWA	10/6/15	7
18980	Roaring Brook	300m west of Roaring Brook Rd, within Roaring Brook Park	CHESHIRE	41.48306	-72.94417	0.7	56	QRWA	9/27/15	2
18981	Lyman Brook	400 ft. downstream of Glenwood Drive cul-de-sac	MARLBOROUGH	41.63271	-72.45228	0.6	57	SRWP	10/24/15	3
18982	Meadow Brook	200 ft. downstream Prospect Hill Rd crossing	COLCHESTER	41.58306	-72.37972	10.9	54	SRWP	9/28/15	4
18983	Pocotopaug Creek	downstream Rte. 16 crossing	EAST HAMPTON	41.56424	-72.50734	5.5	51	SRWP	10/10/15	3
18984	Wiley's Brook ("Christopher Brook")	47 Clark Hill Rd	EAST HAMPTON	41.59571	-72.52038	0.2	41	SRWP	11/13/15	2
18996	Beaver Brook	200 ft. upstream of Bass Rd	SCOTLAND	41.68417	-72.10924	7.7	74	TLGV	10/14/15	3
18998	English Neighborhood Brook	crosses Rte. 169	WOODSTOCK	41.99117	-71.99663	4.6	73	CAS	10/9/15	2
19000	Beaver Brook	500 ft. downstream of Bass Rd	SCOTLAND	41.68217	-72.10880	7.8	74	TLGV	10/4/15	1
19001	Bigelow Brook	DS of bridge at Boston Hollow Rd	ASHFORD	41.94347	-72.14836	15.7	62	CAS	9/18/15	2
19010	Branch Brook	Upstream Center turnpike within Yale Forest	EASTFORD	41.94825	-72.12365	2.1	93	CAS	10/2/15	2

Appendix C: 2015 RBV Monitoring Location Photographs

**Yellow stars indicate sites for which a 2015 voucher containing four or more 'most wanted' taxa was submitted to DEEP*



*Station 18821 – Unnamed tributary to Baker Brook
Monitored on 11/15/2015 by the Bolton Conservation
Commission.
Result – 0 Most Wanted types*



*Station 15312 – Beaver Brook
Monitored on 10/17/2015 by Three Rivers Community
College
Result – 4 Most Wanted types*



*Station 15138 – Bantam River
Monitored 11/09/2015 by WAMOGO High School
Result – 4 Most Wanted types*



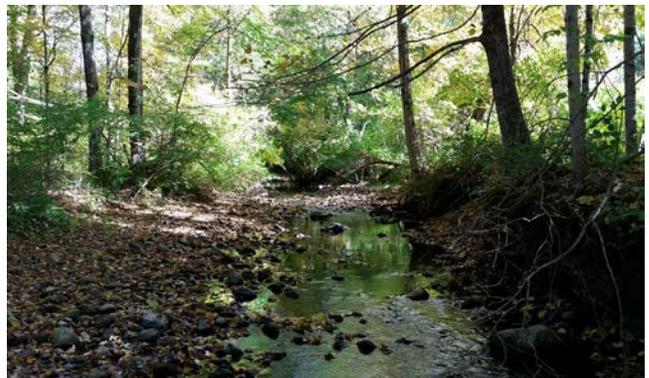
*Station 15594 - Barrows Brook
Monitored on 10/17/2015 by the Vernon Conservation
Commission
Result - 4 Most Wanted types*



*Station 19001 - Bigelow Brook
Monitored on 09/18/2015 by CT Audubon Society's
Citizen Science Program
Results - 2 Most Wanted types*



*Station 18996 - Beaver Brook
Monitored on 10/14/2015 by The Last Green Valley
Result - 3 Most Wanted types*



*Station 19000 - Beaver Brook
Monitored on 10/05/2015 by The Last Green Valley
and Trout Unlimited (Thames Valley Chapter)
Result - 1 Most Wanted taxa*



