

Appendix A: Vermont Water Quality Priorities and Projects by Watershed

Appendix A fulfills the reporting requirement of Act 64 (2015)¹, Section 36, 10 V.S.A. § 1386, and includes:

- A. A summary of the Tactical Basin Planning process that prioritizes projects for implementation;
- B. A summary of water quality problems or concerns in each major basin of the state; and
- C. A summary of projects funded and completed in each Tactical Basin Planning watershed.

Summaries for each of the fifteen Tactical Basin Planning watersheds, organized alphabetically by watershed name, present:

- 1. Total dollars awarded to projects by sector in SFY 2017;
- 2. Summary of project results completed by sector in SFY 2017; and
- 3. Table of projects that were awarded funds in SFY 2017.

Agency, sector, and funding source are abbreviated in the project tables as follows:

Agencies

AAFM	Agency of Agriculture, Food and Markets
ANR	Agency of Natural Resources
VTrans	Agency of Transportation
VHCB	Vermont Housing and Conservation Board

Sector

Ag	Agricultural pollution prevention
All	All sectors
CSO	Combined sewer overflow
NR	Natural resources
Roads	Transportation/road-related stormwater
SW	Stormwater
WW	Wastewater treatment

Funding Source

Capital	Vermont Capital Fund
CWF	Vermont Clean Water Fund
CWSRF	Clean Water State Revolving Fund
FTF	Federal Transportation Fund
VTF	Vermont Transportation Fund
Other	May include: Act 250 Mitigation Fund, General Fund, Housing and Conservation Trust Fund, U.S. Department of Agriculture Natural Resources Conservation Service Agricultural Conservation Easement Program Agricultural Land Easements, Watershed Grant Fund

¹ Act 64 or the "Vermont Clean Water Act;" 2015 Vt. Acts & Resolves 975, amended in 2017.

Vermont Tactical Basin Planning:

The science-based framework to assess, plan and implement priority clean water projects

Given the significant costs of restoring and safeguarding water quality, the state must spend its resources efficiently and effectively. State agencies utilize Tactical Basin Plans, where possible, to identify projects that will provide the greatest return on investment for clean water.

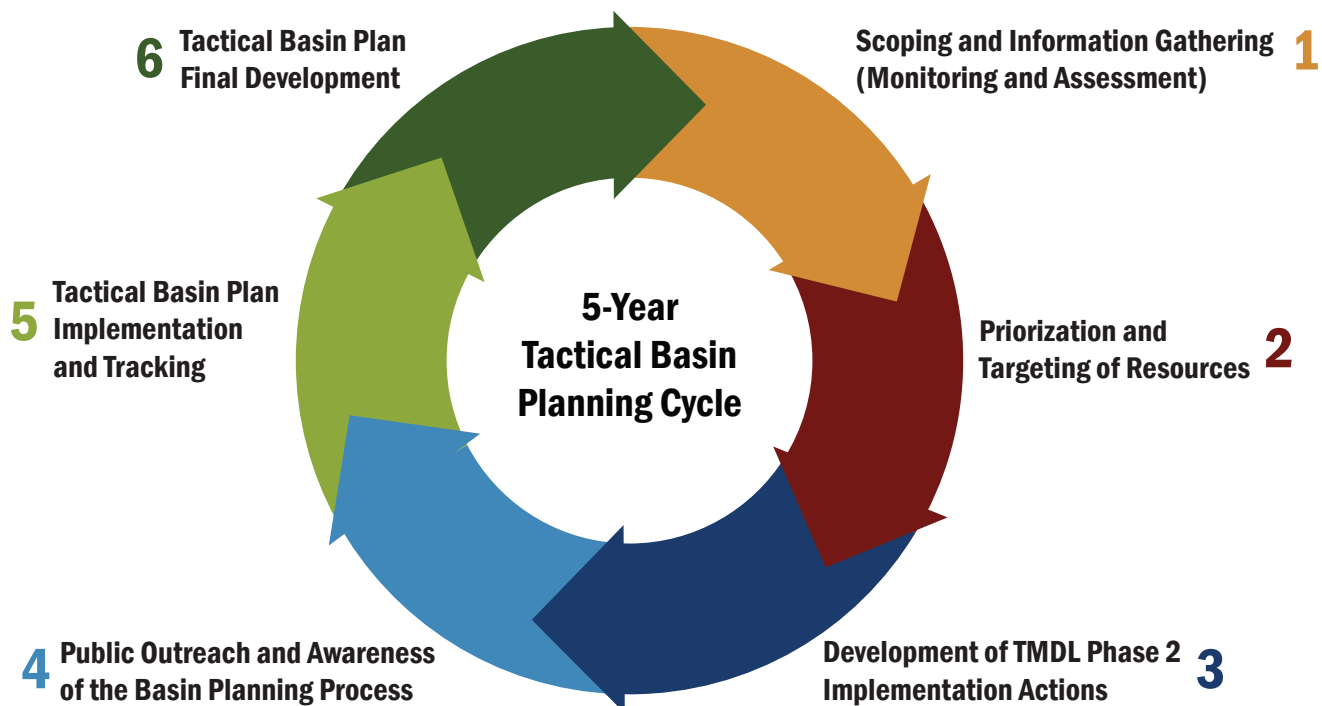
Tactical Basin Plans identify and prioritize clean water projects across multiple sectors, including stormwater, rivers, roads, and wastewater treatment, based on scientific monitoring data and assessment results. The prioritized lists of projects necessary to achieve clean water goals, found in each Tactical Basin Plan, are complemented by an online Watershed Projects Database, which is continuously updated (visit: anrweb.vt.gov/DEC/IWIS/ARK/ProjectSearch.aspx).

Tactical Basin Planning is integral to identifying priority projects to achieve clean water targets described in clean water restoration plans, known as Total Maximum Daily Loads (TMDLs), the Vermont Clean Water Act, and the 2016 Combined Sewer Overflow (CSO) Rule.

Community and stakeholder engagement is a key component of Tactical Basin Plan development and implementation. Local partners, including municipalities, natural resources conservation districts, regional planning commissions, and watershed organizations, also utilize Tactical Basin Plans to target their clean water activities/projects.

Clean water projects are prioritized in Tactical Basin Plans using the following criteria:

1. Expected environmental benefit and cost effectiveness based on:
 - a. Nutrient and sediment pollution reduction;
 - b. Improved flood resiliency; and
 - c. Improved habitat function.
2. Expected feasibility based on:
 - a. Partner capacity and local support; and
 - b. Funding availability.



LAKE CHAMPLAIN BASIN

Watersheds:

Northern Lake Champlain
Missisquoi Bay
Winooski River
South Lake Champlain, Poultney, Mettewee Rivers
Otter Creek
Lamoille River

Priority Water Quality

Concerns:

Nutrients/Sediment
Bacteria (*E. coli*)
Invasive Species

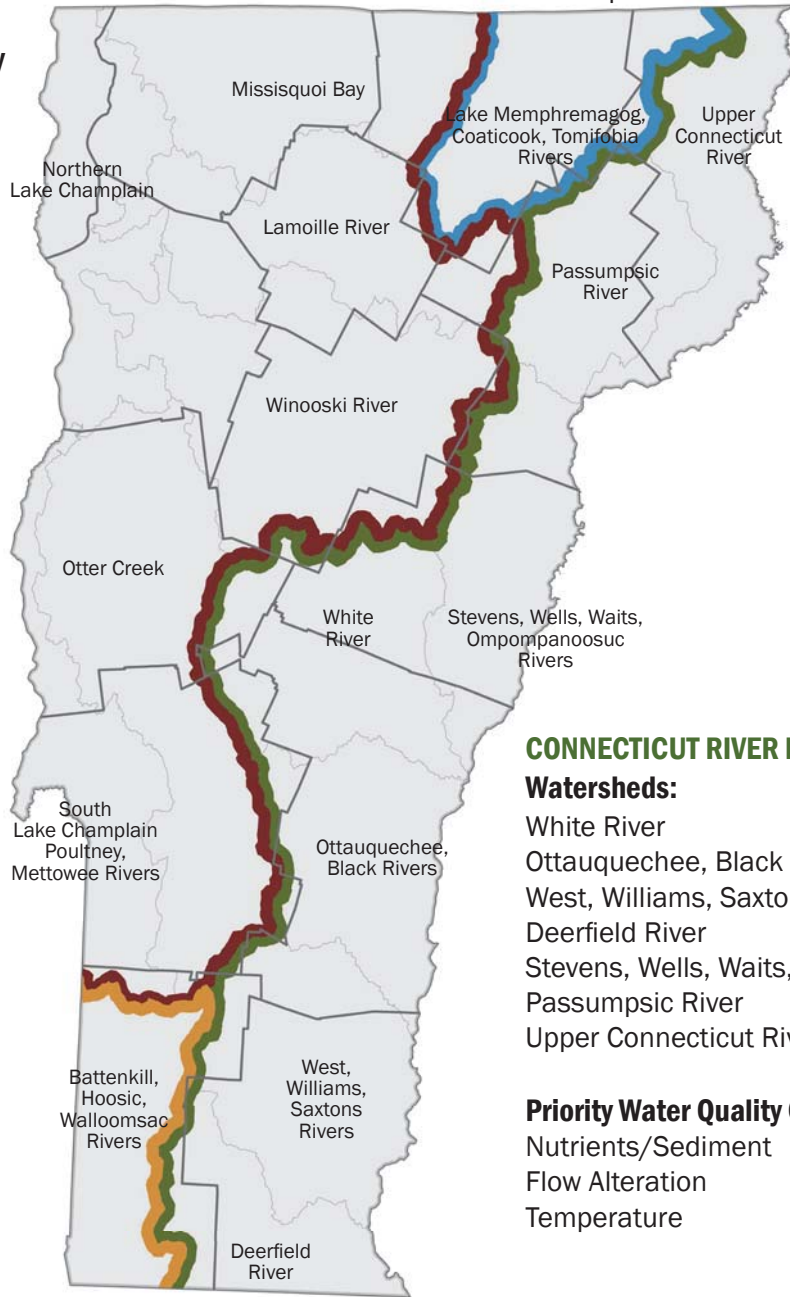
LAKE MEMPHREMAGOG BASIN

Watersheds:

Lake Memphremagog, Coaticook, Tomifobia Rivers

Priority Water Quality Concerns:

Nutrients/Sediment
Flow Alteration
Invasive Species



HUDSON RIVER BASIN

Watersheds:

Battenkill, Hoosic,
Walloomsac Rivers

Priority Water Quality

Concerns:

Nutrients/Sediment
Habitat
Temperature

CONNECTICUT RIVER BASIN

Watersheds:

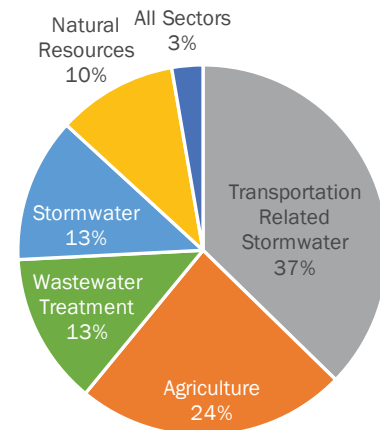
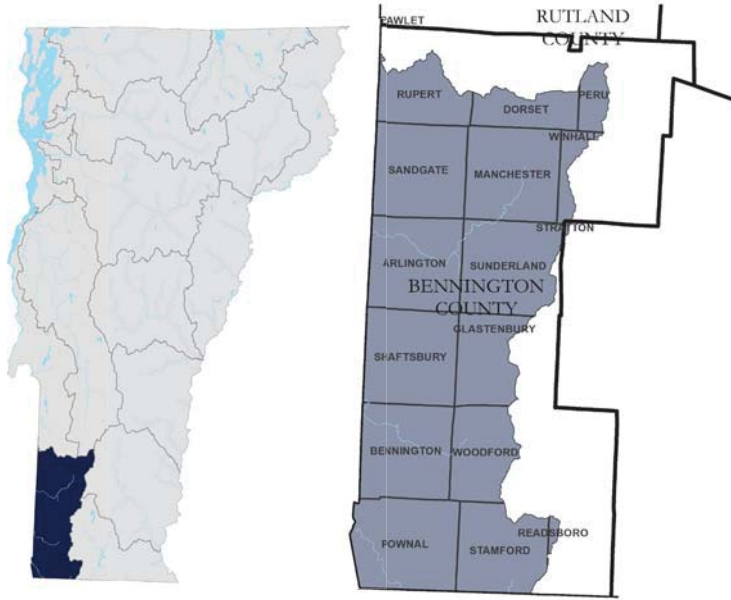
White River
Ottauquechee, Black Rivers
West, Williams, Saxtons, Connecticut Rivers
Deerfield River
Stevens, Wells, Waits, Ompompanoosuc Rivers
Passumpsic River
Upper Connecticut River

Priority Water Quality Concerns:

Nutrients/Sediment
Flow Alteration
Temperature

For more information on Tactical Basin Planning, visit: dec.vermont.gov/watersheds/map/basin-planning.
For more information on priority water quality concerns, visit: dec.vermont.gov/watersheds/map/strategy.

Battenkill, Walloomsac, Hoosic (Hudson) Rivers Watershed Summary



State funding awarded in the Hudson River watershed in SFY 2017, by sector
Total: \$331,243

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Hudson River watershed.

AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	NA
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	NA
Acres of water quality protections within conserved agricultural lands	3

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	NA
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	NA
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	0.2
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	5
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	No data

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

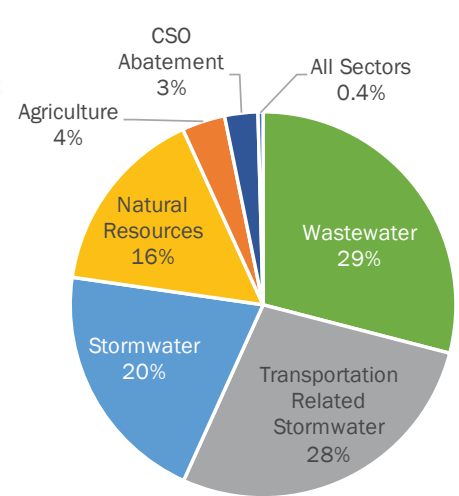
Battenkill, Walloomsac, Hoosic (Hudson) Rivers Watershed Projects

Clean water projects funded by state agencies in SFY 2017 in the Hudson River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Arlington	VTrans	Arlington	TH 49 Berwal Road – Correction of Stream Bank Erosion and Culvert Upgrade	Roads	VTF	\$11,240
Bennington	ANR	Bennington	Bennington Wastewater Treatment Facility Refurbishment – Preliminary Design	WW	CWSRF	\$32,400
Bennington	ANR	Bennington County Conservation District	Bennington Bedding Mulcher Equipment	SW	CWF	\$5,107
Bennington	VTrans	North Bennington	Municipal Road Erosion Inventory	Roads	CWF	\$4,000
Bennington County	AAF	Bennington County Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
Manchester	ANR	Manchester	Manchester Wastewater Treatment Asset Management Program Implementation	WW	CWF	\$11,448
Manchester	VTrans	Manchester	TH 11 Three Maple Drive – Municipal Roads Culvert Upgrade	Roads	CWF	\$5,536
Manchester	VTrans	Manchester	Municipal Culvert and Road Erosion Inventory	Roads	CWF	\$8,000
Pownal	ANR	Bennington County Regional Commission	Tubbs Brook Culvert Replacement	NR	Other	\$10,000
Pownal	VTrans	Pownal	Municipal Culvert Inventory	Roads	FTF	\$8,000
Rupert	ANR	Bennington County Conservation District	Mill Brook Gully Stabilization – Implementation	NR	CWF	\$18,600
Rupert	VTrans	Rupert	TH 23 Youlin Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$18,960
Rupert	VTrans	Rupert	Municipal Culvert and Road Erosion Inventory	Roads	FTF	\$7,680
Sandgate	ANR	Bennington County Regional Commission	Sandgate Stormwater Master Plan – Project Identification	SW	CWF	\$24,000
Sandgate	VTrans	Sandgate	TH 18 Southeast Corner – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$8,800
Sandgate	VTrans	Sandgate	TH 4 Rupert Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$30,688
Sunderland	VTrans	Sunderland	Municipal Culvert and Road Erosion Inventory	Roads	FTF	\$8,000

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

Black, Ottauquechee Rivers Watershed Summary



State funding awarded in the Black, Ottauquechee Rivers watershed in SFY 2017, by sector
Total: \$2,119,513

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Black, Ottauquechee Rivers watershed.



AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	NA
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	NA
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	NA
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	1
Acres of river corridor conserved through easements	NA
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	1,560
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	58

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	No data

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	2
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	4
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	No data

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

Black, Ottauquechee Rivers Watershed Projects

Clean water projects funded by state agencies in SFY 2017 in the Black, Ottauquechee Rivers watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Baltimore	VTrans	Baltimore	TH 1 Baltimore Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$13,243
Baltimore	VTrans	Baltimore	TH 1 Baltimore & Harris Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$17,894
Bridgewater	VTrans	Bridgewater	Municipal Road Erosion Inventory	Roads	FTF	\$5,078
Cavendish	ANR	Cavendish	Cavendish Wastewater Treatment Facility Refurbishment – Preliminary Design	WW	CWSRF	\$9,750
Cavendish	VTrans	Cavendish	Municipal Culvert and Road Erosion Inventory	Roads	FTF	\$6,910
Chester	VTrans	Chester	TH 11/13 Miner/Pleines Road – Municipal Roads Erosion Control	Roads	VTF	\$15,970
Chester	VTrans	Chester	TH 9/14 Smokeshire/Murdoch Road – Municipal Roads Erosion Control and Correction of Streambank and Slope Erosion	Roads	VTF	\$20,000
Hartford	ANR	Hartford	Hartford Wastewater Collection System Refurbishment and Stormwater Treatment – Preliminary Design	WW, SW	CWSRF	\$242,000
Hartford	ANR	Hartford	Hartford Wastewater Collection System Refurbishment and Stormwater Treatment – Preliminary Design	WW, SW	CWSRF	\$300,000
Ludlow	ANR	Ludlow	Ludlow Wastewater Treatment Asset Management Program Implementation	WW	CFW	\$55,700
Ludlow	VTrans	Ludlow	TH 55 Trailside Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$40,000
Pomfret	VTrans	Pomfret	TH 51 River Road – Municipal Roads Culvert Upgrade	Roads	CFW	\$5,488
Reading	VTrans	Reading	TH 8 Town Hill Road – Municipal Roads Erosion Control	Roads	CFW	\$20,000
Springfield	ANR	Ottawaquechee Natural Resources Conservation District	Black River/Springfield Transfer Station Stormwater Treatment – Final Design	SW	Capital	\$30,230
Springfield	ANR	Springfield	Springfield Vector Truck Equipment	Roads	CFW	\$375,000
Springfield	ANR	Springfield	Springfield Wastewater Treatment Asset Management Program Implementation	WW	CFW	\$34,600
Springfield	ANR	Springfield	Springfield Wastewater Collection System, Combined Sewer Overflow Abatement, and Stormwater Treatment – Construction	WW, SW, CSO	CWSRF	\$177,100
Watershed-wide	ANR	Stone Environmental	Ottawaquechee-Black Rivers Illicit/Unauthorized Discharge Detection and Elimination	SW	CFW	\$69,940
West Windsor	ANR	Southern Windsor County Regional Planning Commission	Mill Brook Dam Removal at West Windsor Firehouse – Implementation	NR	CFW	\$19,040
West Windsor	ANR	Southern Windsor County Regional Planning Commission	West Windsor Dam Removal	NR	Other	\$10,000

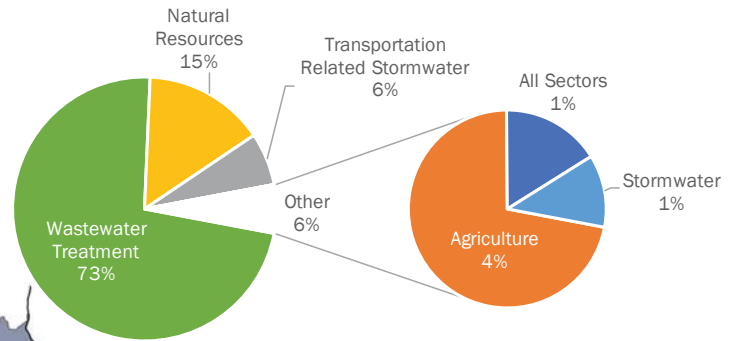
Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

Black, Ottauquechee Rivers Watershed Projects

Clean water projects funded by state agencies in SFY 2017 in the Black, Ottauquechee Rivers watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
West Windsor	ANR	West Windsor	West Windsor Wastewater Collection System Expansion – Construction	WW	Capital	\$185,414
West Windsor	VTrans	West Windsor	TH 40 Coaching Lane – Municipal Roads Erosion Control	Roads	CWF	\$19,349
Windsor	VHCB	Trust for Public Land	Ascutney Mountain - West Windsor Town Forest with Riparian Buffers	NR	Capital	\$300,000
Windsor	VTrans	Windsor	TH 6 Brook Road – Correction of Slope Erosion	Roads	CWF	\$24,010
Woodstock	ANR	Vermont Department of Forests, Parks and Recreation	Curtis Hollow Brook/Coolidge State Forest Road Stream Culvert Removal – Implementation	Roads	CWF	\$4,060
Woodstock	VTrans	Woodstock	TH 75 Happy Valley Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$8,000

Deerfield River Watershed Summary



State funding awarded in the Deerfield River watershed in SFY 2017, by sector
Total: \$1,798,406

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Deerfield River watershed.

AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	NA
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	NA
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	NA
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	NA
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	0.1
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	2
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	No data

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

Deerfield River Watershed Projects

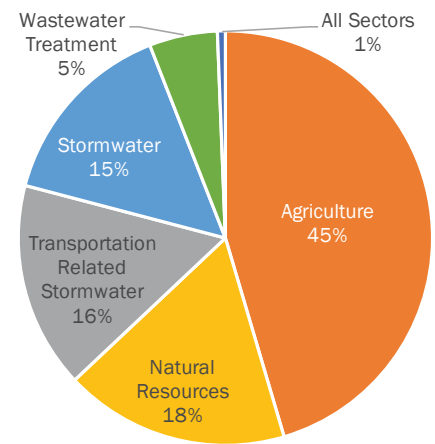
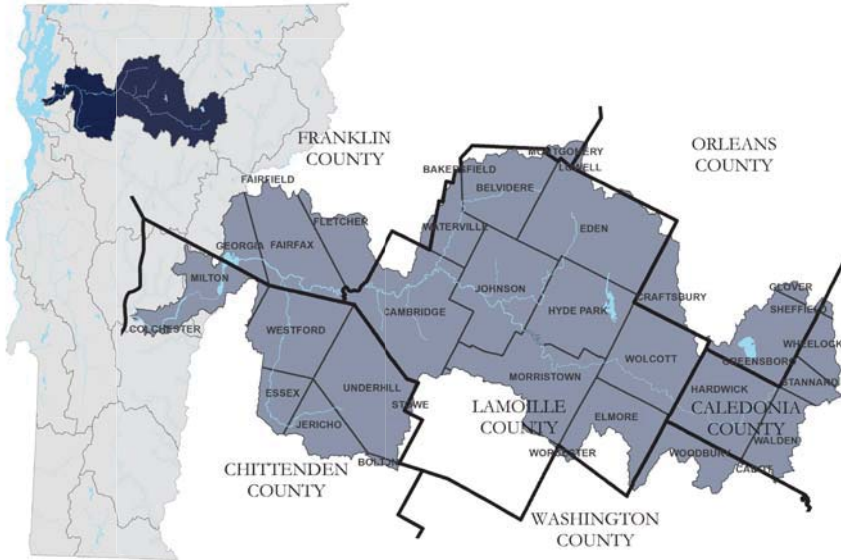


Clean water projects funded by state agencies in SFY 2017 in the Deerfield River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Brattleboro	ANR	Brattleboro	Brattleboro Wastewater Sludge and Septage Improvements – Construction	WW	Capital	\$1,114,153
Brattleboro	ANR	Connecticut River Conservancy	Partner Water Quality Monitoring Pre-and-Post Project Implementation – Whetstone Brook	All	CWF	\$8,290
Brattleboro	ANR	Vermont River Conservancy	Whetstone Brook Floodplain Restoration and River Corridor Easement – Implementation	NR	CWF	\$84,400
Brattleboro	VHCB	Vermont River Conservancy	Whetstone Brook River Corridor Easement	NR	Capital, Other	\$135,000
Guilford	ANR	Connecticut River Conservancy	Green River Corridor Easement/Floodplain Restoration – Final Design	NR	Capital	\$8,140
Guilford	ANR	Vermont River Conservancy	Green River Corridor Easement Design	NR	CWF	\$2,000
Guilford	ANR	Windham Regional Commission	Green River Corridor Easement, Floodplain Berm Removal, and Buffer Restoration – Implementation	NR	Capital	\$32,000
Guilford	VTrans	Guilford	TH 6 Sweet Pond Road – Municipal Roads Erosion Control	Roads	VTF	\$20,000
Guilford	VTrans	Guilford	TH 1 Stage Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$40,000
Halifax	VTrans	Halifax	Municipal Road Erosion Inventory	Roads	FTF	\$7,600
Putney	ANR	Putney	Putney Wastewater Treatment Asset Management Program Implementation	WW	CWF	\$13,628
Somerset	VTrans	Somerset	TH 1 Somerset Road – Municipal Roads Culvert Upgrade	Roads	CWF	\$13,801
Whitingham	ANR	Whitingham	Whitingham Wastewater Treatment Asset Management Program Implementation	WW	CWF	\$20,000
Wilmington	ANR	Wilmington	Wilmington Wastewater Treatment Asset Management Program Implementation	WW	CWF	\$19,925
Wilmington	VTrans	Wilmington	TH 78 Sturgis Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$14,536
Windsor	VTrans	Windsor	Municipal Culvert and Road Erosion Inventory	Roads	FTF	\$7,815

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

Lamoille River Watershed Summary



State funding awarded in the Lamoille River watershed in SFY 2017, by sector
Total: \$1,589,446

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Lamoille River watershed.

AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	87
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	14
Number of barnyard/production area practices installed	29
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	21
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	9

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	35
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	179
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	15

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	0.4
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	2
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	2

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	4

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	4

Lamoille River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Lamoille River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Belvidere	AAFM	The Green Mountain Maple Sugar	Waste Treatment	Ag	Capital	\$20,000
Cambridge	AAFM	Gillilan, Kenneth	Heavy Use Area Protection	Ag	Capital	\$25,000
Cambridge	AAFM	Gillilan, Kenneth	Waste Storage Structure	Ag	Capital	\$50,000
Cambridge	ANR	Jeffersonville	Jeffersonville Wastewater Treatment Facility Refurbishment – Preliminary Design	WW	CWSRF	\$24,800
Cambridge	ANR	Lamoille County Conservation District	Town of Cambridge/Brewster River Floodplain Restoration – Preliminary Design	NR	CWF	\$21,250
Cambridge	ANR	Vermont Land Trust	North Branch Lamoille River Corridor Easement (Barup Farm) – Implementation	NR	CWF	\$46,494
Cambridge	VHCB	Vermont Land Trust	H & C Barup Farm Agricultural Easement with Riparian Buffers	Ag	Capital, Other	\$282,000
Cambridge	VTrans	Cambridge	TH 25 Junction Hill Road – Municipal Roads Culvert Upgrade	Roads	VTTF	\$40,000
Cambridge, Underhill	ANR	Lamoille County Planning Commission	Seymour River Stream Geomorphic Assessment/River Corridor Plan – Project Identification	NR	CWF	\$34,713
Craftsbury	VTrans	Craftsbury	TH 6 Collinsville Road – Correction of Stream Bank Erosion	Roads	VTTF	\$9,600
Elmore	VTrans	Elmore	TH 7 Beach Road – Municipal Roads Erosion Control	Roads	CWF	\$10,684
Fletcher	VTrans	Fletcher	Municipal Culvert and Road Erosion Inventory	Roads	VTTF	\$8,000
Fletcher	VTrans	Fletcher	TH 33 River Road – Municipal Roads Erosion Control	Roads	VTTF	\$20,000
Georgia	ANR	Friends of Northern Lake Champlain	Deer Brook/Route 7 and Route 104A, Georgia Gully Remediation – Preliminary Design	SW	CWF	\$86,700
Georgia	VHCB	Vermont Land Trust	Georgia Town Forest with Wetland/Riparian Protection	NR	Capital	\$132,500
Hardwick	AAFM	Lady Bug Farm Partnership	Underground Outlet	Ag	Capital	\$76
Hardwick	AAFM	Lady Bug Farm Partnership	Mulching	Ag	Capital	\$151
Hardwick	AAFM	Lady Bug Farm Partnership	Critical Area Planting	Ag	Capital	\$166
Hardwick	AAFM	Lady Bug Farm Partnership	Roof Runoff Management	Ag	Capital	\$231
Hardwick	AAFM	Lady Bug Farm Partnership	Underground Outlet	Ag	Capital	\$253
Hardwick	AAFM	Lady Bug Farm Partnership	Access Road	Ag	Capital	\$282
Hardwick	AAFM	Lady Bug Farm Partnership	Underground Outlet	Ag	Capital	\$342
Hardwick	AAFM	Lady Bug Farm Partnership	Fencing	Ag	Capital	\$371
Hardwick	AAFM	Lady Bug Farm Partnership	Roof Runoff Management	Ag	Capital	\$416

