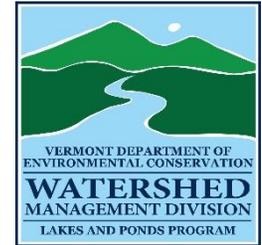


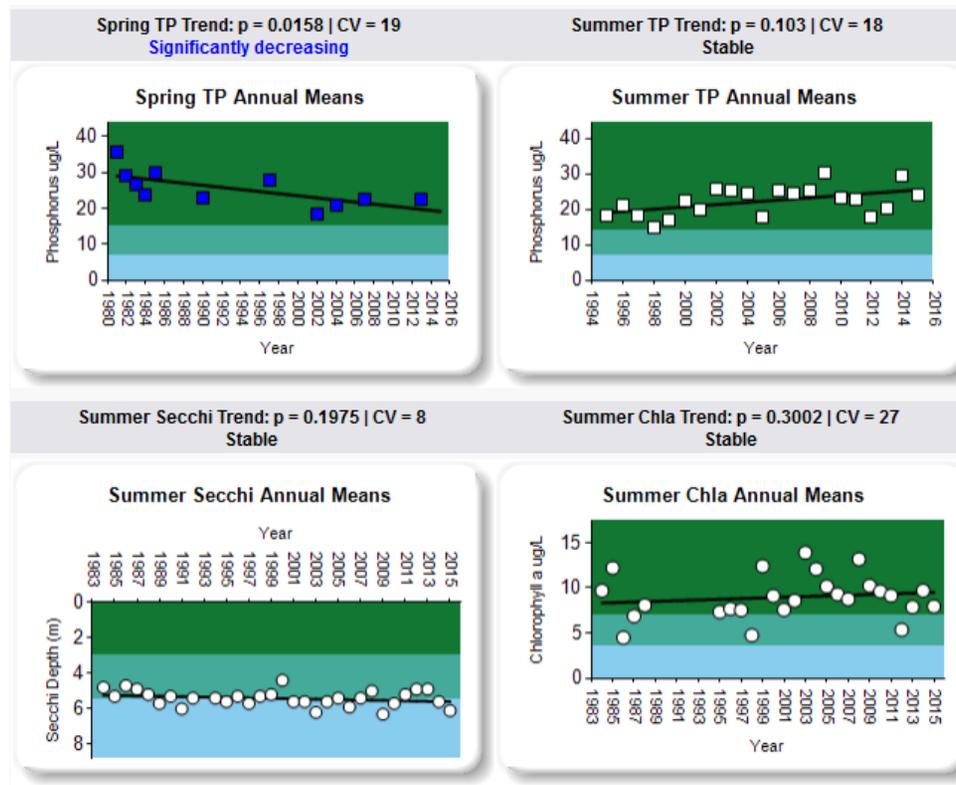
# Great Hosmer Pond Fact Sheet Series

## Water Quality Summary

Great Hosmer Pond exhibits relatively high phosphorus concentrations, causing it to be classified as eutrophic. Monitoring by the VT DEC Lakes and Ponds Program and volunteers shows that water quality has improved in recent years (see figures below). Phosphorus concentrations are dropping during spring turnover and the rate of increase during the summer months has slowed. Secchi transparency continues to be excellent and overall water quality is good.

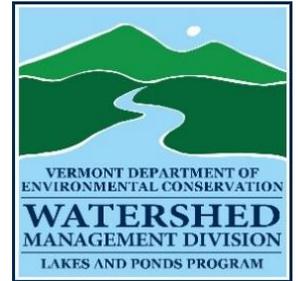


Lakes Program staff speculate that variability in summer phosphorus levels is caused by a combination of external and internal phosphorus loading. External loading can be addressed through watershed and shoreland stewardship. Internal loading is probably a result of legacy phosphorus that accumulated in sediments when lands in Craftsbury and Albany were cleared for forestry and grazing (see reverse). The lake's two deep holes are prone to incomplete mixing and therefore anoxic conditions, promoting phosphorus release from sediments resulting in metalimnetic algal growth. Declining spring phosphorus concentrations suggest the internal phosphorus load is decreasing over time.



## Albany and Craftsbury, VT Historical Photos

We provide these images to illustrate how local land use practices have changed over the past two centuries. Many of Vermont's watersheds and waterways harbor legacy nutrients accumulated during periods when more land was cleared.



Farm & logging operation along Black River Date: 1860-1890



Town of Craftsbury Date: 1907-1915



Black River Valley Date: 1907-1915



Craftsbury Village Date: 1950-1960