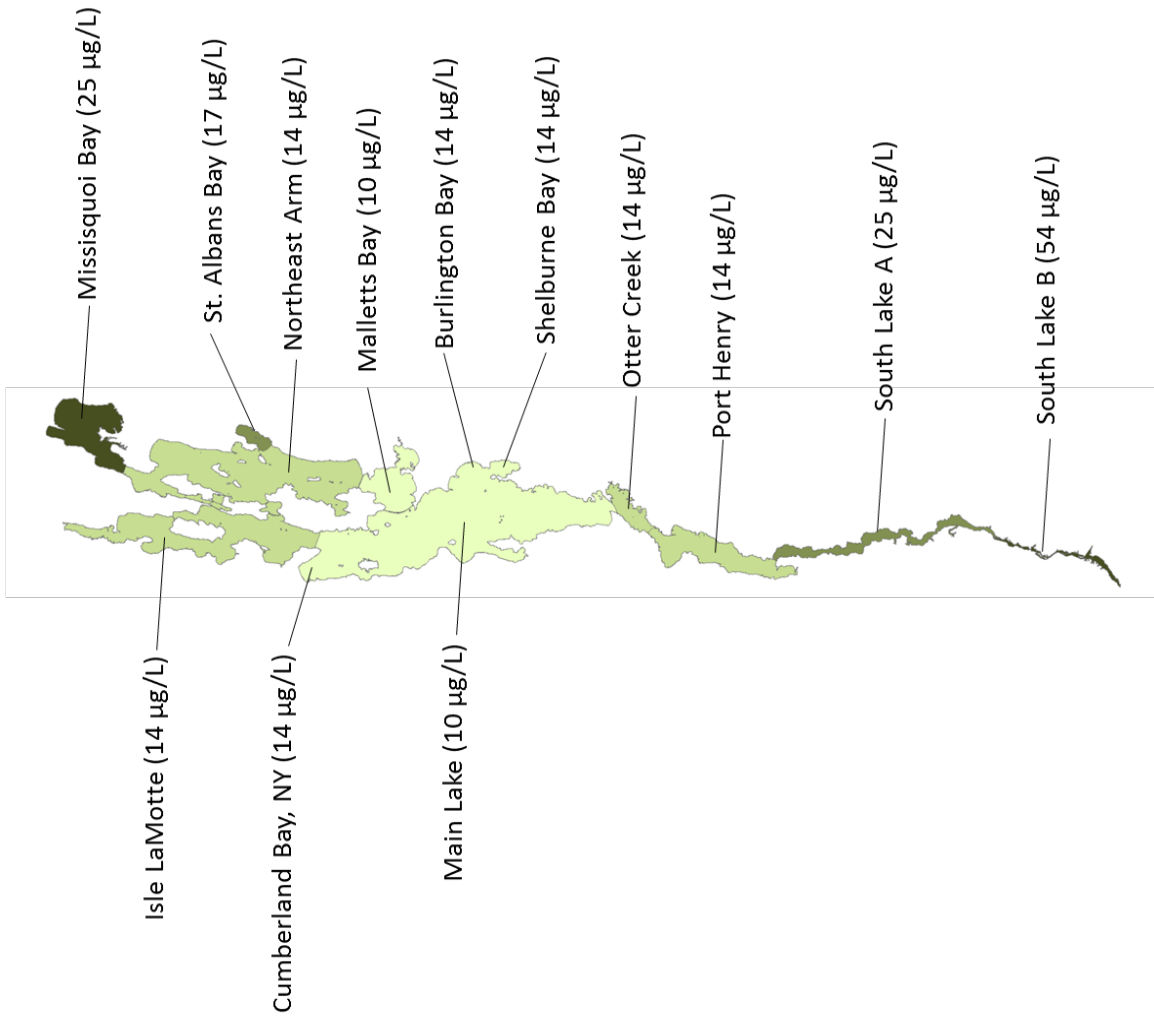
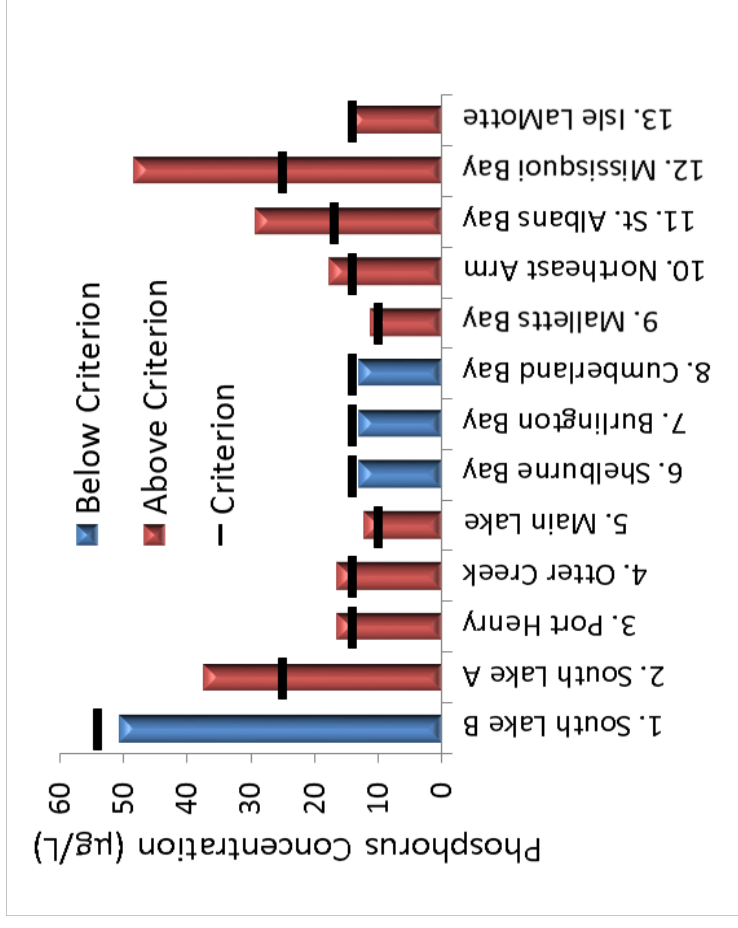