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

Lamoille River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Lamoille River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Hardwick	AAFM	Lady Bug Farm Partnership	Heavy Use Area Protection	Ag	Capital	\$712
Hardwick	AAFM	Lady Bug Farm Partnership	Waste Transfer	Ag	Capital	\$714
Hardwick	AAFM	Lady Bug Farm Partnership	Underground Outlet	Ag	Capital	\$812
Hardwick	AAFM	Lady Bug Farm Partnership	Waste Transfer	Ag	Capital	\$1,031
Hardwick	AAFM	Lady Bug Farm Partnership	Pumping Plant	Ag	Capital	\$1,148
Hardwick	AAFM	Lady Bug Farm Partnership	Subsurface Drain	Ag	Capital	\$1,346
Hardwick	AAFM	Lady Bug Farm Partnership	Fencing	Ag	Capital	\$1,630
Hardwick	AAFM	Lady Bug Farm Partnership	Access Road	Ag	Capital	\$2,068
Hardwick	AAFM	Lady Bug Farm Partnership	Access Road	Ag	Capital	\$2,583
Hardwick	AAFM	Lady Bug Farm Partnership	Heavy Use Area Protection	Ag	Capital	\$3,890
Hardwick	AAFM	Lady Bug Farm Partnership	Waste Transfer	Ag	Capital	\$5,301
Hardwick	AAFM	Lady Bug Farm Partnership	Waste Storage Structure	Ag	Capital	\$9,583
Hardwick	AAFM	Lady Bug Farm Partnership	Heavy Use Area Protection	Ag	Capital	\$9,963
Hardwick	AAFM	Lady Bug Farm Partnership	Waste Storage Structure	Ag	Capital	\$12,259
Hardwick	AAFM	Lady Bug Farm Partnership	Waste Storage Structure	Ag	Capital	\$19,674
Hardwick	VTrans	Hardwick	Municipal Culvert and Road Erosion Inventory	Roads	FTF	\$7,861
Hyde Park	ANR	Hyde Park	Hyde Park Wastewater Treatment Facility and Collection System Refurbishment/Expansion – Preliminary Design	WW	CWSRF	\$42,700
Hyde Park	VTrans	Hyde Park	Municipal Road Erosion Inventory	Roads	FTF	\$7,680
Hyde Park	VTrans	Hyde Park	TH 17 Bornemann Road – Municipal Roads Erosion Control	Roads	VTTF	\$20,000
Hyde Park, Morristown	ANR	Lamoille County Conservation District	Hyde Park and Morristown Stormwater Master Plan – Project Identification	SW	CWF	\$30,000
Jericho	VTrans	Chittenden County Regional Planning Commission	Municipal Road Erosion Inventory	Roads	CWF	\$4,000
Johnson	AAFM	Rankin, Warren	Forested Riparian Buffer Restoration	Ag	Capital	\$539
Johnson	AAFM	Rankin, Warren	Forested Riparian Buffer Restoration	Ag	Capital	\$2,153

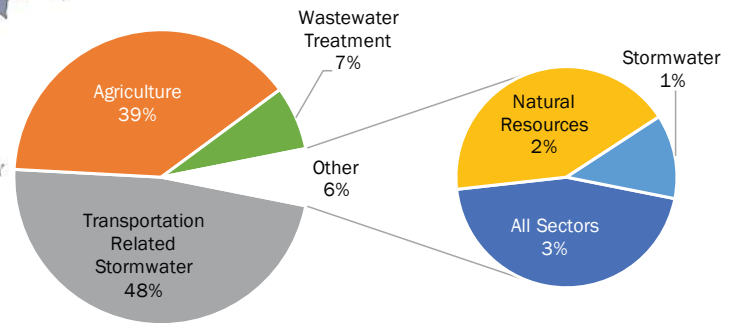
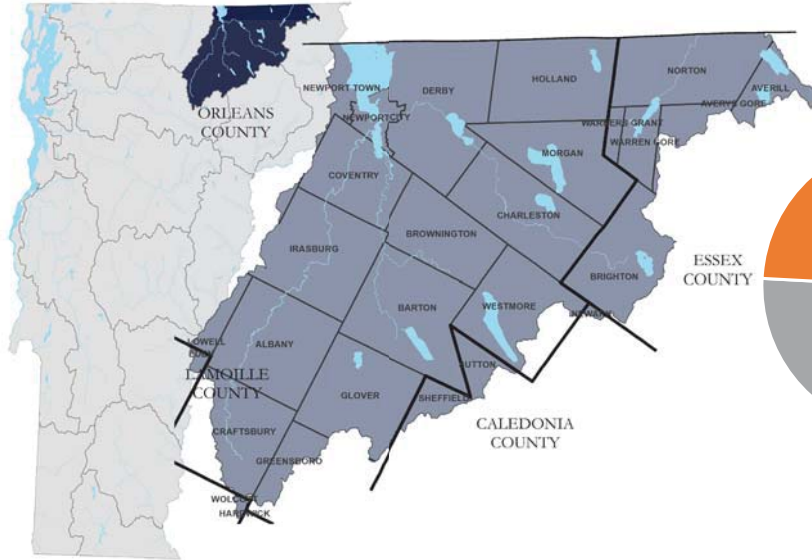
Lamoille River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Lamoille River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Johnson	ANR	Lamoille County Planning Commission	Gihon River Tributary/Johnson State College Stormwater Treatment – Implementation	SW	Capital	\$84,500
Johnson	VTrans	Johnson	TH 25/26 Tree Farm/Ober Hill Road – Municipal Roads Erosion Control	Roads	CWF	\$4,380
Johnson	VTrans	Johnson	Th 10 Foote Brook Road – Correction of Stream Bank Erosion and Road Erosion Control	Roads	CWF	\$15,937
Johnson	VTrans	Johnson	TH 1 Plot Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$17,874
Morristown	AAFM	Greaves Farms Corp.	Cover Crop	Ag	General	\$2,580
Underhill	ANR	Chittenden County Regional Planning Commission	Underhill Stormwater Master Plan – Project Identification	SW	CWF	\$16,105
Underhill	VTrans	Chittenden County Regional Planning Commission	Municipal Road Erosion Inventory	Roads	CWF	\$8,000
Walden	AAFM	Lynd, Geordie	Heavy Use Area Protection	Ag	Capital	\$6,400
Walden	AAFM	Lynd, Geordie	Waste Transfer	Ag	Capital	\$6,700
Walden	AAFM	Lynd, Geordie	Waste Storage Structure	Ag	Capital	\$12,900
Walden	AAFM	Lynd, Geordie	Waste Transfer	Ag	Capital	\$49,000
Walden	VTrans	Walden	Municipal Road Erosion Inventory	Roads	FTF	\$6,400
Wolcott	ANR	Vermont River Conservancy	Wild Branch Lamoille River Corridor Easement (McCrumb Property) – Implementation	NR	Capital	\$37,961
Wolcott	ANR	Wolcott	Lamoille River/Wolcott Town Garage and Fire Station Stormwater Treatment – Implementation	SW	Capital	\$15,888
Wolcott	VTrans	Wolcott	TH 19 Sand Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTTF	\$20,000
Woodbury	VTrans	Woodbury	TH 36 East Hill Road – Municipal Roads Erosion Control	Roads	VTTF	\$20,000

Lake Memphremagog Watershed Summary



State funding awarded in the Lake Memphremagog watershed in SFY 2017, by sector
Total: \$607,164

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Lake Memphremagog watershed.



AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	NA
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	27
Number of barnyard/production area practices installed	2
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	NA
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	5

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	NA
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	29
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	3
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	5
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	NA

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

Lake Memphremagog Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Lake Memphremagog watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Albany	VTrans	Albany	TH 8 Shuttsville Road – Municipal Roads Erosion Control	Roads	VTF	\$11,589
Albany	VTrans	Albany	TH 2 County Road – Correction of Slope Erosion and Culvert Upgrade	Roads	VTF	\$18,052
Averill	VTrans	Averill	TH 3 Cottage Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CFW	\$20,000
Brighton	ANR	Brighton	Brighton Wastewater Treatment Asset Management Program Implementation	WW	CFW	\$30,000
Brownington	VTrans	Brownington	Municipal Road Erosion Inventory	Roads	VTF	\$8,000
Charleston	AAF	Tip Top Tanner Farm	Clean Water Diversion	Ag	Capital	\$25,000
Charleston	AAF	Tip Top Tanner Farm	Waste Facility Cover	Ag	Capital	\$50,000
Charleston	VTrans	Charleston	TH 16 Gratton Hill Road - Site 2 – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$18,518
Charleston	VTrans	Charleston	TH 16 Gratton Hill Road - Site 1 – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$19,871
Charleston	VTrans	Charleston	TH 27 East Echo Lake Road – Municipal Roads Erosion Control and Correction of Slope Erosion	Roads	VTF	\$20,000
Charleston	VTrans	Charleston	TH 1 Hudson Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$34,597
Charleston, Morgan	ANR	Northwoods Stewardship Center	Echo and Seymour Lake Shoreland Erosion Assessment – Project Identification	Roads	CFW	\$14,960
Coventry	AAF	Andrew, John	Clean Water Diversion	Ag	Capital	\$10,000
Coventry	AAF	Andrew, John	Heavy Use Area Protection	Ag	Capital	\$65,000
Coventry	VTrans	Coventry	Municipal Road Erosion Inventory	Roads	VTF	\$8,000
Derby	AAF	Fortin, Edward	Aeration Tillage	Ag	General	\$3,657
Derby	ANR	Derby	Hall's Creek Culvert Replacement	NR	Other	\$10,000
Derby	ANR	Derby Line	Derby Line Wastewater Treatment Facility Refurbishment – Preliminary Design	WW	CWSRF	\$12,500
Derby	VTrans	Derby	Municipal Road Erosion Inventory	Roads	FTF	\$8,000
Holland, Irasburg, Newport Town	ANR	Orleans County Natural Resources Conservation District	Partner Water Quality Monitoring Pre-and-Post Project Implementation – Tributary Monitoring	All	CFW	\$8,062
Irasburg	AAF	Robillard Flats Farm, Inc	Aeration Tillage	Ag	General	\$5,000

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

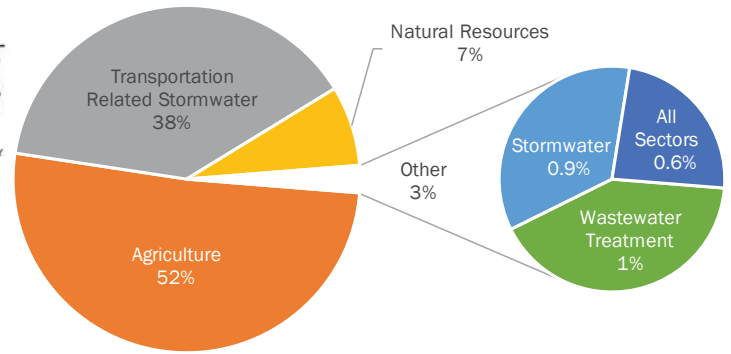
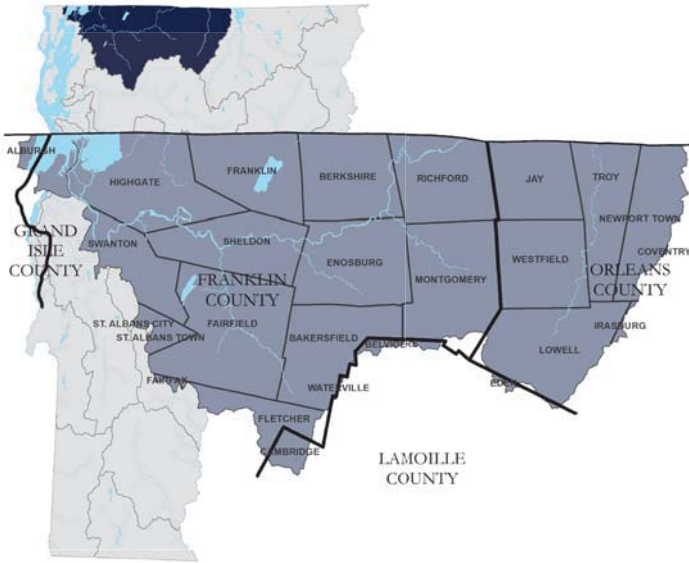
Lake Memphremagog Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Lake Memphremagog watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Morgan	VTrans	Morgan	TH 27 Oxbow Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$20,354
Orleans County	AAFM	Orleans County Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
Troy	VTrans	Troy	Municipal Road Erosion Inventory	Roads	FTF	\$7,680
Westfield	VTrans	Westfield	TH 1 North Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$33,237
Westmore	VTrans	Westmore	TH 10 Job's Pond Camp Road – Municipal Roads Culvert Upgrade	Roads	CWF	\$11,283

Missisquoi Bay Watershed Summary



State funding awarded in the Missisquoi Bay watershed in SFY 2017, by sector
Total: \$1,677,217

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017



Results of projects completed in SFY 2017, by sector, in the Missisquoi Bay watershed.

AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	481
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	14
Acres of water quality protections within conserved agricultural lands	36

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	15
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	38
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	1
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	10
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	4.1

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	20

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	3

Missisquoi Bay Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Missisquoi Bay watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Bakersfield	VTrans	Bakersfield	TH 3/25 East Bakersfield/King Road – Municipal Roads Erosion Control	Roads	CWF	\$3,219
Bakersfield	VTrans	Bakersfield	Municipal Culvert and Road Erosion Inventory	Roads	VTTF	\$3,462
Bakersfield	VTrans	Bakersfield	TH 37 Waterville Mtn. Road – Municipal Roads Erosion Control	Roads	VTTF	\$3,930
Bakersfield	VTrans	Bakersfield	TH 38 Lost Nation Road – Municipal Roads Erosion Control	Roads	VTTF	\$5,213
Berkshire	VTrans	Berkshire	TH 15 Ayers Hill Road – Municipal Roads Erosion Control	Roads	VTTF	\$9,281
Cambridge	AAFM	Beaudoin, Gregory	Clean Water Diversion	Ag	Capital	\$10,000
Cambridge	AAFM	Beaudoin, Gregory	Heavy Use Area Protection	Ag	Capital	\$10,000
Cambridge	AAFM	Beaudoin, Gregory	Heavy Use Area Protection	Ag	Capital	\$10,000
Cambridge	AAFM	Beaudoin, Gregory	Waste Transfer	Ag	Capital	\$20,000
Enosburgh	AAFM	B & T Black Creek Farm Ltd	Alternative Manure Incorporation	Ag	General	\$5,000
Enosburgh	AAFM	Lussier, Daniel	Cover Crop	Ag	General	\$1,620
Enosburgh	AAFM	Wright Farm	Access Road	Ag	CWF	\$20,253
Enosburgh	AAFM	Wright Farm	Heavy Use Area Protection	Ag	CWF	\$21,596
Enosburgh	AAFM	Wright Farm	Waste Storage Structure	Ag	CWF	\$111,117
Enosburgh	VTrans	Enosburgh	Municipal Salt and Sand Shed Design and Construction	Roads	FTF	\$300,000
Enosburgh	VTrans	Enosburgh	TH 11 Woodward Neighborhood Road – Municipal Roads Erosion Control	Roads	VTTF	\$10,656
Enosburgh	VTrans	Enosburgh Falls	TH 5 Duffy Hill Road – Municipal Roads Culvert Upgrade	Roads	CWF	\$40,000
Enosburgh	VTrans	Northwest Regional Planning Commission	Municipal Road Erosion Inventory	Roads	FTF	\$5,238
Fairfield	AAFM	Cream & Sugar Spread	Alternative Manure Incorporation	Ag	General	\$1,458
Fairfield	AAFM	Magnan Bros Dairy, Inc.	Alternative Manure Incorporation	Ag	General	\$5,000
Franklin	AAFM	Borderview Farm LLC	Heavy Use Area Protection	Ag	Capital	\$15,425
Franklin	AAFM	Borderview Farm LLC	Heavy Use Area Protection - Part #2	Ag	Capital	\$17,238
Franklin	AAFM	Borderview Farm LLC	Waste Storage Structure	Ag	Capital	\$70,943
Franklin	AAFM	Bridgeman View Farm	Manure Application Record Keeping Equipment	Ag	Capital	\$10,000
Franklin	AAFM	Riverview Farm	Waste Transfer	Ag	Capital	\$50,000
Franklin	ANR	Franklin Watershed Committee	Lake Carmi Private Camp Roads and Culverts Erosion Assessment – Project Identification	Roads	CWF	\$4,000
Franklin	ANR	Franklin Watershed Committee	Lake Carmi/Franklin Roadside Erosion Control – Implementation	Roads	CWF	\$8,500
Franklin	ANR	Franklin Watershed Committee	Pike River/Franklin Town Highway Garage Stormwater Treatment – Preliminary Design	SW	Capital	\$9,800
Franklin	VTrans	Franklin	TH 5 Swamp Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$11,000
Highgate	AAFM	Rainville Dairy LLC	Closure of Waste Impoundments	Ag	Capital	\$22