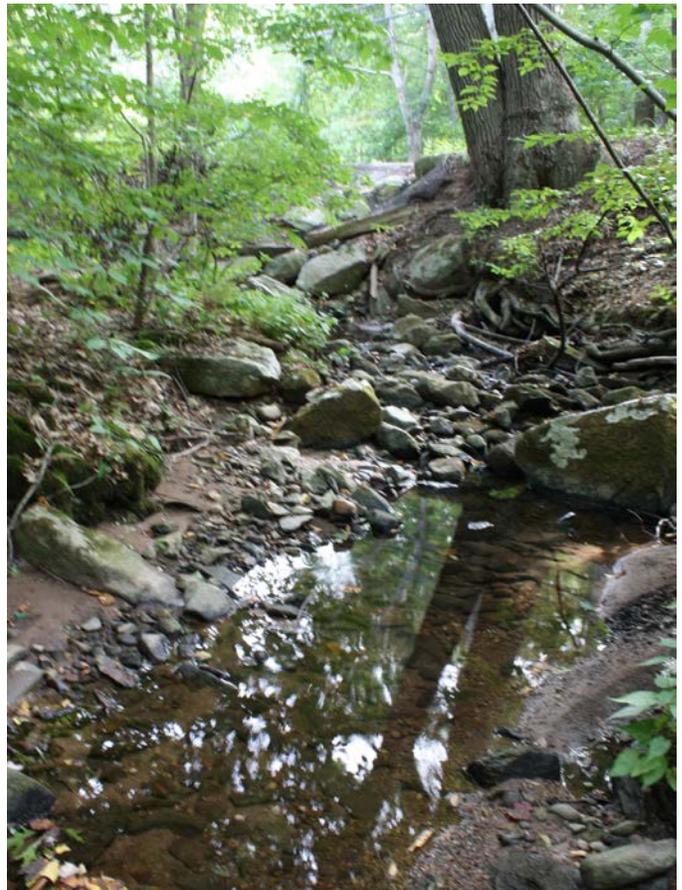
*Station 18963 - Birch Mountain Brook
Monitored on 10/12/2015 by Jen Lee
(UConn NRCA Program)
Result - 2 Most Wanted types*



*Station 15519 – Bee Brook
Monitored on 10/23/2015 by the Washington
Montessori School
Result – 3 Most Wanted types*



*Station 18965 – Birch Mountain Brook
Monitored on 11/01/2015 by Jen Lee
(UConn NRCA Program)
Result – 6 Most Wanted types*



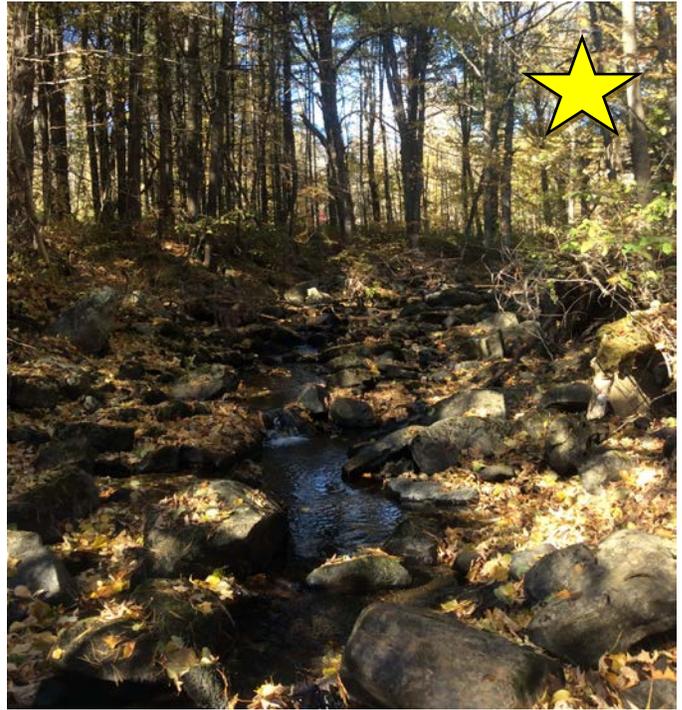
*Station 18966 – Birch Mountain Brook
Monitored on 11/22/2015 by Jen Lee
(UConn NRCA Program)
Result – 2 Most Wanted types*