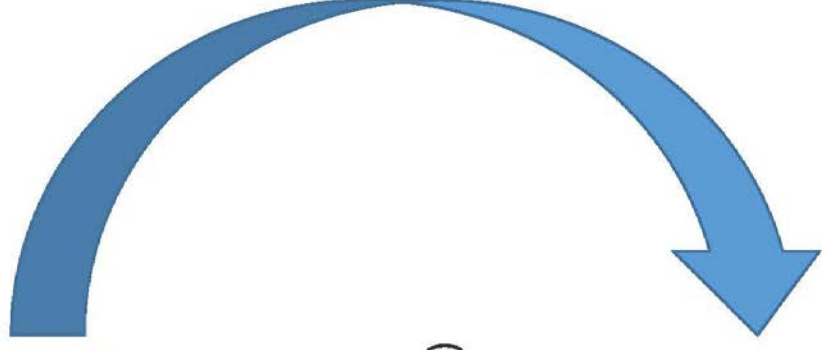
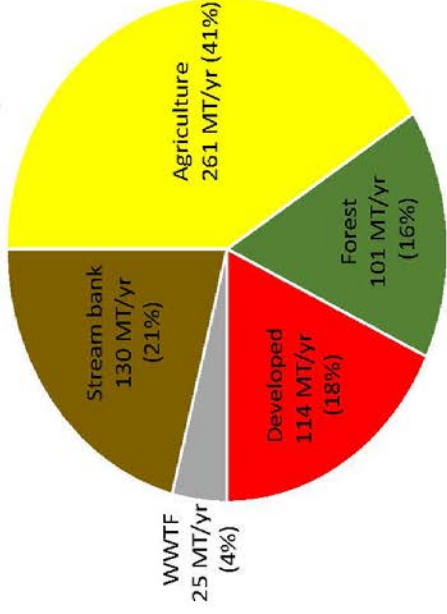
Lake Champlain Phosphorus Management Segments and Vermont Water Quality Standards for Phosphorus



