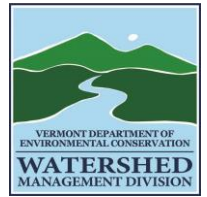


Functions & Values of Wetlands



As much as **90%** of sediments in water may be removed by the filtration by natural wetlands.



43% of rare species in the U.S. rely on wetlands for survival.

80% of US bird species rely on wetlands for breeding habitat

Wetlands host **31%** of the world's plants



Wetlands Every Year:

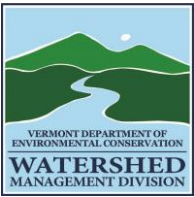
Save Middlebury at least **\$126,000** from potential flood damages



\$590 in flood protection and habitat services with just one acre



\$10 million is generated nationwide from bird photography and observation



Wetland Status and Trends

35% loss of VT wetlands before 1980. Equivalent to the size of Grand Isle County.

Just 4% of VT is wetland

39% of remaining wetland in Vermont is in conserved land.



0.2% decline in vegetated freshwater wetlands between 2004-2009.

Restoring or creating wetland in replacement of wetlands lost isn't working well. Many created wetlands end up as ponds.

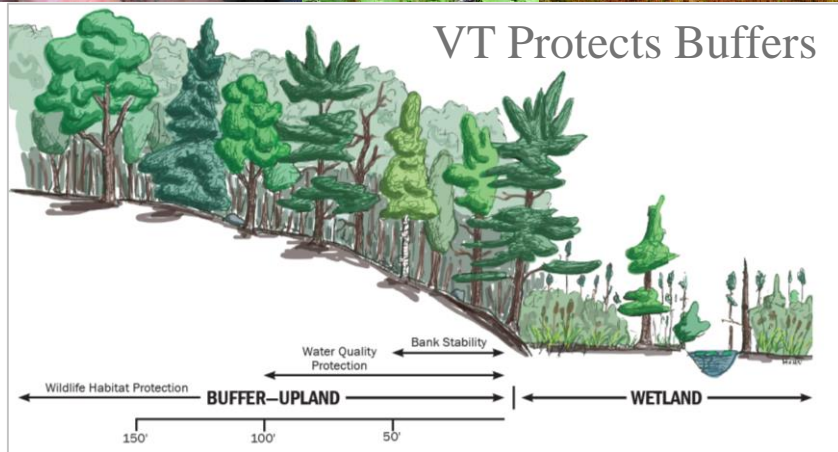
How are our Remaining Wetlands Doing?

Nationally, 48% are in good biological condition, 32% in poor condition.

Generally, there is a higher frequency of good condition wetlands in the Green Mountains and Northeast Kingdom.

Leading problems for remaining wetlands are surface hardening, vegetation removal, ditching, & non-native plants

Fostering our remaining wetlands and restoring those historically lost improves water quality and flooding issues.



Vermont Wetland Rules regulate activities in protected wetlands

VT Wetland Classification System:

- Class I: Exceptional function and value
- Class II: Significant function and value
- Class III: Not significant, no regulation

6 Review Staff
 100+ Permits
 >800 Projects
 Reviewed

Permits are issued when an activity cannot be placed elsewhere and functions and values are not adversely effected.

The Wetlands Program also incentivizes voluntary restoration of wetlands to increase wetland functions such as water quality protection, flood control, and wildlife habitat.