*Station 18964 – Birch Mountain Brook
Monitored on 10/17/2015 by Jen Lee
(UConn NRCA Program)
Result – 0 Most Wanted types*



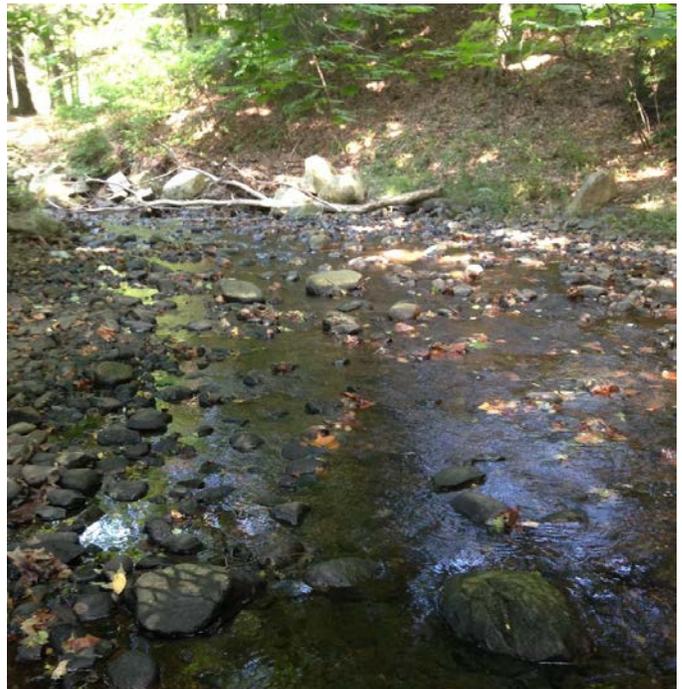
*Station 16266 - Bolton Pond
Monitored on 11/15/2015 by Bolton Conservation
Commission
Result - 2 Most Wanted types*



*Station 16139 - Brown Brook
Monitored on 10/19/2015 by the Housatonic Valley
Association
Result - 6 Most Wanted types*



*Station 19010 - Branch Brook
Monitored on 10/02/2015 by CT Audubon Society's
Citizen Science Program
Result - 2 Most Wanted types*



*Station 16333 - Bullet Hill Brook
Monitored on 09/21/2015 by the Pomperaug River
Watershed Coalition
Result - 3 Most Wanted types*



*Station 15315 – Burnham Brook
Monitored on 10/20/2015 by the Eightmile River Wild
& Scenic Coordinating Committee w/ The Nature
Conservancy
Result – 0 Most Wanted types*



*Station 18967 – "Sutton Brook"
Monitored on 11/20/2015 by the Greenwich IWWA
Result – 4 Most Wanted types*



*Station 14523 – Burton Brook
Monitored on 10/22/2015 by the Housatonic Valley
Association w/ Housatonic Valley
Regional High School
Result – 1 Most Wanted type*



*Station 16323 – Coginchaug River
Monitored on 10/15/2015 by CRCCD & Middletown HS
Result – 2 Most Wanted types*



*Station 18971 – Converse Pond Brook
Monitored on 11/30/2015 by the Greenwich IWWA
Result – 4 Most Wanted types*



*Station 18499 – Cranberry Meadow Brook
Monitored on 10/19/2015 by the East Lyme
Commission for the Conservation of Natural Resources
Result – 1 Most Wanted type*



