

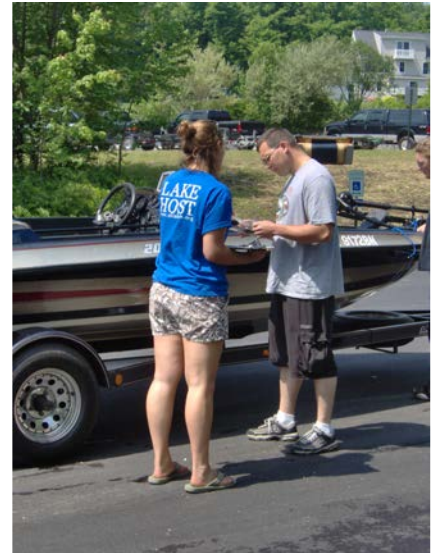


## NH LAKES Lake Host™ Program

**Goal:** To prevent the introduction and spread of aquatic invasive plants and animals in New Hampshire lakes and ponds.

**Target Audience:** Resident and out-of-state boaters who launch onto freshwater resources.

**Objectives:** To place trained Lake Hosts at boat launch sites to: educate visiting boaters about aquatic invasive species by distributing brochures, answering questions, and completing a brief boater survey; conduct courtesy boat and trailer inspections of vessels entering and leaving waters; show boaters where to look for hitchhiking aquatic invasive plants and animals encourage them to conduct self-inspections according to the “Clean, Drain & Dry” method; remove and properly dispose of all plant and animal material and other debris found, and; send samples of suspicious species removed from vessels to the New Hampshire Department of Environmental Services (NHDES) for identification.



**Program Need:** Aquatic invasive species infestations make recreation in and on lakes, ponds, and rivers dangerous and unpleasant, they disrupt the ecological balance of waterbodies, reduce shoreline property values through the reduction of aesthetic and recreational uses of the water body, and are difficult and expensive to control once they infest a waterbody. The main way invasive aquatic plants and animals are spread in New Hampshire is through the transportation of plant fragments or animal larvae on boats and trailers from infested waterbodies to uninfested waterbodies.

**Background:** In 2002, NH LAKES received a two-year grant from the National Oceanic and Atmospheric Administration (NOAA) as a result of an appropriation secured by U.S. Senator Judd Gregg. The grant supported a comprehensive aquatic invasive plant education and prevention program involving the creation of two videos, the development of plant identification cards, and the staffing of public motorized boat ramps with trained Lake Hosts. Also in 2002, state legislation was passed to raise boat registration fees by three dollars, effective January 1, 2003. The money collected by this increase, approximately \$300,000 per year, would fund exotic plant prevention and research activities through a grants program administered by NHDES. Up to two-thirds of this amount would be available annually as grants to support education and prevention activities (such as the Lake Host™ program). In 2010, this amount was legislatively amended to up to three-quarters.



### Lake Host Program Statistics Summary 2002-2018

Year	Groups	Paid Hosts	Volunteer Hosts	Lakes with Lake Hosts	Ramps Staffed	Inspections Conducted	Saves' of Invasive Species	Federal Funds	State Funds	Foundation Funds	Local Funds	TOTAL
2002	38	102	59	37	45	15,878	9	\$260,100			\$37,155	\$297,255
2003	46	149	167	45	59	26,583	7	\$10,000	\$165,000		\$112,382	\$287,382
2004	51	190	216	50	61	31,629	17	\$85,300	\$150,000		\$151,238	\$386,538
2005	56	175	318	56	61	34,878	54	\$35,000	\$185,000		\$200,756	\$420,756
2006	57	204	353	56	66	34,860	54	\$117,000	\$185,000		\$183,179	\$485,179
2007	68	221	429	64	83	44,183	157	\$117,000	\$185,000		\$292,017	\$594,017
2008	70	240	470	70	88	55,924	224	\$89,206	\$161,000		\$334,061	\$584,267
2009	71	236	420	71	86	53,796	297	\$89,206	\$123,333	\$4,000	\$341,535	\$558,074
2010	74	230	517	74	90	64,661	268	\$0	\$133,367	\$22,000	\$393,273	\$548,640
2011	73	219	475	74	92	68,429	39	\$0	\$169,000	\$23,000	\$404,751	\$596,751
2012	77	238	500	78	100	77,261	137	\$0	\$200,000	\$14,500	\$486,455	\$700,955
2013	81	247	500	82	103	77,806	153	\$0	\$210,000	\$18,259	\$494,248	\$722,507
2014	80	258	500	82	102	83,663	58	\$0	\$230,000	\$22,500	\$503,170	\$755,670
2015	80	285	507	82	103	92,184	48	\$0	\$226,500	\$24,000	\$517,227	\$767,727
2016	82	264	545	83	104	89,960	28	\$0	\$252,000	\$24,000	\$526,251	\$802,251
2017	80	271	400	81	101	94,222	22	\$20,177	\$261,000	\$27,000	\$546,193	\$854,370
2018	80	301	431	80	106	83,073	26	\$5,845	\$254,000	\$8,000	\$587,698	\$855,543
<b>Total</b>						<b>1,028,990</b>	<b>1,598</b>	<b>\$828,834</b>	<b>\$3,090,200</b>	<b>\$187,259</b>	<b>\$6,111,589</b>	<b>\$10,217,882</b>