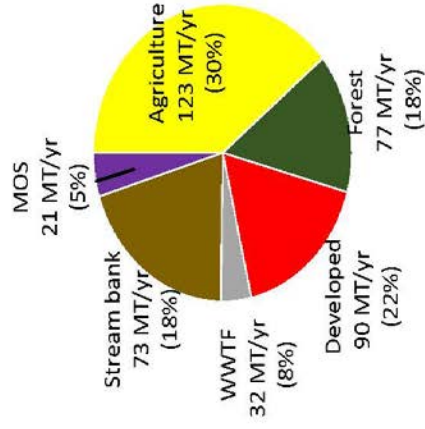
Current Phosphorus Concentrations



Base Load 631 Metric Tons/year



Vermont Reduction
Required=213 mt/yr (34%)



TMDL Loading Capacity and Allocations
418 Metric Tons/yr

Act 64 and Lake Champlain Phosphorus TMDL Phase I Plan Deliverables

*** The light blue-shaded tasks are milestones specified in the Lake Champlain TMDLs Accountability Framework*

COMPLETED Clean Water Initiative Deliverables

AGENCY	KEY TASK	DEADLINE	UPDATE	RECURRING?
ANR/DEC, AAFM	Report to Legislature on the execution of the Phase I Implementation Plan for the Lake Champlain TMDL	Act 64: 1/15/2017	-Completed & integrated into the Clean Water Initiative Annual Investment Report (12/30/2016); -Integrating update in FY2017 Report (Deadline: 1/15/2018)	1/15/2017, and every four years thereafter
ANR/DEC, AAFM	ANR and AAFM shall each develop three performance measures relating to new Memorandum of Understanding (MOU)	Act 64: 7/1/2016	-Legislative Report with performance measures	No
AAFM, ANR/DEC	Report to Legislature on meeting agricultural nonpoint source pollution MOU performance measures	Act 64: 1/15/2017	-Legislative Report with performance measures	1/15/2017 and annually thereafter
ANR/DEC	Issue Municipal Roads General Permit	Champlain TMDL deadline: 12/30/2017	- Completed 1/31/2018	No
ANR/DEC	Update existing regulated municipal MS4 General Permit to include Phosphorus Control Plan requirements that are consistent with the TMDLs' targets	Champlain TMDL deadline: 12/30/2017	--Stakeholder process held in 2017; - Issued new MS4 General Permit 7/27/2018	No
ANR/DEC	Develop Clean Water Fund budget	June, 2018	-FY18 appropriated; -FY19 budget proposed as part of state budget process; -Next step: Legislative budget approval and appropriations process -Target Date: 7/1/2018	Annually
ANR/DEC	Develop Stormwater Management Practices Handbook for sub-jurisdictional activities	Act 64: 1/1/2016	-Completed web-based materials and hard copy; -Target Date to publish handbook with updated photos: 7/1/2018	No
ANR/DEC, AAFM	Document methodologies used to estimate pollutant load reductions	No deadline	-Summarized in Vermont Clean Water Initiative 2018 Investment Report Appendix C (January 15, 2019) ; -TMDL progress report methodology document target date: 7/1/2019	Ongoing

AGENCY	KEY TASK	DEADLINE	UPDATE	RECURRING?
ANR/FPR	Revise by rule the Acceptable Management Practices for Maintaining Water Quality on Logging Jobs (Act 64, Sec. 49)	Champlain TMDL deadline: 12/30/2016	-Initial update completed and in effect on 10/22/2016; -Undergoing second rule-making for small modifications; -New Target Completion Date: 7/1/2018; -Following rule-making, Target Completion Date for publishing AMP guide: 8/31/2017	No
AAFM	Target funding for agricultural BMP and Nutrient Management Plan implementation for Missisquoi Bay, St. Albans Bay & South Lake	Champlain TMDL deadline to begin work: 12/30/2017	- Inspections, Revised Secretary's Decision (RSD) and federal priorities have led to increase in conservation practice enrollment through cost-share programs - AAFM has contracted with 3 organizations to provide case management for farms in the Missisquoi and St. Albans Bays, leading to increased enrollment in conservation cost-share programs in these areas - AAFM has given priority to all three of these watersheds in the new Ag-CWIP grant program, launched in 2017	On-going
AAFM	Complete education, outreach & compliance activities with farms in the Missisquoi Bay watershed per Section II,6 of Secretary of AAFM 2/3/2016 decision	Champlain TMDL Deadline: 12/30/2017	-AAFM is working with CLF to ensure the effort is aligned with the RSD	On-going per RSD
AAFM	Commence notification of affected farms about the Assessment and Plan process, per Section II,6 of Secretary of AAFM 2/3/2016 decision (RSD)	Champlain TMDL Deadline: 12/30/2017	AAFM completed outreach in Missisquoi Bay and is continuing with technical assistance	Ongoing per RSD
AAFM	Revise RAPs to include requirements to reduce nutrient pollution from tile drains and other priority actions (Act 64, Sec. 4)	Act 64: 1/15/2018	- AAFM revisions to RAPs to include tile drain completed November 2018.	No
ANR/DEC	Prepare and maintain management plan to assure that the State is meeting water quality standards and include a schedule for updating basin plans	Schedule: 2015: 2 Plans 2016: 2 Plans 2017: 2 Plans 2018: 3 Plans 2019: 3 Plans 2020: 2 Plans	-Completed tactical basin plans scheduled for 2015, 2016 (Lamoille & Missisquoi) & 2017 (North and South Lake Champlain (LC) Plans); & 2018 (Passumpsic, White, Winooski);	Schedule for issuance of tactical basin plans in Lake TMDL Phase 1 Plan