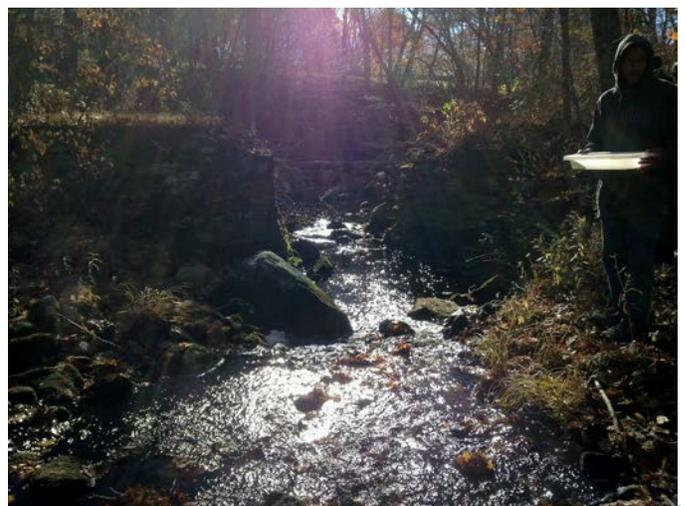
*Station 16119 – Day Pond Brook
Monitored on 11/21/2015 by the Salmon River
Watershed Partnership
Result – 3 Most Wanted types*



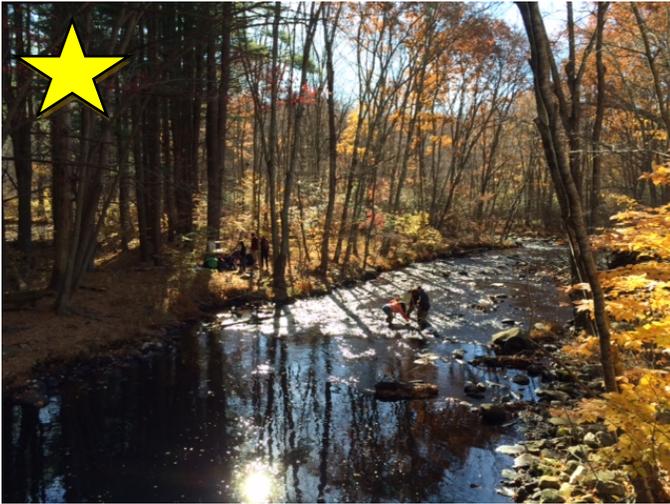
*Station 16324 – Dickinson Creek
Monitored on 09/12/2015 by the Salmon River
Watershed Partnership
Result – 4 Most Wanted types*



*Station 17765 – Dickinson Creek
Monitored on 10/18/2015 by the Salmon River
Watershed Partnership, the Colchester Land Trust &
the Colchester Girl Scouts
Result – 2 Most Wanted types*



*Station 16122 – Early Brook
Monitored on 10/31/2015 by Three Rivers CC
Result – 3 Most Wanted types*



*Station 18962 – East Branch Eightmile River
Monitored on 10/31/2015 by Three Rivers
Community College
Result – 4 Most Wanted types*



*Station 18979 –Enders Brook
Monitored on 10/06/2015 by the Farmington River
Watershed Association
Result – 7 Most Wanted types*



*Station 18518 –Eightmile River
Monitored on 10/17/2015 by Three Rivers
Community College
Result – 5 Most Wanted types*



*Station 18998 – English Neighborhood Brook
Monitored on 10/09/2015 by the CT Audubon Society
Citizen Science Program
Result – 2 Most Wanted types*



*Station 18936 –Eightmile River
Monitored on 10/17/2015 by Three Rivers
Community College
Result – 2 Most Wanted types*



*Station 16440 – Fawn Brook, East Branch
Monitored on 10/14/2015 by the Salmon River
Watershed Partnership
Result – 4 Most Wanted types*



