

Lake Stewardship in New Hampshire: It is What We Do



*NH LAKES: since 1992 Ensuring that our 1,000
Lakes are Clean and Healthy*

For the Country Pond Lake Association

Tom O'Brien, NH LAKES

June 2, 2018

“Our lakes are going to be protected forever only by the combined efforts of individuals, local groups, and a statewide organization - all working together to achieve this common purpose” (Tom O’Brien)

“No lake is an island” (Peter Sorlien)



What does NH LAKES do?

- Educates and advocates statewide for greater understanding, appreciation, protection and stewardship of our lakes
- Provides resources and tools to its members throughout NH
- Supports and promotes state laws and policies based on sound science
- Collaborates with other organizations and participates in the legislative and public policy arena to achieve lake protection



Public Policy and Advocacy Engagement and Successes

- Lakes Management Advisory Committee
- Exotic Aquatic Species Committee
- Public Water Access Advisory Board
- Senate Bill 89: Protecting NH's loons from the toxic effects of (the metal) lead
- House Bill 513: Improving the standards and the enforceability of the Shoreland Water Quality Protection Act

Why Do We Want Our Lakes to be Clean and Healthy?



Lakes Are Important

- Lakes provide drinking water to thousands of people in New Hampshire
- They are the economic engine for many of our communities
- New Hampshire's lakes contribute >\$1.5B per year to the state's Gross Domestic Product
- Clean lakes add to our quality of life
- Many people are personally invested in them

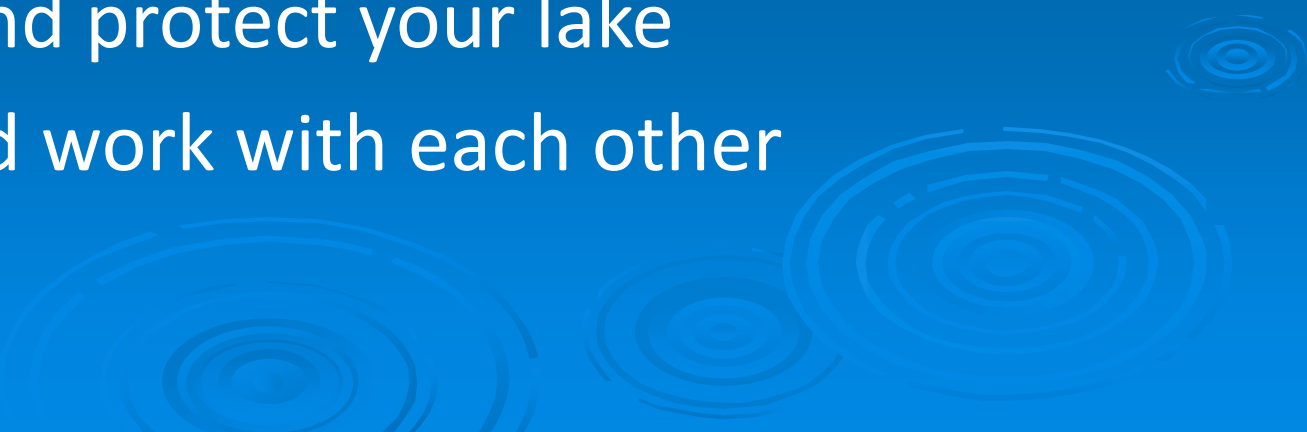
The Threats

- Aquatic invasive plants **and** animals
- Polluted (including heated) runoff water
- Increased frequency of more intense precipitation events
- Warming surface water temperatures
- Overuse, misuse or abuse of lakes
- “Those People....☺”

What can You Do?

- Build the capacity of your association
- Assess and address Watershed threats
- Be an ambassador and a role model
- Engage the greater lake community
- Partner with other groups (e.g. Land Trusts) to conserve the watershed
- Support and work with your statewide association: NH LAKES

What Can We Do Together?

- Engage, learn, and partner with each other
 - Educate ourselves and our policy makers
 - Advocate for lakes locally and statewide
 - Monitor the health of your favorite lake
 - Manage the health of your favorite lake
 - Conserve and protect your lake
 - Support and work with each other
- 

Engage and Work Together



Educate Ourselves and Others



Advocate Locally



Advocate on Statewide Issues



Or Fully Commit



Manage Your Lake

- Monitor Water Quality (VLAP or Lakes Lay Monitoring Program)
- Prevent the introduction or spread of AIS (Lake Host program - NH LAKES)
- Monitor the aquatic vegetation (Weed Watchers – NH DES)
- Raid response to infestations
- Act strategically and on a watershed scale

Monitoring, Prevention, and Detection

- Monitor: Volunteer Lake Assessment Program (VLAP). NH Department of Environmental Services: (603) 271-2658
sara.steiner@des.nh.gov
- Prevent: Lake Host Program, NH LAKES: (603) 226-0299 info@nhlakes.org
- Early Detection: Weed Watcher Program. Amy Smagula, NHDES: amy.smagula@des.nh.gov
- Rapid response....