AGENCY	KEY TASK	DEADLINE	UPDATE	RECURRING?
			-South LC Plan includes Poultney-Mettowee and Lower Champlain basins	

AGENCY	KEY TASK	DEADLINE	UPDATE	RECURRING?
ANR/DEC, AAFM, VTrans, ACCD, Administration	Establish a Clean Water Fund (CWF)	Act 64: 06/16/2015 established Clean Water Fund	-Established Fund in 2015	On-going
AAFM, ANR/DEC	Submit interim progress report to legislature on impacts from tile drainage	Act 64: 1/15/2016	-Report completed	No
ANR/DEC	Report on lowering the impervious surface regulatory permitting threshold from one acre to 1/2 acre	Act 64: 1/15/2016	-Report completed	No
ANR/DEC	Report to Legislature on Basin Planning Progress	Act 64: 1/15/2016	-Report completed	1/15/2016 and annually thereafter
ANR/DEC	Report to Legislature on land application of septage and sludge	Act 64: 1/15/2016	-Report completed	No
ANR/FPR	Report to legislature on recommendation on how to implement forestry AMPs as mandatory practices, how to enforce AMPs, whether maple syrup production should be enrolled in UVA as managed forestland	Act 64: 1/15/2016	-Report completed	No
ANR/DEC	Report on activities and progress of water quality ecosystem restoration programs	Act 64: 2/1/2016	-Report completed	2/1/2016 and annually thereafter
ANR/DEC	Develop TMDL implementation tracking system at ANR/DEC with ability to estimate phosphorus load reductions achieved by TMDL implementation activities	Act 64: 6/1/2016	-Tracking System completed	No
AAFM	As part of the Small Farm Certification Program (CSFO), farms are to certify for compliance with RAPs	Act 64: 7/1/2017	--CSFO program has been created; -More than 330 farms have certified;	7/1/2017 and annually thereafter
ANR/DEC, AAFM	Update Water Quality Standards Anti-Degradation Implementation Rule	Act 64: 7/1/2016	-VT Water Quality Standards rule completed and approved on 11/17/2016;	No