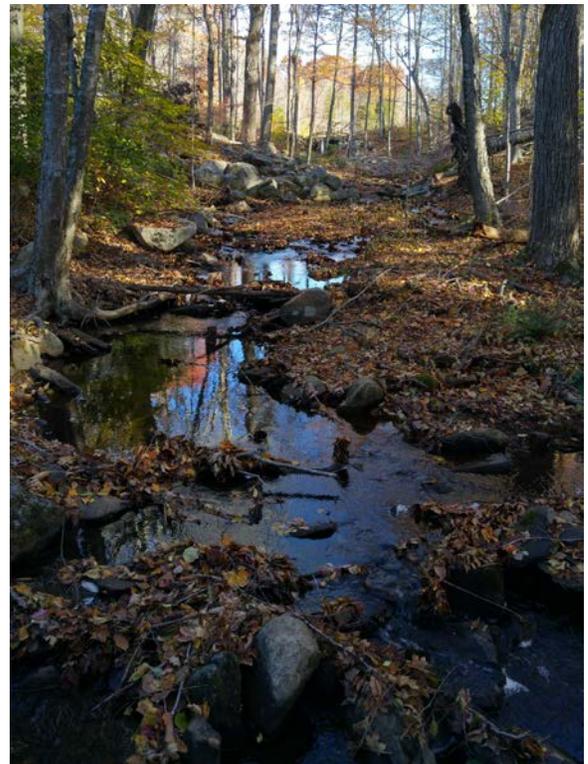
*Station 18433 – Fawn Brook
Monitored on 10/15/2015 by the Salmon River
Watershed Partnership w/ RHAM High School
Result – 2 Most Wanted types*



*Station 17322 – Fourmile River
Monitored on 11/21/2015 by the East Lyme
Commission for the Conservation of Natural Resources
Result – 2 Most Wanted types*



*Station 18846 – Fawn Brook, East Branch
Monitored on 10/15/2015 by the Salmon River
Watershed Partnership w/ RHAM High School
Result – 4 Most Wanted types*



*Station 18961 – Fraser Brook
Monitored on 10/31/2015 by Three Rivers
Community College
Result – 1 Most Wanted types*



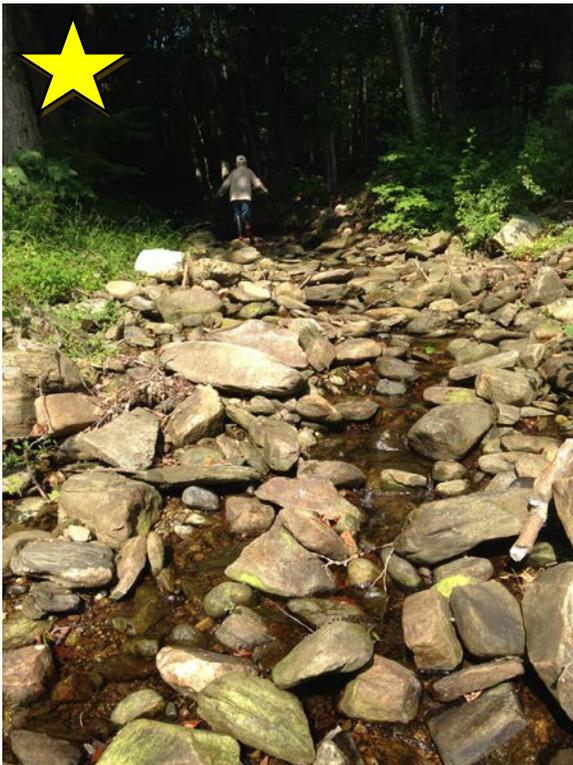
*Station 15888 – Fawn Brook, West Branch
Monitored on 10/15/2015 by the Salmon River
Watershed Partnership w/ RHAM High School
Result – 2 Most Wanted types*