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

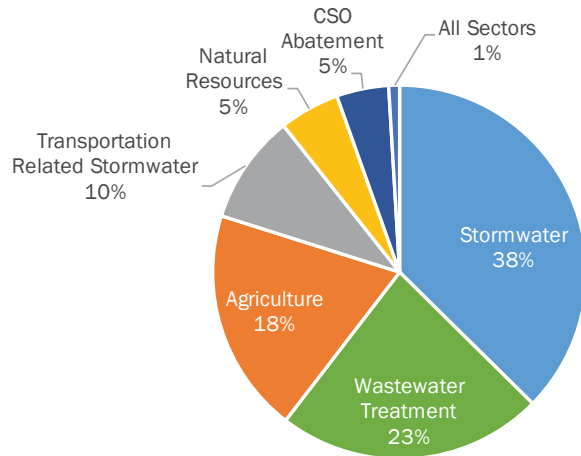
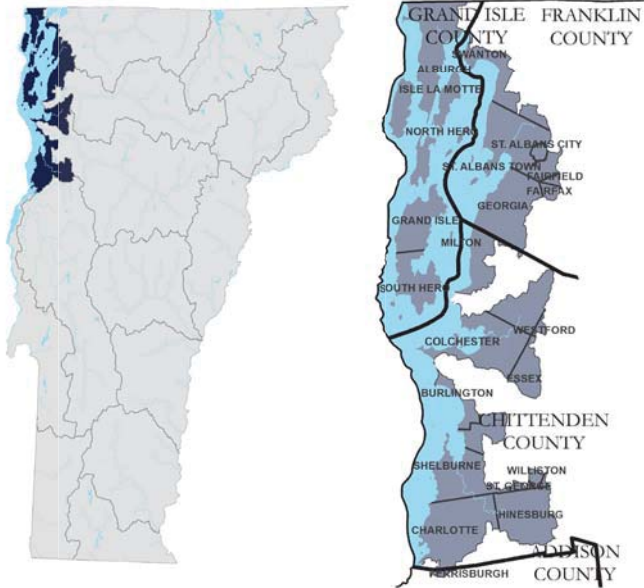
Missisquoi Bay Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Missisquoi Bay watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Highgate	AAFM	Rainville Dairy LLC	Additional Conservation Practices	Ag	Capital	\$8,753
Highgate	AAFM	Rainville Dairy LLC	Waste Treatment - Silage	Ag	Capital	\$8,764
Highgate	AAFM	Rainville Dairy LLC	Waste Storage Structure	Ag	Capital	\$17,958
Highgate	AAFM	Rainville Dairy LLC	Waste Transfer	Ag	Capital	\$19,200
Highgate	AAFM	Rainville Dairy LLC	Waste Storage Structure	Ag	Capital	\$20,303
Highgate	ANR	Vermont Land Trust	Rock River Corridor Easement (Choiniere Property) – Implementation	NR	Capital	\$46,325
Highgate	VTrans	Highgate	TH 15 Shipyard Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$15,788
Highgate	VTrans	Highgate	TH 22 Tarte Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$23,176
Irasburg	VTrans	Irasburg	TH 4 – Municipal Roads Erosion Control	Roads	VTF	\$12,967
Lowell	AAFM	LeBlanc, Alain	Waste Transfer	Ag	Capital	\$6,500
Lowell	AAFM	LeBlanc, Alain	Waste Treatment - Milk House Waste	Ag	Capital	\$13,500
Newport City	ANR	Missisquoi River Basin Association	Sleeper Pond/Mud Creek Dam Removal Alternatives Analysis in Newport Center – Preliminary Design	NR	CWF	\$32,450
Newport Town	AAFM	Leather, Jeremy	Heavy Use Area Protection	Ag	Capital	\$40,000
Norton	VTrans	Norton	TH 3 Churchill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$19,808
Richford	AAFM	Pleasant Valley Farm	Waste Treatment - Silage	Ag	Capital	\$15,617
Richford	AAFM	Pleasant Valley Farm	Waste Treatment - Silage (Part #2)	Ag	Capital	\$34,383
Richford	VTrans	Richford	TH 8 Berry Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$19,046
Richford	VTrans	Richford	TH 3 North Branch Road – Correction of Stream Bank Erosion	Roads	CWF	\$40,000
Richford	VTrans	Richford	TH 11 Corliss Road – Correction of Slope Erosion and Culvert Upgrade	Roads	CWF	\$40,000
Swanton	AAFM	Friends of Northern Lake Champlain	Education and Outreach	Ag	General	\$1,000
Swanton	AAFM	Manning Dairy LLC	Waste Treatment - Silage	Ag	Capital	\$18,600
Swanton	AAFM	Manning Dairy LLC	Waste Transfer	Ag	Capital	\$56,400
Swanton	VTrans	Swanton	TH 17 Waugh Farm Road – Correction of Stream Bank Erosion and Road Erosion Control	Roads	CWF	\$8,524
Troy	AAFM	J & R Family Farm	Waste Transfer	Ag	Capital	\$9,000
Troy	AAFM	Knox Ridge Holsteins	Aeration Tillage	Ag	General	\$1,752
Troy	VTrans	Troy	TH 31 Collins Mill Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Westfield	AAFM	Missisquoi Valley Farm LLC	Aeration Tillage	Ag	General	\$2,760
Westfield	ANR	Missisquoi River Basin Association	Jay State Forest Restoration and Erosion Control – Implementation	NR	Capital	\$37,360
Westmore	VTrans	Westmore	TH 30 Old Cottage Lane – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$20,000

Northern Lake Champlain Watershed Summary



State funding awarded in the Northern Lake Champlain watershed in SFY 2017, by sector
Total: \$2,177,984

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Northern Lake Champlain watershed.



AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	466
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	13
Number of barnyard/production area practices installed	4
Acres of water quality protections within conserved agricultural lands	20

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	13
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	3

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	7
Acres of river corridor conserved through easements	NA
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	2

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	NA
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	2
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	NA

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

Northern Lake Champlain Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Northern Lake Champlain watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Alburgh	AAFM	Reynolds, Newton	Heavy Use Area Protection	Ag	Capital	\$7,357
Alburgh	AAFM	Reynolds, Newton	Waste Storage Structure	Ag	Capital	\$67,643
Alburgh	ANR	Friends of Northern Lake Champlain	Northern Lake Champlain/Alburgh School Stormwater Treatment – Preliminary Design	SW	Capital	\$6,500
Alburgh	VTrans	Northwest Regional Planning Commission	Municipal Culvert and Road Erosion Inventory	Roads	VTTF	\$5,131
Burlington	ANR	Burlington	Burlington Wastewater Treatment Asset Management Program Implementation	WW	CWF	\$50,800
Charlotte	AAFM	M & C Family Farm	Cover Crop	Ag	General	\$5,000
Charlotte	ANR	Charlotte	LaPlatte River Riparian Restoration	NR	Other	\$2,750
Charlotte	ANR	Lewis Creek Association	Partner Water Quality Monitoring Pre-and-Post Project Implementation – Thorp Brook – South Chittenden River Watch	All	CWF	\$6,879
Charlotte	ANR	Lewis Creek Association	Beecher Hill Brook/Hinesburg Town Garage Beecher Hill Rd. Stormwater Treatment – Final Design	SW	Capital	\$33,189
Charlotte	VTrans	Charlotte	TH 46 East Thompson's Point Road – Bioretention	Roads	CWF	\$12,077
Charlotte	VTrans	Charlotte	TH 46 East Thompson's Point Road - Swale – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$16,000
Fairfield	AAFM	Magnan Bros Maquam Shore Dairy LLC	Alternative Manure Incorporation	Ag	General	\$5,000
Greensboro	VTrans	Greensboro	TH 54 Young Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Hinesburg	ANR	Lake Iroquois Association	Lake Iroquois/Pine Shore Road, Hinesburg Stormwater Treatment – Implementation	SW	Capital	\$34,000
Hinesburg	ANR	Vermont Land Trust	LaPlatte River Corridor Easement (O'Neil Farm) – Implementation	NR	Capital	\$86,633
Hinesburg	ANR	Winooski Natural Resources Conservation District	Lake Iroquois Shoreland Erosion Control – Final Design	NR	CWF	\$20,299
Isle La Motte	VTrans	Isle La Motte	TH 2 West Shore Road – Correction of Slope Erosion and Culvert Upgrade	Roads	CWF	\$15,922
Shelburne	ANR	Shelburne	Munroe Brook/Brook Lane, Shelburne Stormwater Treatment – Implementation	SW	CWF	\$12,395
Shelburne	ANR	Shelburne	Shelburne Wastewater Collection System Refurbishment – Final Design	WW	CWSRF	\$94,000
Shelburne, South Burlington	ANR	Shelburne	Shelburne Bay/Nesti Lane, Shelburne and South Burlington Stormwater Treatment – Implementation	SW	CWF	\$219,200
South Burlington	ANR	South Burlington	Potash Brook/Commerce Square, Williston Road, South Burlington Stormwater Treatment – Implementation	SW	Capital	\$150,000

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

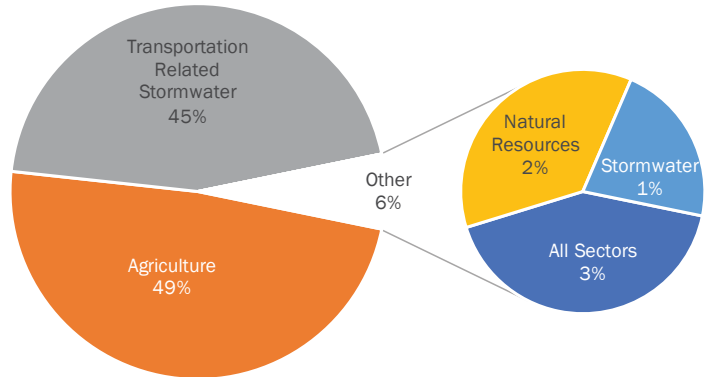
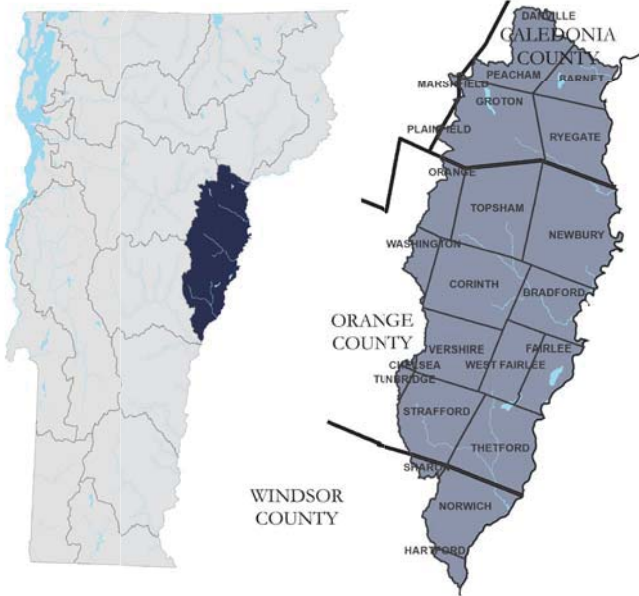
Northern Lake Champlain Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Northern Lake Champlain watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
South Burlington	ANR	South Burlington	Potash Brook/Kennedy Drive, South Burlington Stormwater Pond Expansion/Retrofit – Preliminary Design	SW	CWF	\$20,000
South Hero	AAFM	Health Hero Island Farm	Roof Runoff Management	Ag	Capital	\$5,000
St. Albans City	AAFM	Boissoneault, Jeffrey	Alternative Manure Incorporation	Ag	General	\$5,000
St. Albans City	AAFM	Scott Magnan's Custom Service	Manure Application Record Keeping Equipment	Ag	Capital	\$7,500
St. Albans City	AAFM	Scott Magnan's Custom Service	Education and Outreach	Ag	General	\$1,000
St. Albans City	AAFM	Scott Magnan's Custom Service	Alternative Manure Incorporation	Ag	General	\$1,665
St. Albans City	ANR	St. Albans City	St. Albans City Street Sweeper Equipment	Roads	CWF	\$128,074
Swanton	AAFM	Longway Farms LLC	Heavy Use Area Protection	Ag	Capital	\$18,000
Swanton	AAFM	Longway Farms LLC	Heavy Use Area Protection	Ag	Capital	\$18,000
Swanton	AAFM	Longway Farms LLC	Clean Water Diversion	Ag	Capital	\$27,000

Ompompanoosuc, Stevens, Waits, Wells Rivers Watershed Summary



State funding awarded in the Ompompanoosuc, Stevens, Waits, Wells Rivers watershed in SFY 2017, by sector
Total: \$334,020

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Ompompanoosuc, Stevens, Waits, Wells Rivers watershed.

AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	177
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	67
Number of barnyard/production area practices installed	2
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	No data
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	No data

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	32
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	0.4
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	4
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	No data

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

Ompompanoosuc, Stevens, Waits, Wells Rivers Watershed Projects

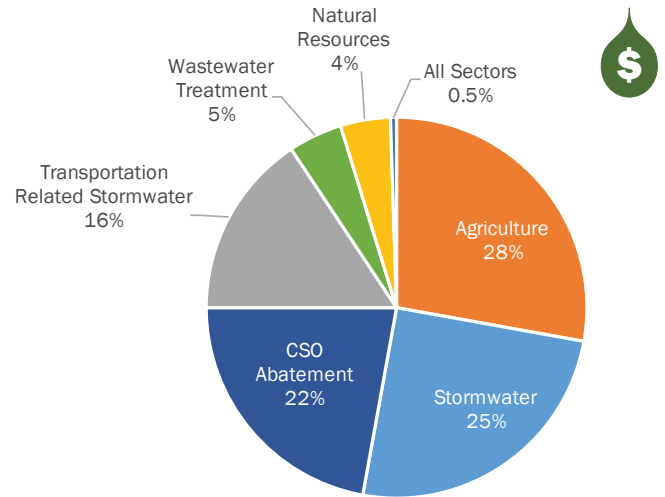


Clean water projects funded by state agencies in SFY 2017 in the Ompompanoosuc, Stevens, Waits, Wells Rivers watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Corinth	VTrans	Corinth	TH 32 Coppermine Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$13,212
Fairlee	VTrans	Fairlee	TH 18 Quinibeck Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Groton	VTrans	Groton	TH 2/4/27 Minard Hill/Great/Buzzy Road – Municipal Roads Erosion Control and Correction of Streambank and Slope Erosion	Roads	VTF	\$16,104
Peacham	VTrans	Peacham	TH 6 Greenbay Loop – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$20,000
Peacham	VTrans	Peacham	Municipal Road Erosion Inventory	Roads	FTF	\$8,000
Ryegate	AAF	Clough, Rick	Forested Riparian Buffer Restoration	Ag	Capital	\$1,386
Ryegate	AAF	Clough, Rick	Forested Riparian Buffer Restoration	Ag	Capital	\$17,202
Ryegate	AAF	Home Acres Farm	Clean Water Diversion	Ag	Capital	\$4,227
Ryegate	AAF	Home Acres Farm	Clean Water Diversion	Ag	Capital	\$45,773
Ryegate	AAF	Scotch Burn Farm LLC	Cover Crop	Ag	General	\$2,709
Ryegate	AAF	Wayside Meadow Farm	Cover Crop	Ag	General	\$4,050
Ryegate	VTrans	Ryegate	TH 7 North Bailey Hazen Road – Municipal Roads Culvert Upgrade	Roads	CWF	\$9,600
Thetford	VTrans	Thetford	TH 20 Sawnee Bean Road – Correction of Stream Bank Erosion and Culvert Upgrade	Roads	CWF	\$20,000
Thetford	VTrans	Thetford	Municipal Culvert Inventory	Roads	VTF	\$8,000
Watershed-wide	ANR	White River Natural Resources Conservation District	Agricultural Pollution Prevention Project Planning and Design in the Stevens-Wells-Waits-Ompompanoosuc Basin	Ag	CWF	\$10,000

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

Otter Creek Watershed Summary



State funding awarded in the Otter Creek watershed in SFY 2017, by sector
Total: \$1,912,414

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Otter Creek watershed.



AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	585
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	5
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	109
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	NA
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	0.3
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	18
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	0.7

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	10

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

Otter Creek Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Otter Creek watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Addison	ANR	Addison	Addison New Wastewater Treatment Facility and Collection System – Final Design	WW	CWSRF	\$50,000
Brandon	ANR	Brandon	Brandon Stormwater Master Plan – Project Identification	SW	CWF	\$30,000
Brandon	VTrans	Brandon	TH 37 Birch Hill Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Brandon	VTrans	Brandon	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$6,888
Bridport	AAFM	Blissful Dairy LLC	Access Road	Ag	Capital	\$11,000
Bridport	AAFM	Blissful Dairy LLC	Additional Conservation Practices	Ag	Capital	\$5,000
Bridport	AAFM	Blissful Dairy LLC	Heavy Use Area Protection	Ag	Capital	\$2,600
Bridport	AAFM	Blissful Dairy LLC	Heavy Use Area Protection	Ag	Capital	\$8,000
Bridport	AAFM	Blissful Dairy LLC	Pumping Plant	Ag	Capital	\$37,800
Bridport	AAFM	Blissful Dairy LLC	Pumping Plant	Ag	Capital	\$15,120
Bridport	AAFM	Blissful Dairy LLC	Waste Storage Structure	Ag	Capital	\$26,000
Bridport	AAFM	Blissful Dairy LLC	Waste Storage Structure	Ag	Capital	\$9,000
Bridport	AAFM	Blissful Dairy LLC	Waste Transfer	Ag	Capital	\$11,000
Bridport	AAFM	Blissful Dairy LLC	Waste Transfer	Ag	Capital	\$20,480
Bridport	VTrans	Bridport	TH 24 Market Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Clarendon	AAFM	Grembowicz Farm	Conservation Tillage	Ag	General	\$5,000
Clarendon	ANR	Rutland County Natural Resources Conservation District	Cold River Floodplain Restoration and Corridor Easement (Ruane Property) – Implementation	NR	Capital	\$75,100
Danby	VTrans	Danby	TH 1 Danby-Pawlet Road – Municipal Roads Culvert Upgrade	Roads	CWF	\$29,600
Danby	VTrans	Danby	TH 20 Raymond Road – Municipal Roads Erosion Control and Correction of Slope Erosion	Roads	VTF	\$8,905
Ferrisburgh, Starksboro	ANR	Lewis Creek Association	Partner Water Quality Monitoring Pre-and-Post Project Implementation – Livestock Exclusion Practices – Addison County River Watch Collaborative	Ag	CWF	\$7,730
Ferrisburgh	AAFM	Allendale Farm	Clean Water Diversion	Ag	Capital	\$6,400
Ferrisburgh	AAFM	Allendale Farm	Pumping Plant	Ag	Capital	\$12,100
Ferrisburgh	AAFM	Husk, Alice	Use Exclusion	Ag	Capital	\$6,300
Hubbardton	VTrans	Hubbardton	TH 4 High Pond Road – Municipal Roads Erosion Control	Roads	VTF	\$20,000
Hubbardton	VTrans	Hubbardton	TH 4 High Pond Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$12,590
Ira	VTrans	Ira	Th 2 West Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$3,518
Ira	VTrans	Ira	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$2,721
Ira	VTrans	Ira	TH 3 Pyka Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$11,333
Ira	VTrans	Ira	TH 7 Cross Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$3,912
Lincoln	VTrans	Lincoln	TH 6/9 York Hill/West Hill/Gove Hill – Municipal Roads Erosion Control, Culvert Upgrade, and Correction of Slope Erosion	Roads	CWF	\$20,000
Lincoln	VTrans	Lincoln	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$1,760

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

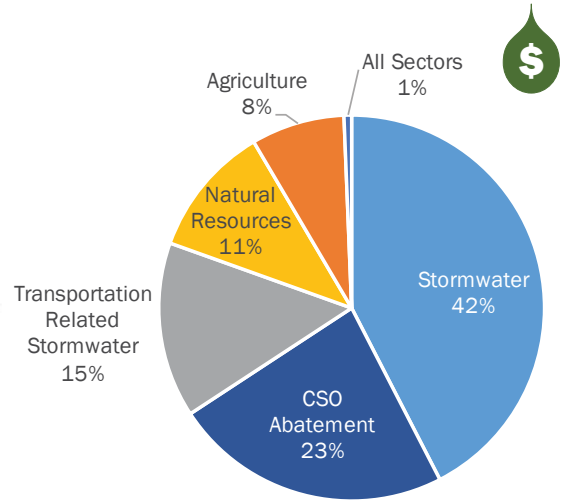
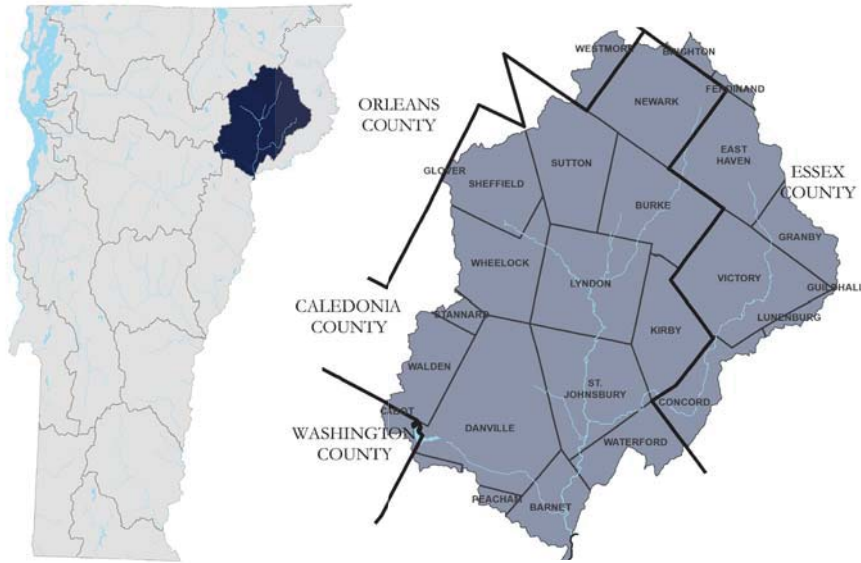
Otter Creek Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Otter Creek watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Mendon	VTrans	Mendon	TH 14/23 Old Turnpike/Ridge Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$10,810
Mendon	VTrans	Mendon	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$7,168
Mendon	VTrans	Mendon	TH 7 Wheelerville Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$23,457
Monkton	VTrans	Monkton	TH 1 Monkton Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$30,000
Mount Holly	VTrans	Mount Holly	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$5,738
Orwell	AAF	LaDuc Acres	Access Road	Ag	Capital	\$9,000
Panton	AAF	Vorsteveld Farm	Waste Storage Structure	Ag	Capital	\$50,000
Pittsford	VTrans	Pittsford	Municipal Road Erosion Inventory	Roads	FTF	\$6,734
Proctor	ANR	Proctor	Proctor Wastewater Collection System Refurbishment – Preliminary Design	WW	CWSRF	\$20,300
Proctor	VTrans	Proctor	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$5,126
Ripton	VTrans	Ripton	TH 21 Brooks Road – Correction of Stream Bank Erosion	Roads	CWF	\$6,968
Ripton	VTrans	Ripton	Municipal Road Erosion Inventory	Roads	VTF	\$4,147
Rutland City	ANR	Rutland City	Rutland City Combined Sewer Overflow Abatement – Construction	SW, CSO	Capital	\$596,376
Rutland City	ANR	Rutland City	Rutland City Wastewater Collection System and Combined Sewer Overflow Abatement – Preliminary Design	SW, CSO	CWSRF	\$251,022
Rutland City	ANR	Rutland County Natural Resources Conservation District	Moon Brook/Easterly Avenue, Rutland City Stormwater Treatment – Final Design	SW	Capital	\$20,000
Starksboro	AAF	Clifford Farms LLC	Additional Conservation Practices	Ag	Capital	\$11,060
Starksboro	AAF	Clifford Farms LLC	Waste Storage Structure	Ag	Capital	\$81,743
Starksboro	AAF	Clifford Farms LLC	Waste Storage Structure	Ag	Capital	\$2,288
Starksboro	AAF	Clifford Farms LLC	Waste Transfer	Ag	Capital	\$4,908
Wallingford	VTrans	Wallingford	TH 72 Earl Wade Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$13,504
Waltham	VTrans	Waltham	TH 2 Maple St – Municipal Roads Erosion Control	Roads	CWF	\$4,920
West Rutland	VTrans	West Rutland	Municipal Culvert and Road Erosion Inventory	Roads	CWF	\$7,159

Passumpsic River Watershed Summary



State funding awarded in the Passumpsic River watershed in SFY 2017, by sector
Total: \$1,412,001

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Passumpsic River watershed.



AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	NA
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	NA
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	NA
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	NA
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	1
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	19
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	No data

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	41.3

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	No data

Passumpsic River Watershed Projects

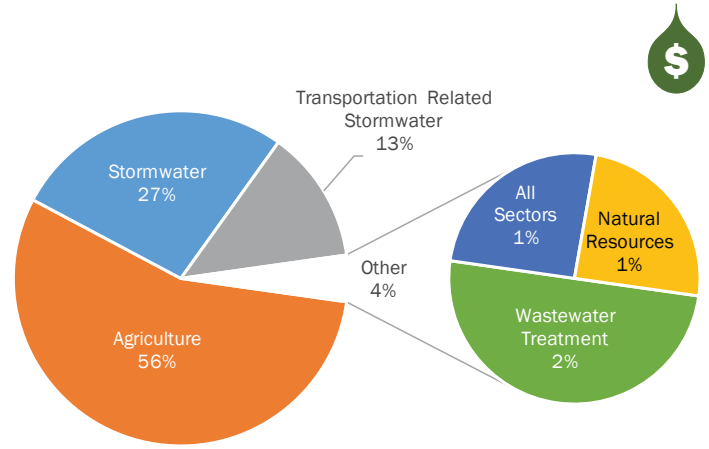
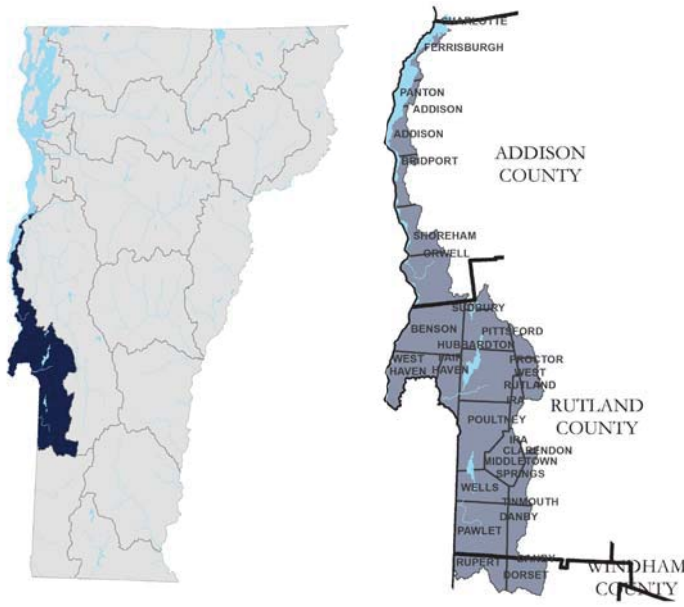


Clean water projects funded by state agencies in SFY 2017 in the Passumpsic River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Barnet	VTrans	Barnet	Municipal Culvert and Road Erosion Inventory	Roads	FTF	\$8,000
Burke	ANR	Caledonia County Natural Resources Conservation District	Dishmill Brook/Burke Mountain Academy Stormwater Treatment – Implementation	SW	Capital	\$7,276
Burke	ANR	Caledonia County Natural Resources Conservation District	Dishmill Brook/Burke Stormwater Treatment – Implementation	SW	CWF	\$40,970
Burke	ANR	Connecticut River Conservancy	Passumpsic River Dam Removal at Burke Hollow Road in East Burke – Implementation	NR	Capital	\$150,000
Burke	VTrans	Burke	TH 14 Carter Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$15,048
Burke	VTrans	Burke	TH 41 Pinkham Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$20,000
Cabot	VTrans	Cabot	TH 59 West Shore Rd, TH 1 VT 215 S – Municipal Roads Culvert Upgrade	Roads	VTF	\$19,280
Charleston	ANR	Northwoods Stewardship Center	Clean Water Projects Planning and Implementation Work Crew (Northwoods Stewardship Center)	SW	CWF	\$125,240
Concord	VTrans	Concord	TH 29 Bullard Woods Road – Municipal Roads Erosion Control	Roads	VTF	\$5,888
Concord	VTrans	Concord	TH 5/28 Shadow Lake/Kirby Mountain Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$15,680
Danville	VTrans	Danville	TH 54 Thaddeus Stevens Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$20,000
Danville	VTrans	Danville	TH 78 – Municipal Roads Culvert Upgrade	Roads	VTF	\$40,000
Kirby	VTrans	Kirby	Municipal Road Erosion Inventory	Roads	FTF	\$8,000
St. Johnsbury	ANR	Caledonia County Natural Resources Conservation District	Passumpsic River/Oak Street, St. Johnsbury Stormwater Treatment – Implementation	SW	Capital	\$91,500
St. Johnsbury	ANR	St. Johnsbury	St. Johnsbury Combined Sewer Overflow Abatement – Construction	SW, CSO	Capital	\$578,779
St. Johnsbury	ANR	St. Johnsbury	St. Johnsbury Wastewater Treatment Facility and Collection System Refurbishment and Combined Sewer Overflow Abatement – Final Design	SW, CSO	CWSRF	\$80,250
St. Johnsbury	VTrans	St. Johnsbury	TH 69 Lawrence Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$20,000
Sutton	AAF	Don-Sim Farm LLP	Heavy Use Area Protection	Ag	Capital	\$34,000

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

South Lake Champlain, Poultney, Mettowie Rivers Watershed Summary



**State funding awarded in the South Lake Champlain, Poultney, Mettowie Rivers watershed in SFY 2017, by sector
Total: \$1,564,986**

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the South Lake Champlain, Poultney, Mettowie Rivers watershed.



AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	238
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	15
Acres of water quality protections within conserved agricultural lands	28

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	9
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	NA
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	2,870
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	2
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	3
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA
TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	11

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA
TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

South Lake Champlain, Poultney, Mettowee Rivers Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the South Lake Champlain, Poultney, Mettowee Rivers watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Addison	AAFM	Chimney Point Farm LP	Critical Area Planting	Ag	Capital	\$233
Addison	AAFM	Chimney Point Farm LP	Mulching	Ag	Capital	\$240
Addison	AAFM	Chimney Point Farm LP	Subsurface Drain	Ag	Capital	\$910
Addison	AAFM	Chimney Point Farm LP	Clean Water Diversion	Ag	Capital	\$1,109
Addison	AAFM	Chimney Point Farm LP	Underground Outlet	Ag	Capital	\$1,615
Addison	AAFM	Chimney Point Farm LP	Access Road	Ag	Capital	\$4,698
Addison	AAFM	Chimney Point Farm LP	Obstruction Removal	Ag	Capital	\$4,807
Addison	AAFM	Chimney Point Farm LP	Waste Storage Structure	Ag	Capital	\$9,138
Addison	AAFM	Correia Family Limited Partnership	Alternative Manure Incorporation	Ag	General	\$5,000
Addison	AAFM	Kayhart Brothers LLC	Water and Sediment Control Basin	Ag	Capital	\$35,000
Benson	VHCB	Vermont Land Trust	Lussier Farm Agricultural Easement with Riparian Buffers	Ag	Capital, Other	\$156,000
Bridport	AAFM	Black & White Face Ranch	Waste Storage Structure	Ag	Capital	\$50,000
Castleton	ANR	Castleton	Castleton Wastewater Collection System Refurbishment – Final Design	WW	CWSRF	\$17,800
Castleton	VTrans	Castleton	TH 1 Main St – Municipal Roads Culvert Upgrade	Roads	CWF	\$26,952
Dorset, Rupert	ANR	Bennington County Conservation District	Mettowee Watershed Forest Roads Erosion Assessment – Project Identification	NR	CWF	\$11,000
Fair Haven	VTrans	Fair Haven	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$4,932
Hubbardton	VTrans	Hubbardton	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$6,465
Middletown Springs	VTrans	Middletown Springs	TH 12 Dayton Hill – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$9,905
Orwell	VTrans	Orwell	TH 39 Singing Cedars Road – Municipal Roads Erosion Control and Correction of Slope Erosion	Roads	CWF	\$13,878
Pawlet	AAFM	Deer Flats Farm LLC	Waste Storage Structure	Ag	Capital	\$200,000
Pawlet	AAFM	MiLaura Farm	Cover Crop	Ag	General	\$1,870
Pawlet	AAFM	Woodlawn Holstein LLC	Stream Crossing	Ag	Capital	\$22,500
Pawlet	AAFM	Woodlawn Holstein LLC	Access Road	Ag	Capital	\$37,500
Pawlet	VHCB	Vermont Land Trust	Cleveland Farm III Agricultural Easement with Riparian Buffers	Ag	Capital, Other	\$144,109
Pawlet	VTrans	Pawlet	TH 24 Rupert Hill Road – Municipal Roads Erosion Control	Roads	CWF	\$1,624
Pawlet	VTrans	Pawlet	TH 1 VT 153 – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$13,116
Pawlet	VTrans	Pawlet	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$4,937
Poultney	ANR	Poultney Village	Poultney River/York Street, Poultney Stormwater Treatment – Implementation	SW	CWF	\$420,000
Poultney	VTrans	Poultney	TH 34 River St – Correction of Stream Bank Erosion and Road Erosion Control	Roads	CWF	\$14,329
Rupert	VTrans	Rupert	TH 17 Rogers Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$23,360
Shoreham	AAFM	Woodnotch Farms Inc.	Crop Rotation, Cover Crop, Alternative Manure Incorporation	Ag	General	\$4,628

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

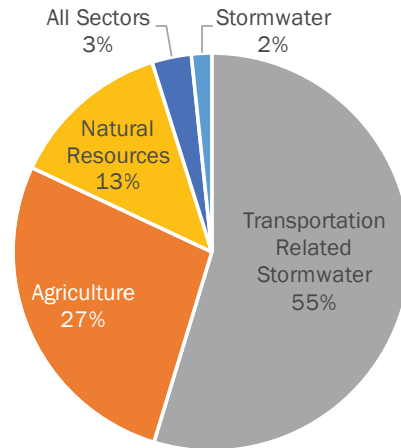
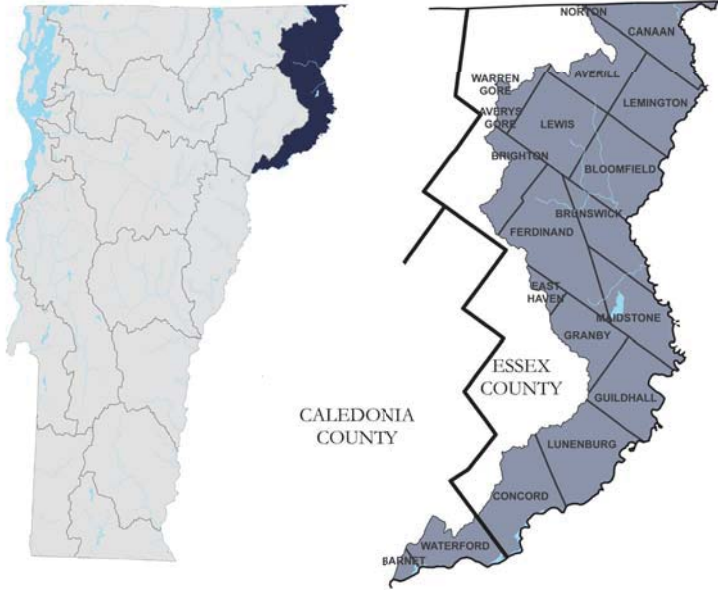
South Lake Champlain, Poultney, Mettowie Rivers Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the South Lake Champlain, Poultney, Mettowie Rivers watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Shoreham	VTrans	Shoreham	TH 40 Harrington Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$9,885
Tinmouth	VTrans	Tinmouth	TH 28 McCoy Road – Correction of Slope Erosion	Roads	CWF	\$24,000
Watershed-wide	ANR	Poultney Mettowie Natural Resources Conservation District	Partner Water Quality Monitoring Pre-and-Post Project Implementation – Mettawee, Castleton, and Hubbardton Rivers, Flower Brook, and Lake Bomoseen	All	CWF	\$8,000
Wells	VTrans	Wells	TH 31 Tadmer Road – Correction of Slope Erosion	Roads	CWF	\$21,842
Wells	VTrans	Wells	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$6,196
West Haven	VTrans	West Haven	TH 1 Stage Road – Municipal Roads Erosion Control	Roads	CWF	\$7,281

Upper Connecticut River Watershed Summary



State funding awarded in the Upper Connecticut River watershed in SFY 2017, by sector
Total: \$281,391

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017



Results of projects completed in SFY 2017, by sector, in the Upper Connecticut River watershed.

AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	NA
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	NA
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	NA
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	7
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	1.5
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	12
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	No data

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

Upper Connecticut River Watershed Projects

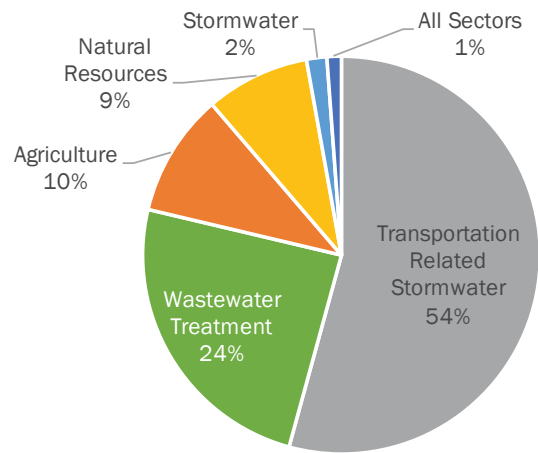
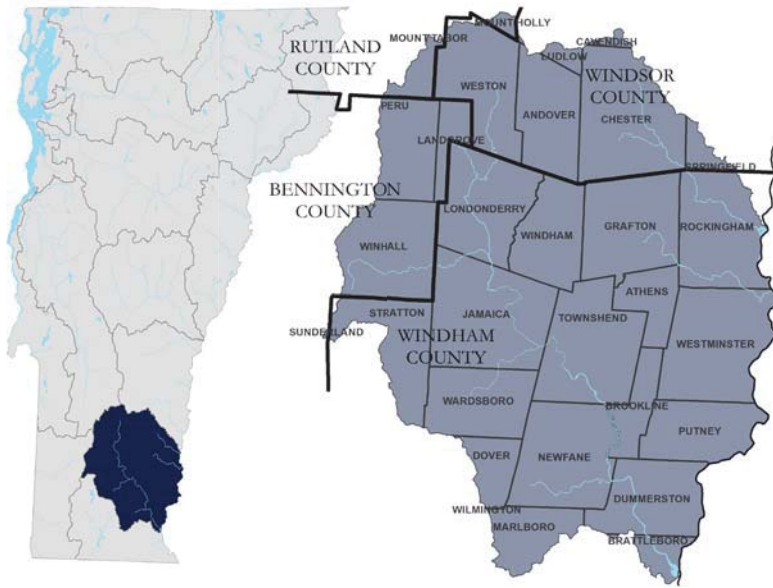


Clean water projects funded by state agencies in SFY 2017 in the Upper Connecticut River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Bloomfield	VTrans	Bloomfield	TH 2 Mill Brook Road – Correction of Stream Bank Erosion	Roads	VTF	\$30,792
Brighton	VTrans	Brighton	TH 5 Head of the Pond Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$20,000
Brighton	VTrans	Brighton	TH 5 Arthur John & Head of Pond Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$4,600
Brunswick, Canaan	ANR	Essex County Natural Resources Conservation District	Johnson Farm Wetland Restoration	NR	Other	\$10,000
Canaan	VTrans	Canaan	TH 15 Canaan Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$20,000
Corinth	VTrans	Corinth	Municipal Road Erosion Inventory	Roads	FTF	\$5,392
Granby	VTrans	Granby	Municipal Road Erosion Inventory	Roads	FTF	\$5,760
Lemington	VTrans	Lemington	TH 4 Sims Hill Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Maidstone	ANR	Essex County Natural Resources Conservation District	Maidstone Lake Shoreland Erosion Assessment – Project Identification	NR	CWF	\$21,000
Newbury	VTrans	Newbury	Municipal Culvert Inventory	Roads	FTF	\$7,011
Strafford	VTrans	Strafford	Municipal Road Erosion Inventory	Roads	FTF	\$4,746

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

West, Williams, Saxtons, Connecticut Rivers Watershed Summary



State funding awarded in the West, Williams, Saxtons, Connecticut Rivers watershed in SFY 2017, by sector
Total: \$766,312

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the West, Williams, Saxtons, Connecticut Rivers watershed.



AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	NA
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	NA
Number of barnyard/production area practices installed	NA
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	NA
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	NA

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	1
Acres of river corridor conserved through easements	14
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	268
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	15

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	NA

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	0.2
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	3
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	NA

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	NA

West, Williams, Saxtons, Connecticut Rivers Watershed Projects

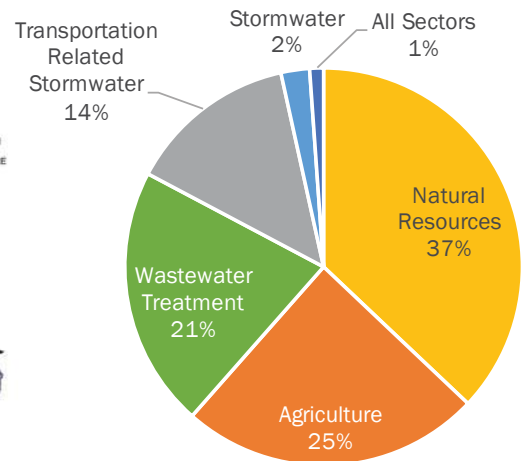
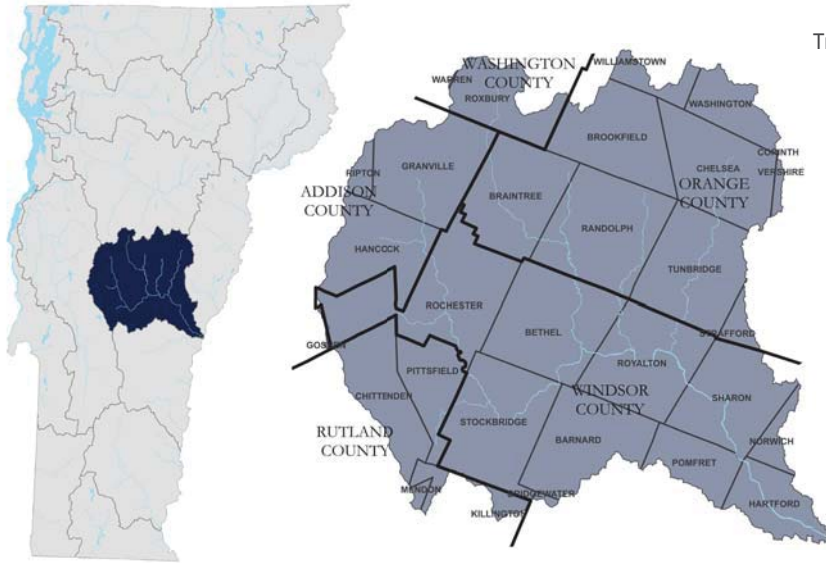


Clean water projects funded by state agencies in SFY 2017 in the West, Williams, Saxtons, Connecticut Rivers watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Andover	ANR	Southern Windsor County Regional Planning Commission	Trout Brook/Andover Branch River Corridor and Floodplain Restoration – Implementation	NR	Capital	\$26,520
Brookline	VTrans	Brookline	TH 10 Grassy Brook Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$20,000
Chester	ANR	Chester	Chester Wastewater Treatment Asset Management Program Implementation	WW	CWF	\$20,000
Chester	ANR	Vermont River Conservancy	Williams River Corridor Easement Design	NR	CWF	\$6,300
Chester	VTrans	Chester	Municipal Roads Culvert Upgrade	Roads	FTF	\$300,000
Grafton	ANR	Vermont River Conservancy	Saxtons River Corridor Easement (Kissel Property) – Implementation	NR	Capital	\$21,000
Grafton	ANR	Vermont River Conservancy	Saxtons River Tributary Corridor Easement Design (Howe, Willie, and Stiles Brooks)	NR	CWF	\$2,000
Grafton	VTrans	Grafton	Municipal Road Erosion Inventory	Roads	FTF	\$8,000
Jamaica	ANR	Connecticut River Conservancy	Winhall River Riparian Buffer Restoration/Planting – Implementation	NR	Capital	\$3,000
Londonderry	VTrans	Londonderry	TH 51 Gooddaleville Road – Municipal Roads Erosion Control	Roads	CWF	\$7,141
Ludlow	VTrans	Ludlow	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$7,332
Putney	ANR	Putney	Putney Wastewater Treatment Facility and Collection System Refurbishment – Preliminary Design	WW	CWSRF	\$27,250
Stratton	VTrans	Stratton	Municipal Culvert and Road Erosion Inventory	Roads	FTF	\$8,000
Townshend	VTrans	Townshend	TH 32 Plumb Hill Road – Municipal Roads Erosion Control and Correction of Slope Erosion	Roads	CWF	\$11,410
Townshend	VTrans	Townshend	Municipal Road Erosion Inventory	Roads	FTF	\$8,000
Westminster	VTrans	Westminster	Municipal Road Erosion Inventory	Roads	FTF	\$8,000
Weston	VTrans	Weston	TH 2 Lawrence Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$6,766
Windham	VTrans	Windham	Municipal Road Erosion Inventory	Roads	FTF	\$7,680
Winhall	VTrans	Winhall	TH 2 Winhall Hollow Road – Municipal Roads Culvert Upgrade	Roads	CWF	\$10,794

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

White River Watershed Summary



State funding awarded in the White River watershed in SFY 2017, by sector
Total: \$1,022,472

STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the White River watershed.

AGRICULTURE PROJECT RESULTS

Acres of cropland and pasture treated by annual conservation practices	NA
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	11
Number of barnyard/production area practices installed	11
Acres of water quality protections within conserved agricultural lands	2

TOTAL PHOSPHORUS REDUCED (kilograms per year)

Annual agricultural conservation practices	NA
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	No data

NATURAL RESOURCES PROJECT RESULTS

Acres of forested riparian buffer restored through buffer planting	NA
Acres of river corridor conserved through easements	32
Acres of floodplain restored	NA
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	98
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	10

TOTAL PHOSPHORUS REDUCED (kilograms per year)

Forested riparian buffer restoration on non-agricultural lands	No data
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TRANSPORTATION RELATED STORMWATER PROJECT RESULTS

Miles of municipal road drainage improvements	0.1
Number of municipal road drainage structures installed	0
Number of municipal road drainage and stream culverts replaced	14
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)

Road erosion control practices	No data
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PROJECT RESULTS: STORMWATER

Acres of impervious surface treated	NA
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TOTAL PHOSPHORUS REDUCED (kilograms per year)

Stormwater treatment practices	NA
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White River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the White River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Barnard	VTrans	Barnard	TH 28 Fort Defiance Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$8,690
Bethel	ANR	Bethel	Bethel Wastewater Treatment Asset Management Program Implementation	WW	CWF	\$23,900
Bethel	VTrans	Bethel	Municipal Road Erosion Inventory	Roads	VTF	\$4,692
Braintree	VTrans	Braintree	TH 4 Thayer Brook Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$37,103
Braintree, Brookfield, Randolph	ANR	Two Rivers-Ottawaquechee Regional Commission	Ayers Brook River Corridor Design and Landowner Outreach	NR	CWF	\$11,259
Chelsea	AAF	Sweet Doe Dairy LLC	Waste Storage Structure	Ag	Capital	\$8,000
Hancock	ANR	White River Partnership	Upper White River Corridor Easement and Buffer Restoration/Planting (Millard Property) – Implementation	NR	CWF	\$56,704
Hartford	ANR	Hartford	Hartford Wastewater Treatment Asset Management Program Implementation	WW	CWF	\$30,000
Randolph	AAF	Beidler Family Farm	Waste Transfer	Ag	Capital	\$10,000
Randolph	ANR	Two Rivers-Ottawaquechee Regional Commission	Randolph Stormwater Master Plan – Project Identification	SW	CWF	\$19,130
Randolph	ANR	Vermont Land Trust	Second Branch White River Corridor Easement (Wortman Farm) – Implementation	NR	CWF	\$38,463
Randolph	ANR	White River Partnership	Partner Water Quality Monitoring Pre-and-Post Project Implementation – White River Second Branch	All	CWF	\$2,514
Rochester	ANR	Rochester	Rochester Wastewater Treatment Facility Refurbishment – Final Design	WW	CWSRF	\$11,068
Rochester	VTrans	Rochester	Municipal Culvert Inventory	Roads	FTF	\$8,000
Roxbury	VTrans	Central Vermont Regional Planning Commission	Municipal Road Erosion Inventory	Roads	VTF	\$4,594
Royalton	ANR	Royalton	Royalton Wastewater Treatment Facility Refurbishment – Final Design	WW	CWSRF	\$152,200
Sharon	VHCB	The Nature Conservancy	White River Ledges - Schindler Tract Addition with Riparian Protection and Public Access	NR	Capital	\$119,500
Sharon	VTrans	Sharon	TH 12 Cross Road – Municipal Roads Culvert Upgrade	Roads	CWF	\$6,190
Stockbridge	ANR	White River Partnership	Middle White River Corridor Easement (Hull Property) – Implementation	NR	Capital	\$35,671
Stockbridge	ANR	White River Partnership	Middle White River Corridor Easement (Freund/Finn Property) – Implementation	NR	CWF	\$70,391
Stockbridge	VTrans	Stockbridge	TH 54 Stockle Drive – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$7,822
Stockbridge	VTrans	Stockbridge	TH 51 & TH 35 Driscolls Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$27,097
Stockbridge	VTrans	Stockbridge	Municipal Road Erosion Inventory	Roads	FTF	\$4,998

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

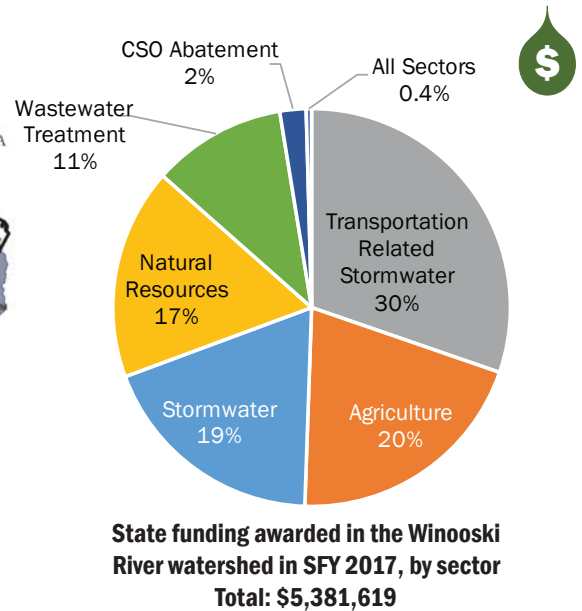
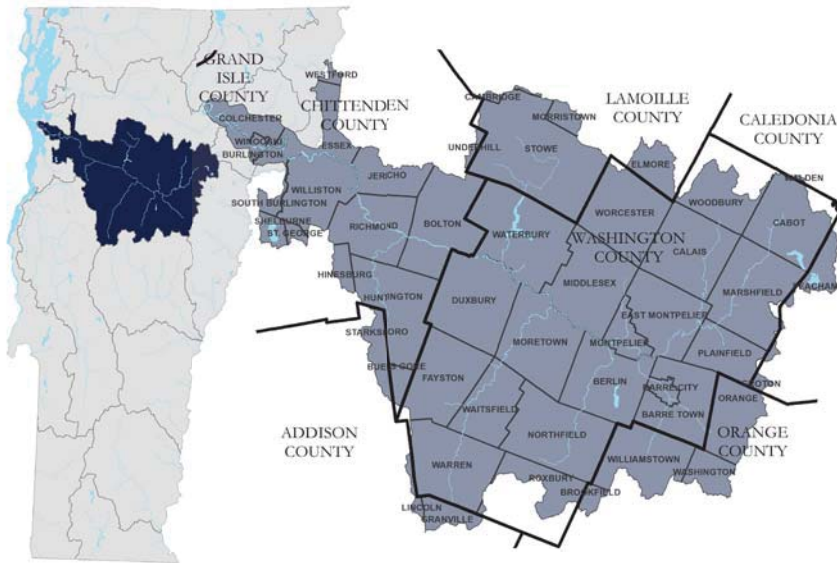
White River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the White River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Tunbridge	AAFM	Chapman, Randall	Forested Riparian Buffer Restoration	Ag	Capital	\$372
Tunbridge	AAFM	Chapman, Randall	Forested Riparian Buffer Restoration	Ag	Capital	\$936
Tunbridge	ANR	Vermont Land Trust	Chapman Farm River Corridor Easement – Implementation	NR	CWF	\$39,186
Tunbridge	VHCB	Vermont Land Trust	Chapman-Howe Farm Agricultural Easement with Riparian Buffers	Ag	Capital, Other	\$154,000
Tunbridge	VTrans	Tunbridge	TH 4 Monarch Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$19,256

Winooski River Watershed Summary



STATE FUNDS AWARDED IN SFY 2017

RESULTS OF PROJECTS COMPLETED IN SFY 2017

Results of projects completed in SFY 2017, by sector, in the Winooski River watershed.

AGRICULTURE PROJECT RESULTS	
Acres of cropland and pasture treated by annual conservation practices	453
Acres of cropland and pasture treated by crop rotation and associated practices	NA
Acres of cropland and pasture treated by forested buffers	46
Number of barnyard/production area practices installed	5
Acres of water quality protections within conserved agricultural lands	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Annual agricultural conservation practices	117
Agricultural crop rotation and associated practices	NA
Forested riparian buffer restoration on agricultural lands	18

NATURAL RESOURCES PROJECT RESULTS	
Acres of forested riparian buffer restored through buffer planting	8
Acres of river corridor conserved through easements	51
Acres of floodplain restored	2
Stream miles enhanced and reconnected due to dam removal (also supports aquatic organism passage)	NA
Acres protected for public access, recreation, forest conservation, and water quality	NA
Acres of water quality protections within conserved land (forested buffer area and wetland protection zones)	NA

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Forested riparian buffer restoration on non-agricultural lands	11

TRANSPORTATION RELATED STORMWATER PROJECT RESULTS	
Miles of municipal road drainage improvements	1
Number of municipal road drainage structures installed	NA
Number of municipal road drainage and stream culverts replaced	6
Stream miles enhanced and reconnected due to replaced stream culverts (also supports aquatic organism passage)	2

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Road erosion control practices	5

PROJECT RESULTS: STORMWATER	
Acres of impervious surface treated	11

TOTAL PHOSPHORUS REDUCED (kilograms per year)	
Stormwater treatment practices	8

Winooski River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Winooski River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Barre City	ANR	Barre City	Gunners Brook Floodplain Restoration – Implementation	NR	CWF	\$100,000
Barre City	ANR	Barre City	City of Barre Vacuum Sweeper Equipment	Roads	CWF	\$260,750
Barre City	ANR	Barre City	City of Barre Vactor Equipment	Roads	CWF	\$340,620
Barre City	ANR	Barre City	Edgewood Brook/Park-Winter Meadow Neighborhood, Barre City Stormwater Treatment – Implementation	SW	CWF	\$36,978
Barre Town	VTrans	Barre Town	TH 36 Nuisl Road – Municipal Roads Erosion Control	Roads	VTF	\$19,172
Berlin	AAFM	Rogers Farmstead LLC	Use Exclusion	Ag	Capital	\$3,000
Berlin	AAFM	Rogers Farmstead LLC	Additional Conservation Practices	Ag	Capital	\$8,387
Berlin	AAFM	Rogers Farmstead LLC	Waste Transfer	Ag	Capital	\$11,250
Bolton	VTrans	Chittenden County Regional Planning Commission	Municipal Road Erosion Inventory	Roads	CWF	\$3,000
Calais	ANR	Vermont Land Trust	Pekin Brook River Corridor Easement (Armstrong Farm) – Implementation	NR	Capital	\$23,800
Calais	VHCB	Vermont Land Trust	Armstrong (Betit) Farm Agricultural and River Corridor Easement	Ag	Capital, Other	\$130,609
Calais	VTrans	Calais	TH 28 Apple Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$7,228
Calais	VTrans	Calais	TH 33 Jack Hill Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	VTF	\$7,252
Calais	VTrans	Calais	TH 27 Apple Hill Road – Municipal Roads Culvert Upgrade	Roads	VTF	\$39,695
Colchester	AAFM	Cottonwood Stables, LLC	Forested Riparian Buffer Restoration	Ag	Capital	\$2,496
Colchester	AAFM	Cottonwood Stables, LLC	Forested Riparian Buffer Restoration	Ag	Capital	\$7,887
Colchester	AAFM	Fitzgerald Farm 1	Use Exclusion	Ag	Capital	\$1,800
Colchester	AAFM	Fitzgerald Farm 1	Heavy Use Area Protection	Ag	Capital	\$3,600
Duxbury	ANR	Friends of The Mad River	Lozelle Brook/Harwood Union Middle and High School, Duxbury Stormwater Treatment – Implementation	SW	Capital	\$29,040
Elmore, Worcester	ANR	Vermont River Conservancy	North Branch Cascades Stormwater Mitigation and Pedestrian Trail	NR	Other	\$9,625
Elmore, Worcester	ANR	Vermont River Conservancy	North Branch Winooski River/Route 12, Elmore and Worcester Stormwater Treatment – Final Design	SW	CWF	\$3,000
Essex	ANR	Essex Junction	Indian Brook/Fairview Drive and Main Street, Village of Essex Junction Stormwater Treatment – Implementation	SW	Capital	\$147,854
Essex	VHCB	Vermont Land Trust	Whitcomb II Farmland Agricultural Easement with Riparian Buffers	Ag	Capital, Other	\$639,000
Essex	VTrans	Chittenden County Regional Planning Commission	Municipal Road Erosion Inventory	Roads	CWF	\$8,000

Note: Multi-watershed and statewide projects are listed in separate tables at the end of this appendix.