NH Fish and Game Department

For fishing regulation information, please refer to the NHFGD Freshwater Fishing Digest.

Contact: NHFGD Inland Fisheries Division, Concord
E-mail: fish@wildlife.nh.gov Phone: 603-271-2501

COUNTRY POND Kingston, Newton

FISHERY: Warmwater ACRES: 306

TROPIC LEVEL: MESO

AVG. DEPTH: 16 MAX. DEPTH: 25

SPECIES: SMB,LMB,ECP,BBH,BC,
BG,WP,AE,CSF,YP

ADDITIONAL INFO:

ACCESS: Town Beach, limited access

Please contact NH Dept of Safety, Marine Patrol for info. on water body/boat/motor restrictions: (603) 293-2037 www.nh.gov/safety

Public Water Access site

Canoe/cartop

Shorebank

Ramp

Bathymetric contour (feet)

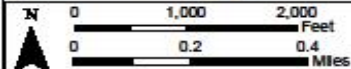
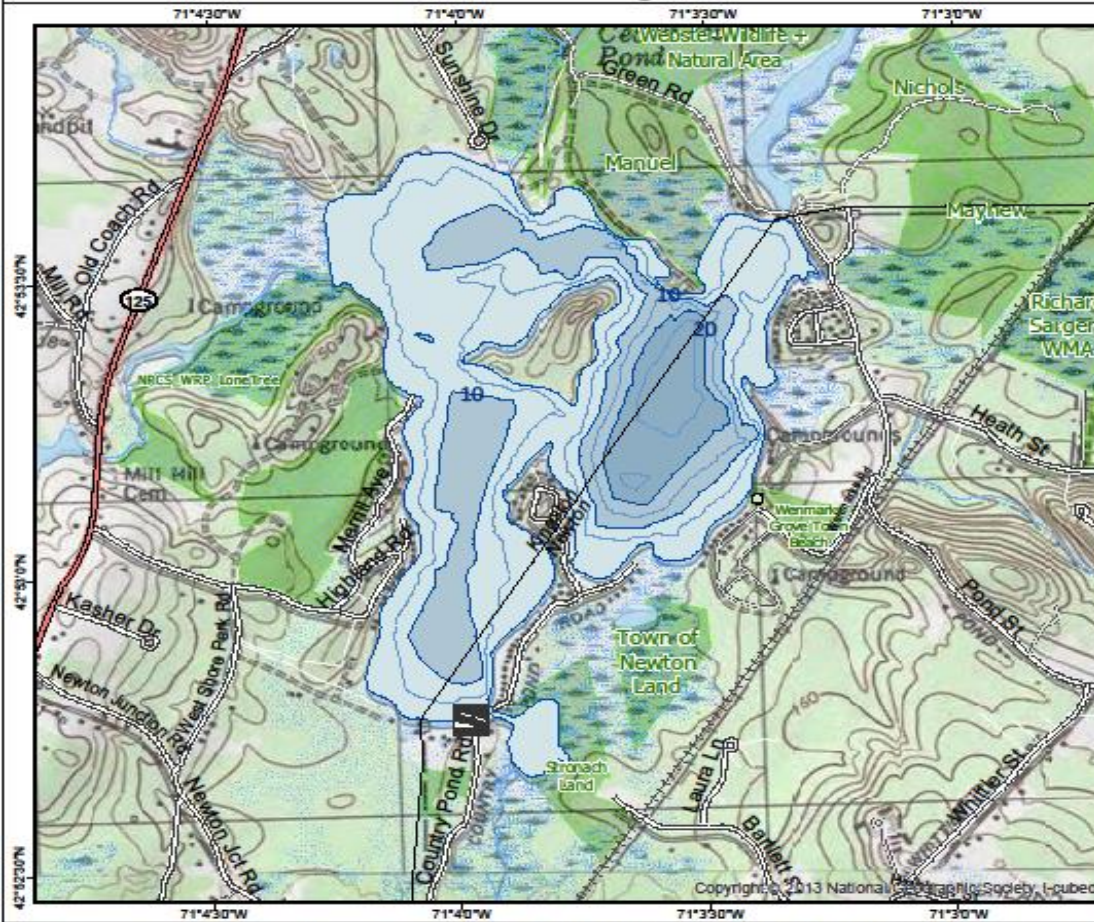
Bathymetry provided by the NH Department of Environmental Services, Watershed Mgt Bureau