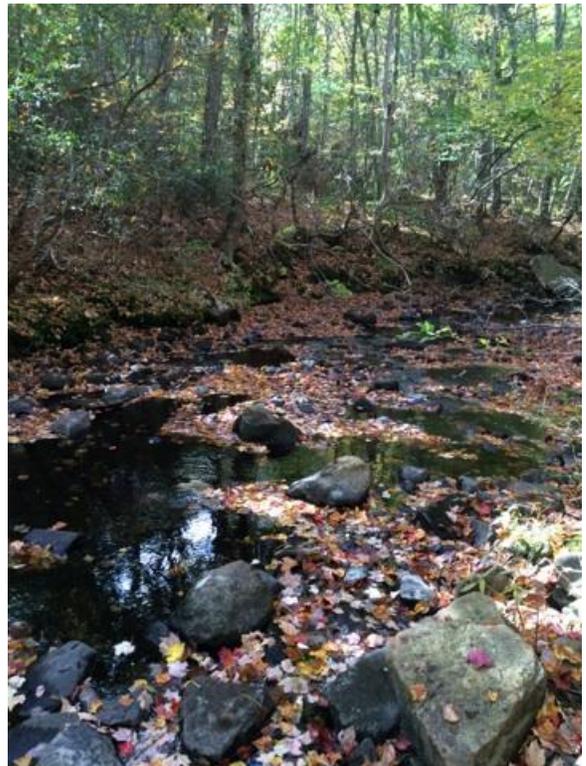
*Station 15592 – French Brook
Monitored on 11/15/2015 by the Bolton Conservation
Commission
Result – 1 Most Wanted type*



*Station 16699 – Gravelly Brook
Monitored on 10/31/2015 by the CT Audubon Society
Citizen Science Program
Result – 4 Most Wanted types*



*Station 16696 – Goodhill Brook
Monitored on 09/19/2015 by the Pomperaug River
Watershed Coalition
Result – 4 Most Wanted types*



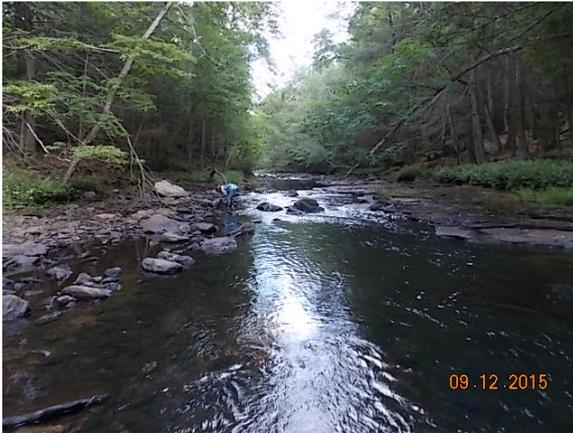
*Station 15313 – Harris Brook
Monitored on 10/17/2015 by Three Rivers
Community College
Result – 2 Most Wanted types*



*Station 18729 – Harris Brook
Monitored on 10/31/2015 by Three Rivers
Community College
Result – 3 Most Wanted types*



*Station 18413 – Latimer Brook
Monitored on 10/15/2015 by the Niantic River
Watershed Committee
Result – 4 Most Wanted types*



*Station 16167 – Jeremy River
Monitored on 09/12/2015 by the Salmon River
Watershed Partnership
Result – 2 Most Wanted types*



*Station 18495 – Latimer Brook
Monitored on 10/15/2015 by the Niantic River
Watershed Committee
Result – 4 Most Wanted types*



*Station 17324 – Latimer Brook
Monitored on 11/14/2015 by the Niantic River
Watershed Committee & East Lyme Cub Scout Pack 7
Result – 2 Most Wanted types*



*Station 16088 – Lebanon Brook
Monitored on 09/11/2015 by the CT Audubon Society
Citizen Science Program
Result – 1 Most Wanted type*