Winooski River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Winooski River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Fayston, Waitsfield, Warren	ANR	Friends of The Mad River	Mad River/Fayston and Warren Elementary Schools Stormwater Treatment – Preliminary Design	SW	CWF	\$18,685
Huntington	AAFM	Taft's Milk and Maple Farm	Cover Crop	Ag	General	\$5,000
Huntington	VTrans	Chittenden County Regional Planning Commission	Municipal Road Erosion Inventory	Roads	CWF	\$8,000
Huntington	VTrans	Huntington	TH 21 Salvas Road – Municipal Roads Erosion Control	Roads	VTTF	\$20,000
Huntington	VTrans	Huntington	TH 11 Texas Hill Circle – Municipal Roads Culvert Upgrade	Roads	VTTF	\$40,000
Montpelier	ANR	Friends of The Winooski River	Winooski River Illicit Discharge Detection and Elimination Water Quality Monitoring	SW	CWF	\$2,610
Montpelier	ANR	Montpelier	Montpelier Riparian Buffer Restoration	NR	Other	\$8,700
Montpelier	ANR	Montpelier	Stevens Branch Winooski River/Route 302 and Berlin Street, Montpelier Stormwater Treatment – Final Design	SW	Capital	\$42,000
Montpelier	ANR	Montpelier	Montpelier Wastewater Collection System and Combined Sewer Overflow Abatement – Preliminary Design	SW, CSO	CWSRF	\$29,616
Montpelier	ANR	Montpelier	Montpelier Wastewater Collection System Refurbishment – Construction	WW	CWSRF	\$36,680
Montpelier	ANR	Montpelier	Montpelier Wastewater Treatment Facility Refurbishment – Preliminary Design	WW	CWSRF	\$51,300
Montpelier	VTrans	Central Vermont Regional Planning Commission	Municipal Culvert and Road Erosion Inventory	Roads	CWF	\$8,000
Moretown	ANR	Central Vermont Regional Planning Commission	Mad River Corridor Plan – Project Identification	NR	CWF	\$27,878
Moretown	VTrans	Moretown	TH 55 Williams Road – Municipal Roads Erosion Control	Roads	CWF	\$16,466
Northfield	ANR	Central Vermont Regional Planning Commission	Dog River/Union and Water Street, Northfield Stormwater Treatment – Implementation	SW	Capital	\$173,785
Northfield	ANR	Friends of The Winooski River	Dog River Floodplain Restoration – Implementation	NR	Capital	\$242,039
Northfield	ANR	Northfield	Northfield Hydroseeder Equipment	Roads	CWF	\$6,628
Orange	VTrans	Orange	TH 39 Manning Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Richmond	ANR	Chittenden County Regional Planning Commission	Richmond Stormwater Master Plan – Project Identification	SW	CWF	\$39,086
Richmond	VTrans	Chittenden County Regional Planning Commission	Municipal Road Erosion Inventory	Roads	CWF	\$8,000

Winooski River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Winooski River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Roxbury	VTrans	Roxbury	TH 14 Cruickshank Road – Correction of Stream Bank Erosion	Roads	CWF	\$14,066
South Burlington	AAFM	Ethan Allen Farm	Clean Water Diversion	Ag	Capital	\$22,500
South Burlington	AAFM	Ethan Allen Farm	Waste Transfer	Ag	Capital	\$22,500
South Burlington	VTrans	South Burlington	Picard Circle Stormwater Treatment Design and Construction	Roads	FTF	\$229,600
St. George	VTrans	Chittenden County Regional Planning Commission	Municipal Road Erosion Inventory	Roads	CWF	\$2,000
Stowe	AAFM	Percy, Paul	Cover Crop	Ag	General	\$1,356
Stowe	ANR	Stowe	West Branch Little River/Stowe Bike Path Floodplain Restoration – Implementation	NR	Capital	\$276,547
Stowe	VTrans	Stowe	TH 95 River Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$17,440
Stowe	VTrans	Stowe	TH 95 River Road – Correction of Stream Bank Erosion	Roads	CWF	\$19,640
Waitsfield	AAFM	Neill Farm LLC	Cover Crop	Ag	General	\$2,985
Waitsfield	VTrans	Waitsfield	TH 28 Palmer Hill Road – Municipal Roads Erosion Control	Roads	CWF	\$12,500
Warren	AAFM	DeFreest Farms Partnership	Cover Crop	Ag	General	\$5,000
Warren	ANR	Warren	Mad River/Fuller Hill Road, Warren Stormwater Treatment – Preliminary Design	SW	Capital	\$9,600
Warren	VTrans	Central Vermont Regional Planning Commission	Municipal Road Erosion Inventory	Roads	VTF	\$6,660
Warren	VTrans	Warren	TH 9 Airport Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Warren	VTrans	Warren	TH 1 Brook Road – Correction of Slope Erosion	Roads	CWF	\$30,000
Warren	VTrans	Warren	TH 1 Brook Road – Municipal Roads Culvert Upgrade	Roads	CWF	\$40,000
Warren	VTrans	Warren	Municipal Culvert and Road Erosion Inventory	Roads	VTF	\$6,661
Waterbury	ANR	Vermont River Conservancy	Thatcher Brook River Corridor Easement (Roscioli Property) – Implementation	NR	Capital	\$45,800
Waterbury	ANR	Vermont River Conservancy	Thatcher Brook River Corridor Easement Design	NR	CWF	\$5,750
Waterbury	VTrans	Waterbury	TH 31 Hubbard Farm Road – Municipal Roads Erosion Control and Culvert Upgrade	Roads	CWF	\$40,000
Watershed-wide	ANR	Central Vermont Regional Planning Commission	Mad River and Kingsbury Branch Stormwater Master Plan – Project Identification	SW	CWF	\$140,530
Watershed-wide	ANR	Friends of The Mad River	Riparian Education for Landowners along the Mad River	All	Other	\$4,945
Watershed-wide	ANR	Friends of The Winooski River	Riparian Restoration along the Winooski River	NR	Other	\$10,000

Winooski River Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in the Winooski River watershed.

TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Watershed-wide	ANR	Winooski Natural Resources Conservation District	Winooski River Riparian Buffer Restoration/Planting – Implementation	NR	Capital	\$18,050
Westford	VHCB	Vermont Land Trust	Westford Town Forest with Wetland/Riparian Protection	NR	Capital, Other	\$150,000
Williston	ANR	Williston	Allen Brook Wayside Interpretive Exhibit	All	Other	\$4,800
Williston	ANR	Williston	Winooski River/Fontaine Lane and North Williston Road, Williston Roadside Erosion Control – Implementation	Roads	Capital	\$18,130
Williston	ANR	Williston	Muddy Brook/Blackberry Ridge and Walker Hill Road, Williston Streambank Erosion Control – Implementation	Roads	Capital	\$19,782
Williston	ANR	Williston	Williston Wastewater Collection System Refurbishment – Construction	WW	CWSRF	\$132,292
Williston	VTrans	Chittenden County Regional Planning Commission	Municipal Road Erosion Inventory	Roads	CWF	\$8,000
Williston	VTrans	Williston	TH 23 East Hill Road – Municipal Roads Erosion Control	Roads	CWF	\$20,000
Williston	VTrans	Williston	Lamplite Acres Stormwater Treatment Design and Construction	Roads	FTF	\$300,000

Multi-Watershed Projects



Clean water projects funded by state agencies in SFY 2017 the Connecticut River basin.

AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
AAFM	Caledonia County Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Essex County Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Ottawaquechee Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	White River Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Windham County Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000

Clean water projects funded by state agencies in SFY 2017 the Lake Champlain basin.

AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
AAFM	Franklin County Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Grand Isle Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
ANR	Vermont Public Broadcasting Service	Keeping Lake Champlain Great documentary	All	Other	\$5,000
ANR	Vermont Rural Water Association	Municipal Wastewater Treatment Facility Technical Assistance to Optimize for Nutrient Treatment	WW	CWF	\$103,000
AAFM	Farmers Watershed Alliance	Farm Mentorship Program	Ag	CWF	\$19,968
AAFM	Friends of Northern Lake Champlain	Organizational Capacity Building Grant	Ag	CWF	\$20,000
AAFM	Missisquoi River Basin Association	Organizational Capacity Building Grant	Ag	CWF	\$10,360
AAFM	Missisquoi River Basin Association	Soil Health Seminars	Ag	CWF, General	\$4,700
AAFM	Multiple Partners	Environmental Quality Incentives Program State Cost Share	Ag	CWF	\$447,034
AAFM	Newtrient, LLC	Strategic Pathway for Inducing Phosphorus Control Technologies	Ag	CWF	\$160,000
AAFM	Lamoille County Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Rutland Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Otter Creek Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Poultney Mettowee Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Winooski Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000

Multi-Watershed Projects



Clean water projects funded by state agencies in SFY 2017 in multiple watersheds.

WATERSHEDS	TOWN	AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
Batten Kill- Walloomsac-Hoosic Deerfield-Connecticut Direct West-Williams- Saxtons	Sunderland	ANR	Bennington County Regional Commission	Sunderland Stormwater Master Plan – Project Identification	SW	CWF	\$24,000
Deerfield-Connecticut Direct West-Williams- Saxtons	Dover	ANR	North Branch Fire District #1	North Branch Fire District #1 Wastewater Treatment Facility Refurbishment – Final Design	WW	CWSRF	\$280,098
Lake Memphremagog Lamoille Passumpsic Stevens-Wells-Waits- Ompompanoosuc Upper Connecticut River	Caledonia, Essex, and Lamoille Counties	ANR	Lamoille County Conservation District	Regional Hydroseeder Equipment-Share Program	Roads	CWF	\$115,100
Northern Lake Champlain Winooski	Burlington	ANR	Burlington	Burlington Wastewater Collection System Refurbishment and Stormwater Treatment – Preliminary Design	WW, SW	CWSRF	\$997,204
Northern Lake Champlain Winooski	Burlington	ANR	Burlington	Burlington Wastewater Treatment Facility, Collection System, and Stormwater Integrated Planning – Preliminary Design	WW, SW, CSO	CWSRF	\$600,000
Northern Lake Champlain Winooski	Colchester, Essex	ANR	Winooski Natural Resources Conservation District	Partner Water Quality Monitoring Pre-and-Post Project Implementation – Alder, Indian, Sunderland Brooks	All	CWF	\$8,111
Missisquoi Northern Lake Champlain Winooski	Franklin, Highgate, St. Albans Town	ANR	University of Vermont Extension	Equipment to Enhance the Water Quality Benefit of Cover Crops	Ag	Capital	\$99,554
Ottauquechee-Black Stevens-Wells-Waits- Ompompanoosuc White	Fairlee, Randolph	ANR	Two Rivers- Ottauquechee Regional Commission	Municipal Outreach on Roadside Ditch Management	NR	Other	\$5,000

Multi-Watershed Projects



Clean water projects funded by state agencies in SFY 2017 the Connecticut River basin.

AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
AAFM	Caledonia County Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Essex County Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Ottauquechee Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	White River Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000
AAFM	Windham County Natural Resources Conservation District	Agricultural Conservation Practices Technical Assistance	Ag	General	\$6,000

Statewide Watershed Projects



Statewide clean water projects funded by state agencies in SFY 2017.

AGENCY	PARTNER	SUMMARY TITLE	SECTOR	FUNDING SOURCE	AMOUNT
AAFM	Champlain Valley Farmer Coalition	On-Farm Workshops and Farmer Follow-up	Ag	CWF	\$18,606
AAFM	Farmer's Watershed Alliance	Comprehensive Precision Agriculture Forum	Ag	CWF, General	\$19,878
AAFM	Natural Resources Conservation Council	Block Grant (Organizational Development, Education and Outreach, Nutrient Pollution Controls)	Ag	CWF, General	\$260,778
AAFM	Natural Resources Conservation Council	Agricultural Conservation Practices Technical Assistance (Capacity and Oversight)	Ag	General	\$103,000
AAFM	Scott Magnan's Custom Service	Precision Agricultural Management	Ag	CWF, General	\$18,750
AAFM	University of Vermont Extension	Block Grant (Organizational Development, Education and Outreach, Nutrient Pollution Controls)	Ag	CWF, General	\$462,770
AAFM	University of Vermont Extension	Education and Outreach	Ag	General	\$9,500
AAFM	University of Vermont Extension	Agricultural Conservation Practices Technical Assistance	Ag	General	\$26,125
AAFM	Vermont Association of Conservation Districts	Education and Outreach	Ag	General	\$1,000
AAFM	Vermont Association of Conservation Districts	Land Treatment Planning to Support NMP Development	Ag	General	\$119,680
AAFM	Vermont Grass Farmers Association	Strengthening Vermont's Network of Grass-Based Farmers to Protect Soil and Water	Ag	CWF	\$18,634
AAFM	Vermont Grass Farmers Association	Grass-Based Farming Education and Outreach	Ag	CWF, General	\$17,294
ANR	Beck Pond LLC	LaRosa Laboratory Partner Water Quality Monitoring Analytical Support	All	CWF	\$11,195
ANR	Multiple Partners	Citizen Science Volunteer Monitoring Water Quality Sampling LaRosa Laboratory Analysis	All	CWF	\$100,000
ANR	South Mountain Research and Consulting	LaRosa Laboratory Partner Water Quality Monitoring Analytical Support	All	CWF	\$18,922
ANR	Stone Environmental	Development of Methodologies for Identifying Subsurface Tile Drains on Agricultural Lands	Ag	CWF	\$9,926
ANR	Vermont Department of Forests, Parks and Recreation	Vermont State Parks Lake Shoreland Erosion Control - Implementation	NR	Capital	\$71,472
ANR	Vermont Department of Forests, Parks and Recreation	Acceptable Management Practices for Water Quality on Logging Jobs Manual Design and Editing	NR	CWF	\$20,000
ANR	Vermont Youth Conservation Corps	Clean Water Projects Planning and Implementation Work Crew (Vermont Youth Conservation Corps)	Roads	CWF	\$189,399
ANR	Vital Communities	Watershed Education in the White River Watershed	All	Other	\$5,000
ANR	Watershed Consulting Associates, LLC	Statewide Illicit/Unauthorized Discharge Detection and Elimination	SW	CWF	\$69,835