AGENCY	KEY TASK	DEADLINE	UPDATE	RECURRING?
			-VT operating under 2010 VT ANR Interim Anti-Degradation Implementation Procedure	
ANR/DEC, AAFM, VTrans	Develop databases to consistently track TMDL implementation activities achieved through regulatory and funding programs across agencies, and link databases with ANR/DEC TMDL implementation tracking system	Champlain TMDL deadline: 12/30/2016	-Databases completed	No
ANR/DEC	Update Combined Sewer Overflow (CSO) Rule	Champlain TMDL deadline: 12/30/2016	-Rule completed, 2016	No
ANR/DEC, AAFM, VTrans, ANR/FPR	Update Phase 1 Plan to reflect final Lake Champlain Phosphorus TMDL and how basin plans will be used for TMDL implementation and hold 30-day public comment period	Act 64: Three months following release of final TMDL; Deadline: 9/15/2016	-Completed, 9/15/2016	No
AAFM	As part of revisions to Required Agricultural Practices (RAP; formerly "Accepted Agricultural Practices" or AAP), adopt by rule requirements for training classes or programs for farmers	Champlain TMDL deadline: 12/30/2016	-RAPs completed including water quality education credits requirements for farmers; -Effective date: 12/05/2016	No
AAFM	As part of RAP revisions, adopt by rule a custom applicator certification program for operating in VT (Act 64, Sec. 16)	Champlain TMDL deadline: 12/30/2016	-RAPs completed with the adoption of a custom applicator certification program; effective date: 12/05/2016; -Certification trainings held; -Certification due annually	No
AAFM	Adopt small farm certification program (CSFO)	Champlain TMDL deadline: 12/30/2016	-RAPs completed; effective date: 12/05/2016; -CSFO self-certification due on 1/31/2018	Annual recertification required
AAFM	Revise AAPs to improve water quality in the state and implement the small farm certification program	Champlain TMDL deadline: 12/30/2016	-RAPs completed, which revised the AAPs by enhancing water quality protections on agricultural land; -Effective date: 12/05/2016	No
AAFM	Develop a matrix and small farm template for nutrient management planning	Champlain TMDL deadline: 12/30/2016	-RAPs completed; -Effective date: 12/05/2016	No
AAFM	Establish livestock exclusion standards to prevent erosion and water quality impacts (Act 64, Sec. 4)	Champlain TMDL deadline: 12/30/2016	-RAPs completed; -Effective date: 12/05/2016	No

AGENCY	KEY TASK	DEADLINE	UPDATE	RECURRING?
AAFM	Establish a training program and schedule for all farmers to complete training	Champlain TMDL deadline: 12/30/2016	-RAPs completed; -Effective date: 12/05/2016	No
ANR/DEC	Issue TS4 Permit for VTrans State roads and VTrans non-road developed lands	Champlain TMDL deadline: 12/30/2016	-Completed; -Effective date: 12/28/2016	No
ANR/DEC, Office of the State Treasurer	Report to the Legislature on Financing of Statewide Clean Water Improvement (in partnership with Office of State Treasurer, Dept. of Taxes, AAFM, VTrans, ACCD)	Act 64: 1/15/2017	-Held 23 stakeholder and public meetings; -Completed and released on 1/15/2017	No
ANR/DEC, AAFM	Develop ANR/AAFM Memorandum of Understanding (MOU) regarding the concentrated animal feeding operation (CAFO) program and relationship with state large, medium and small farm operations (LFO, MFO and SFO, respectively), enforcement and implementation	Act 64: 7/1/2016	-Integrated three MOUs (CAFO, enforcement, nonpoint source pollution) into one MOU; -MOU completed on 3/17/2017	No
ANR/DEC, AAFM	Develop ANR/DEC and AAFM MOU relating to AAFMS's request to ANR to take enforcement action to enforce 6 V.S.A. Ch. 215.	Act 64: 7/1/2016	-Integrated three MOUs (CAFO, enforcement, nonpoint source pollution) into one MOU; -MOU completed on 3/17/2017	No
ANR/DEC, AAFM	Revise ANR/DEC/AAFM MOU for the agricultural nonpoint source program	Champlain TMDL deadline: 12/30/2016	-Integrated three MOUs (CAFO, enforcement, nonpoint source pollution) into one MOU; -MOU completed on 3/17/2017	No
ANR/DEC	Update Vermont Stormwater Management Manual	Champlain TMDL deadline: 12/30/2016	-Completed; -Manual became effective on 7/1/2017	No
AAFM, ANR/DEC	Submit report to legislature on current scientific research and recommendations to amend RAPs to reduce nutrient contributions from tile drainage	Act 64: 1/15/2017 (Champlain TMDL deadline: 12/30/2017)	-Report completed on 1/31/2017	No

Remaining Clean Water Initiative Deliverables:

AGENCY	KEY TASK	DEADLINE	UPDATE	RECURRING?
ANR/DEC, AAFM, VTrans, ACCD, Administration	Establish long-term revenue source to support water quality improvement via the Clean Water Fund	Champlain TMDL deadline: 12/30/2017	-H518 (2017) extended the CWF funding source (surcharge on property transfer) to 7/1/2027; -Act 84 (2017) included increase in capital funds for clean water through FY2019; -Legislative Report by State Treasurer on clean water funding options completed (1/15/2017); -Legislative Report of the Working Group on WQ Funding completed (11/15/2017); -Legislation required to establish additional revenue sources -Act 208 (2018) established new revenue source abandoned beverage container deposits (i.e., escheats) to the Clean Water Fund estimated to generate \$1.5-2 million annually beginning January 1, 2020; -Governor Scott's proposed SFY 2020 Clean Water Budget directs approximately \$8 million additional to clean water work from the Estate Tax	On-going
ANR/DEC	Adopt rules to manage stormwater runoff, including technical standards and BMPs	12/31/2017	-Draft under development; -Stakeholder process begun in 2017; -LCAR 1/31/2019	No
ANR/DEC	Issue Stormwater general permit for impervious surfaces equal to or greater than three acres	Champlain TMDL deadline: 12/30/2017	Within 120 days after SW rule adoption	No

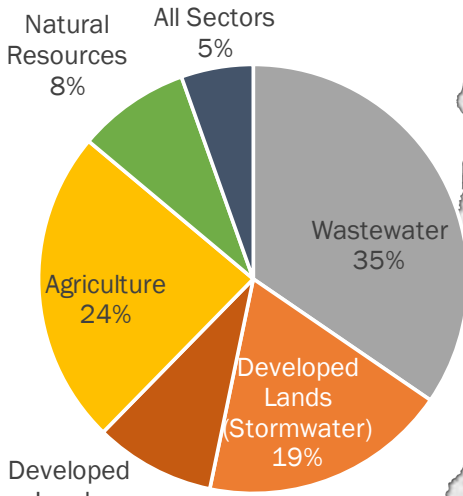
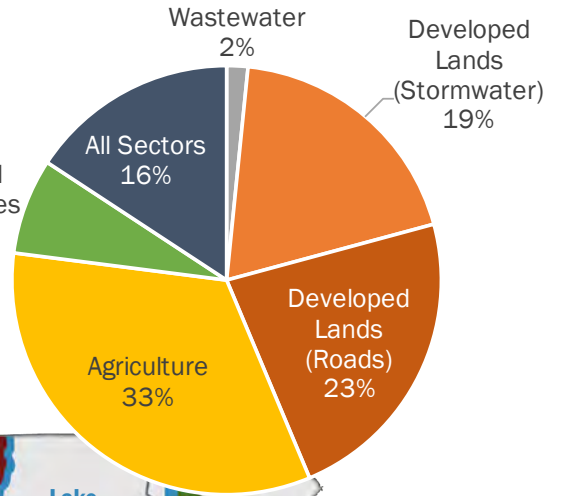
State Investments in Clean Water