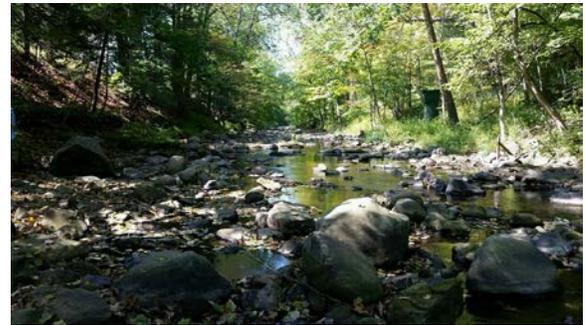
*Station 18981 – Lyman Brook
Monitored on 10/24/2015 by the Salmon River
Watershed Partnership
Result – 3 Most Wanted types*



*Station 18871 – Moodus River
Monitored on 09/19/2015 by the Salmon River
Watershed Partnership
Result – 3 Most Wanted types*



*Station 18982 – Meadow Brook
Monitored on 09/28/2015 by the Salmon River
Watershed Partnership
Result – 4 Most Wanted types*



*Station 16335 – Nonewaugh River
Monitored on 09/19/2015 by the Pomperaug River
Watershed Coalition
Result – 2 Most Wanted types*



*Station 15211 – Merrick Brook
Monitored on 11/02/2015 by The Last Green Valley
Result – 3 Most Wanted types*



*Station 17923 – Peckham Brook
Monitored on 10/24/2015 by the CT Audubon Society
Citizen Science Program
Result – 3 Most Wanted types*



*Station 18983 – Pocotopaug Creek
Monitored on 10/10/2015 by the Salmon River
Watershed Partnership
Result – 3 Most Wanted types*



*Station 17971 – Railroad Brook
Monitored on 11/15/2015 by the Vernon
Conservation Commission
Result – 1 Most Wanted type*



*Station 16995 – Railroad Brook
Monitored on 10/17/2015 by the Vernon
Conservation Commission
Result – 1 Most Wanted type*



*Station 18980 – Roaring Brook
Monitored on 09/27/2015 by the Quinnipiac River
Watershed Association
Result – 2 Most Wanted types*



*Station 17703 – Railroad Brook
Monitored on 10/17/2015 by the Vernon
Conservation Commission
Result – 7 Most Wanted types*



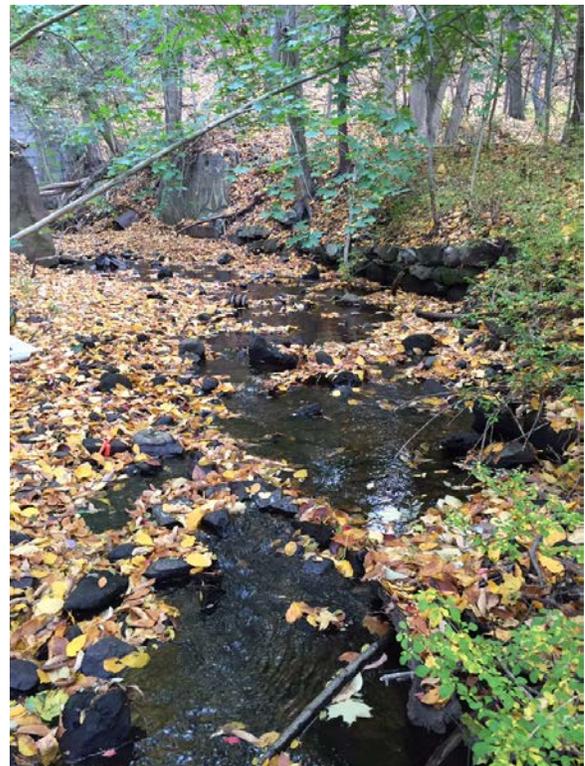
*Station 14440 – Salmon River
Monitored on 09/12/2015 by the Salmon River
Watershed Partnership w/ the CT River Coastal
Conservation District & Middletown High School
Result – 3 Most Wanted types*