Town boundary
 Primary Route
 Road or Street
 Trail or other
 Stream or Shoreline
 Surface Water
 Wetland
 Conservation or Public land
 Cleared
 Forest
 Contour
 Building
 Source: USGS

Restricted Access Conservation

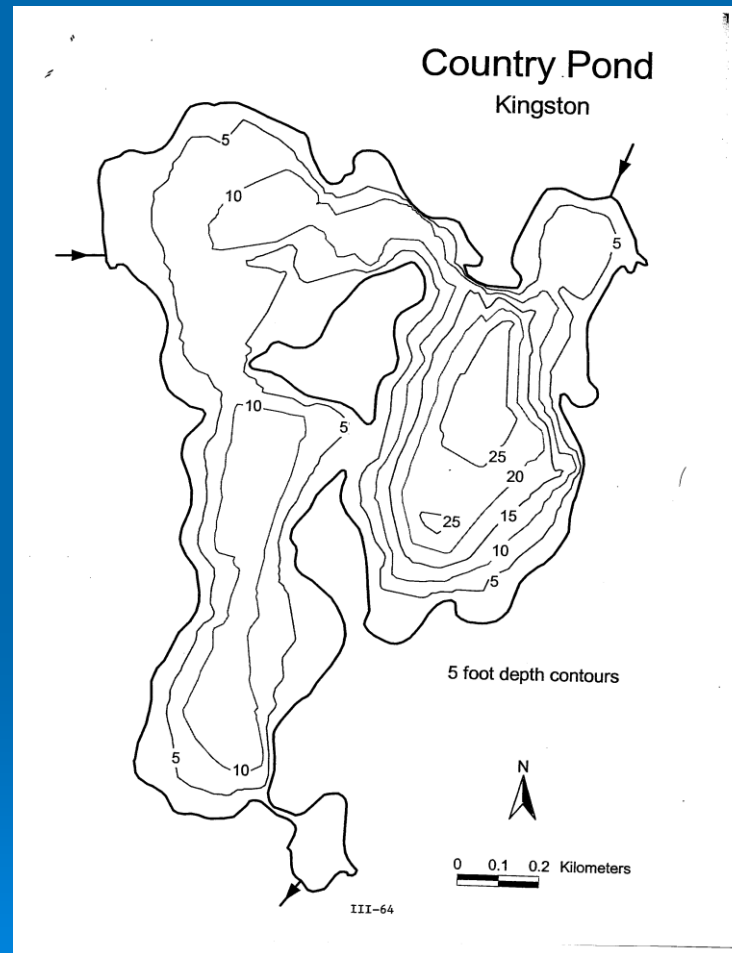


Directions:

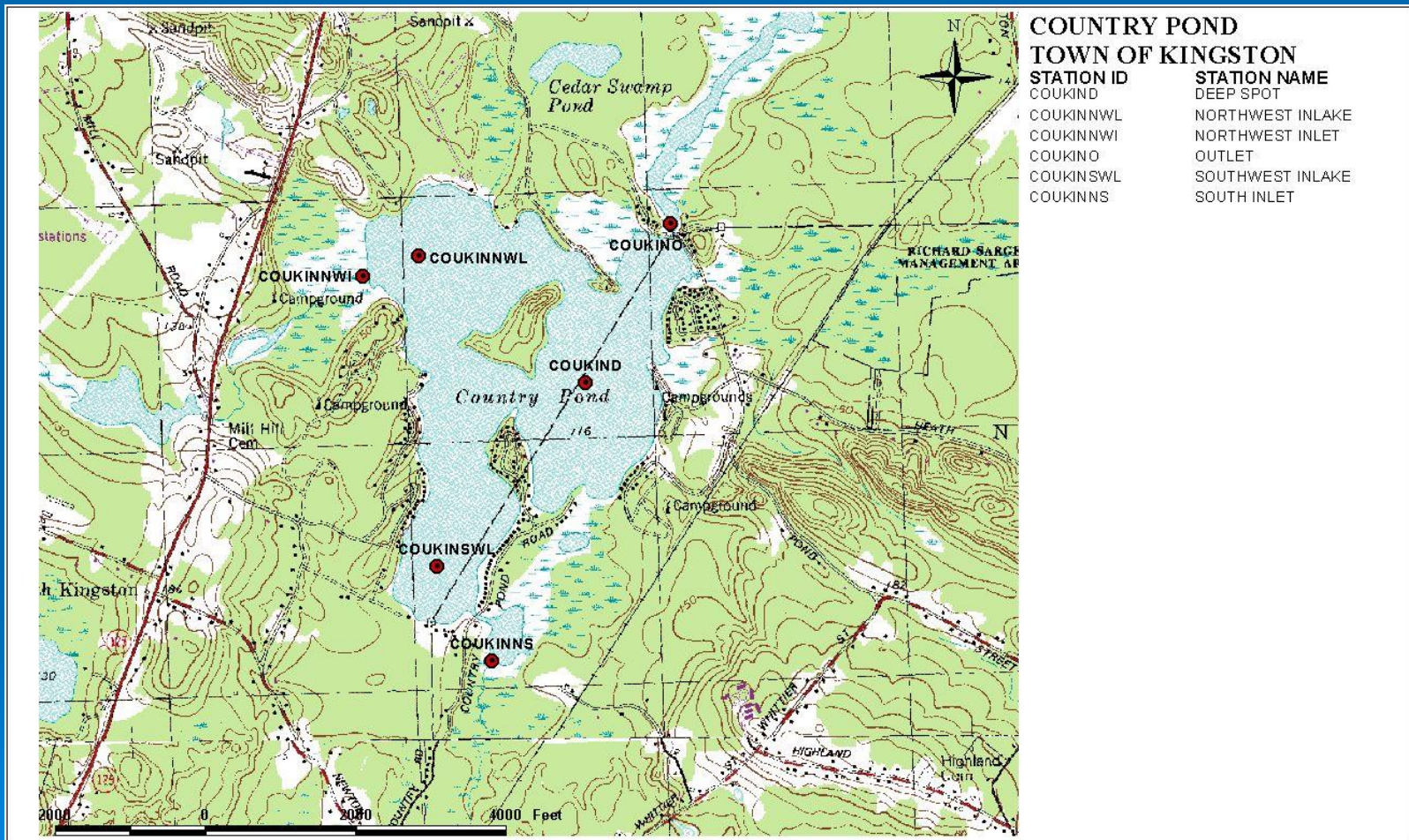


Base map data from NH GRANIT at Earth Systems Research Center (UNH) and Open Street Map contributors. UNH, NH Fish & Game and the cooperating agencies make no claim as to the validity or reliability or to any implied uses of these data. NOT INTENDED FOR BOAT NAVIGATION.

Country Pond Lake Bathymetry



Water Quality Sampling Stations



Lake Comparisons

➤ GROUP 2

➤ Volume = 100,000 - < 5,000,000 m³

➤ Maximum Depth = 0 - <10 m

➤ LAKE	Town	Max depth Depth (m)	Mean Depth (m)	Volume (m ³)	Area (hectare)	Watershed Area (hect)	Flush Rate
➤ CHALK POND	NEWBURY	3.6	2	166500	8.5	137.3	4.6
➤ CHASE POND	WILMOT	3.4	1.9	296000	15.78	3643.1	62.5
➤ CHESTNUT POND	EPSOM	7	3.4	420000	12.26	62.2	0.8
➤ CLOUGH POND	BELMONT	6.4	3.7	165500	4.49	27.4	0.7
➤ COLD (COLE) POND	ANDOVER	5.5	2.4	141500	5.99	298.5	10.7
➤ CONTENTION POND	HILLSBOR.	9.9	5.7	2168500	38.28	802.9	2.2
➤ CONTOOCOOK LAKE	JAFFREY	6.4	2.2	1944000	153.78	2382.8	6.8
➤ COUNTRY POND	KINGSTON	9.4	2.6	3268000	103.19	4221.7	6.2
➤ CRESCENT LAKE	ACWORTH	7.3	3.2	1526500	47.02	1183.6	3.7

Total Maximum Daily Load for Country Pond, Kingston, NH January 2011

- Draft Prepared by AECOM, July 2009
- Final Revisions made by the NH Department of Environmental Services, January 2011.

Want to help keep NH's lakes clean and healthy?

➤ **Join your Lake Association**

- Be supportive and get involved
- Walk the Talk – be a role model

➤ **Become a member of NH LAKES!**

- Pick up a membership brochure today.
- Or, join online at www.nhlakes.org

➤ **Volunteer with NH LAKES!**

- Become a Legislative Volunteer
 - write emails, letters, make phone calls or attend hearings
- Become a Lake Host:
 - Protect your local lake from invading exotic aquatic plants



Want to help keep New Hampshire's lakes clean and healthy?



“Never doubt that a small group of thoughtful committed citizens can change the world; indeed, it's the only thing that ever has.”

– Margaret Mead

Questions?

Comments?



NH LAKES

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www@nhlakes.org

603-226-0299