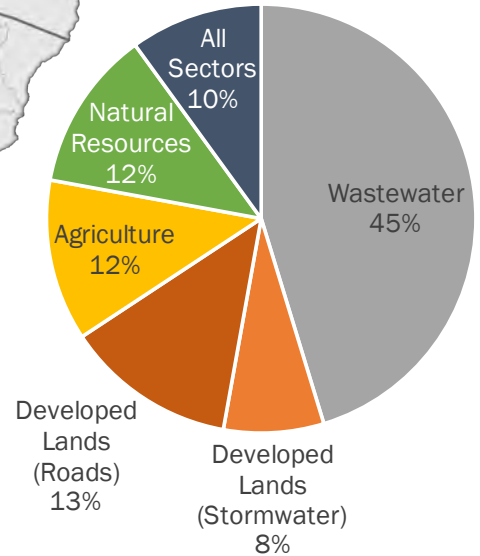
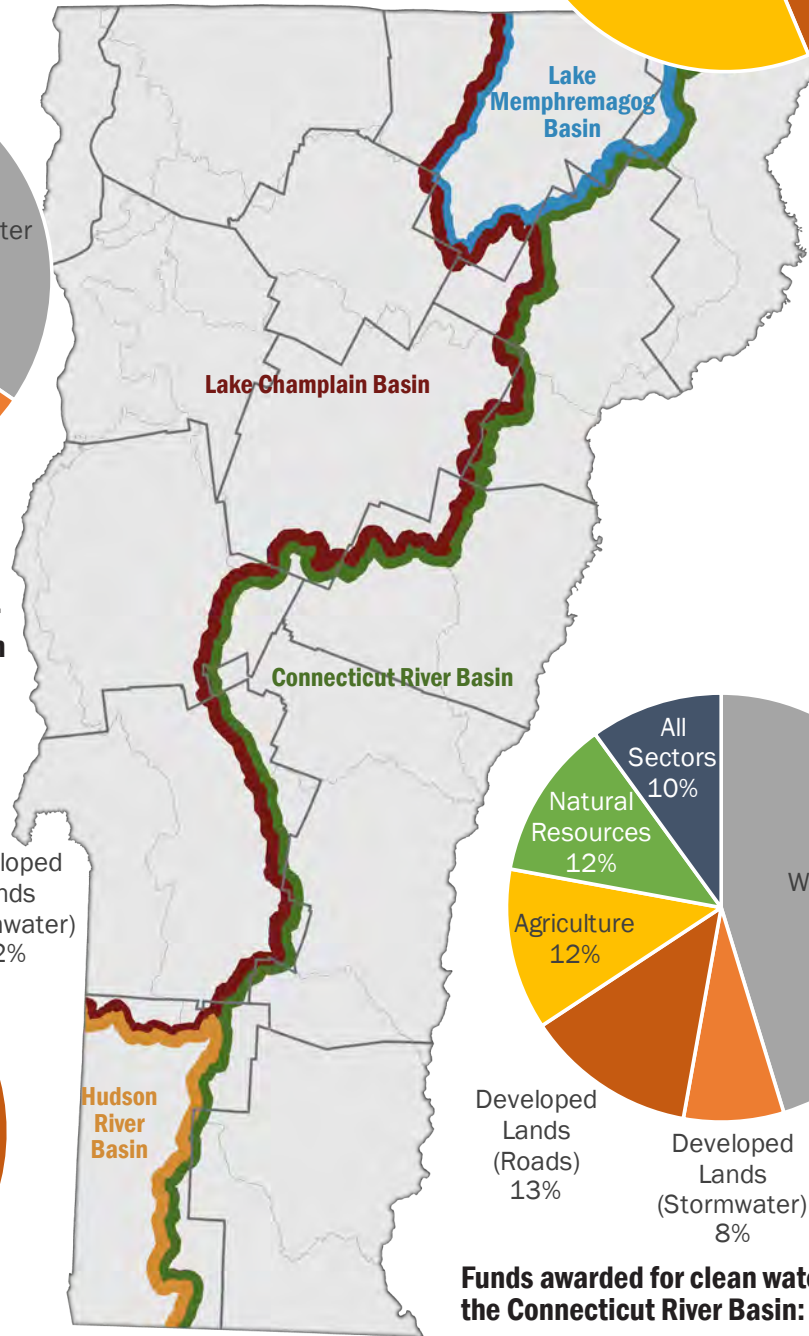
State funding awarded in SFY 2016-2018, by major basin.

260%
Increase in State of Vermont investments in clean water projects since SFY 2016

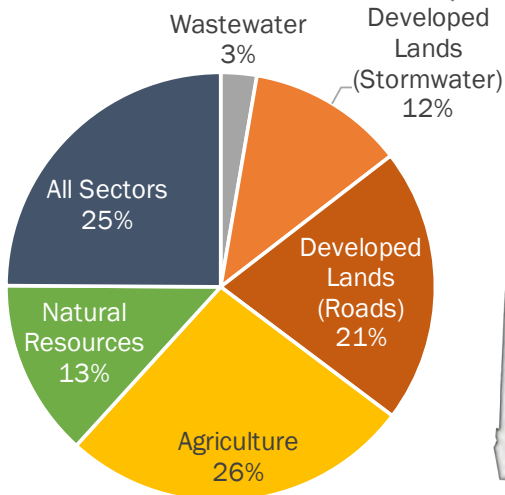
Funds awarded for clean water projects in the Lake Memphremagog Basin: \$2,661,522



Funds awarded for clean water projects in the Lake Champlain Basin: \$66,232,457



Funds awarded for clean water projects in the Connecticut River Basin: \$28,780,176



Funds awarded for clean water projects in the Hudson River Basin: \$1,620,651