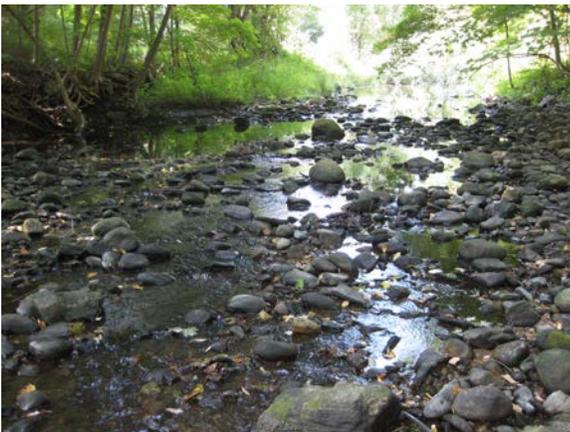
*Station 15713 – Still River
Monitored on 09/25/2015 by the CT Audubon Society
Citizen Science Program
Result – 2 Most Wanted types*



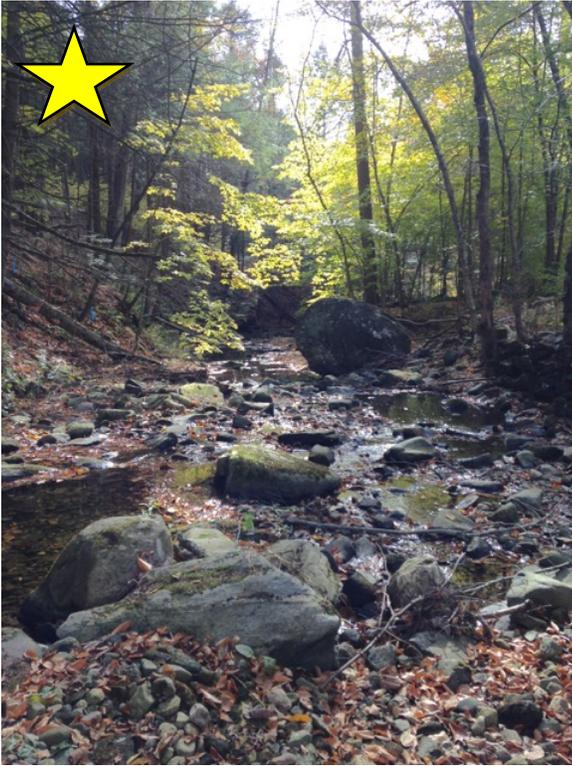
*Station 15007 – Sawmill Brook
Monitored on 10/23/2015 by The Last Green Valley
Water Quality Monitoring Program
Result – 3 Most Wanted types*



*Station 18823 – “Tucker Brook” (Unnamed tributary to
the Tankerhoosen River)
Monitored on 10/17/2015 by the Vernon
Conservation Commission
Result – 1 Most Wanted type*



*Station 16431 – Sprain Brook
Monitored on 09/19/2015 by the Pomperaug River
Watershed Coalition
Result – 1 Most Wanted type*



*Station 18958 – Walker Brook
Monitored on 10/26/2015 by the Washington
Montessori School
Result – 4 Most Wanted types*



Station 18984 – Willeys Brook
(*Also referred to locally as “Christopher Brook”)
Monitored on 11/13/2015 by the Salmon River
Watershed Partnership w/ the East Hampton HS
Environmental Club
Result – 2 Most Wanted types*



*Station 17593 – Wappoquia Brook
Monitored on 10/10/2015 by the CT Audubon Society
Citizen Science Program
Result – 2 Most Wanted types*



*Station 17333 – Wood Creek
Monitored on 09/19/2015 by the Pomperaug River
Watershed Coalition
Result – 9 Most Wanted types*

Appendix D: 2015 RBV 'Most Wanted' Types Occurrence Maps