### 'Saves' of aquatic invasives entering or leaving a waterbody as a result of the program

Year	Chinese Mystery Snail	Common Reed	Curly Leaf Pondweed	Eurasian Milfoil	European Naiad	Fanwort	Variable Milfoil	Water Chestnut	Zebra Mussels	TOTAL
2002				2			7			9
2003				2		3	2			7
2004			1	5		1	10			17
2005				7		1	43	3		54
2006				7		7	40			54
2007		1	1	4		65	86			157
2008				5		168	50	1		224
2009			4	4		240	48	1		297
2010			1	6	18	170	72	1		268
2011			1	9		12	17			39
2012			1	10		73	52	1		137
2013	3		2	6		51	90	1		153
2014	1		1	12	1	3	37	3		58
2015	6		3	3		5	31			48
2016	1			1		10	15	1		28
2017	1			1			18	1	1	22
2018	1			3		2	19	1		26
<b>Total</b>	<b>13</b>	<b>1</b>	<b>15</b>	<b>87</b>	<b>19</b>	<b>811</b>	<b>637</b>	<b>14</b>	<b>1</b>	<b>1598</b>



**As a result of the program, the following 'saves' have been made of aquatic invasives entering or leaving a waterbody:**

- **Beaver Lake** (Derry): Fanwort (2008, 2009), V. milfoil (2008, 2011), E. milfoil (2012)
- **Bow Lake** (Northwood): V. milfoil (2003, 2005), E. milfoil (2005, 2009), Fanwort (2015), Milfoil species (2014)
- **Clough Pond** (Loudon): V. milfoil (2005)
- **Connecticut River** (Hinsdale): E. milfoil (2010), European naiad (2010)
- **Conway Lake** (Conway): V. milfoil (2011), E. milfoil (2014)
- **Crescent Lake** (Acworth): E. milfoil (2003, 2012), Fanwort (2003)
- **Crystal Lake** (Enfield): Water chestnut (2005), E. milfoil (2010)
- **Deering Reservoir** (Deering): E. Milfoil (2013), V. milfoil (2014)
- **Dublin Lake** (Dublin): E. milfoil (2016)
- **Eastman Lake** (Grantham): E. milfoil (2010,2018)
- **First Connecticut Lake** (Pittsburg): V. milfoil (2014)
- **Gilmore Pond** (Jaffrey): Water chestnut (2005), Fanwort (2016)
- **Goose Pond** (Canaan): E. milfoil (2007), V. milfoil (2009)
- **Granite Lake** (Nelson/Stoddard): Curly leaf pondweed (2009, 2011); E. milfoil (2011, 2013); V. milfoil (2011)
- **Great East Lake** (Wakefield): E. milfoil (2006, 2008), Fanwort (2010), V. milfoil (2007-10, 2013,2018)
- **Highland Lake** (Stoddard): E. milfoil (2005), V. milfoil (2015)
- **Island Pond** (Stoddard): V. milfoil (2013)
- **Jeness Pond** (Northwood): V. milfoil (2005)
- **Lake Francis** (Pittsburg): V. milfoil (2014)
- **Lake Massabesic** (Auburn): Fanwort (2013), V. milfoil (2012, 2014)
- **Lake Monomonac** (Rindge): E. milfoil(2004, 2017); Curly leaf pondweed (2004), V. milfoil (2004-08, 2014)
- **Lake Opechee** (Laconia): Water chestnut (2016-2017)
- **Lake Ossipee** (Ossipee): E. milfoil (2010), V. milfoil (2009, 2011-12, 2016)
- **Lake Potanipo** (Brookline): Fanwort (2010), V. milfoil (2010-12; 2017- 18)
- **Lake Sunapee** (Sunapee): milfoil (2005), E. milfoil (2006-09, 2015), V. milfoil (2007), Fanwort (2016)  
Zebra mussel (2017)
- **Lake Waukegan** (Meredith): E. milfoil (2003), V. milfoil (2007, 2008), Water chestnut (2018)
- **Lake Wentworth** (Wolfeboro): V. milfoil (2008)
- **Lake Wicwas** (Meredith): V. milfoil (2010)
- **Lake Winnepesaukee**: Fanwort (2003, 2007); V. milfoil (2004, 2007-12, 2014-18), E. milfoil (2012)
- **Lake Winnisquam** (Laconia): V. milfoil (2008, 2015-17)
- **Little Lake Sunapee** (New London): V. milfoil (2011), Curly-leaf pondweed (2015)
- **Lovell Lake** (Wakefield): V. milfoil (2006-07, 2013, 2018)
- **Merrymeeting Lake** (New Durham): V. milfoil (2007, 2010, 2012-15, 2018), Water Chestnut (2012)
- **Mirror Lake** (Tuftonboro): Chinese mystery snail (2014)
- **Newfound Lake** (Bristol): Curly-leaf pondweed (2015), E. milfoil (2006, 2009, 2010, 2011, 2014, 2015), Fanwort (2003, 2006, 2013), V. milfoil (2002, 2006, 2007, 2008, 2009, 2014, 2015), Water Chestnut (2009, 2010), Water naiad (2014)
- **Northwood Lake** (Northwood):Curly leaf pondweed (2007),E. milfoil (2007),V. milfoil (2008, 2010-2011, 2013-2014, 2016-2017)
- **Nubanusit Lake** (Nelson/Hancock): Curly leaf pondweed (2009), E. milfoil (2002, 2004), V. milfoil (2007, 2008)
- **Ottarnic Pond** (Hudson): Chinese mystery snail (2015), Curly leaf pondweed (2013), Fanwort (2005-08, 2012-2016), V. milfoil (2006, 2007, 2010-2016)
- **Pawtuckaway Lake** (Nottingham): Common reed (2007), Curly leaf pondweed (2010, 2013-14), E. milfoil (2009-12, 2014-15, 2018), Fanwort (2009, 2011), V. milfoil (2007-10, 2012-18), Water chestnut (2008, 2014)
- **Pleasant Lake** (Deerfield): E. milfoil (2011), V. milfoil (2004, 2007, 2013, 2016)
- **Pleasant Pond** (Francestown): Curly leaf pondweed (2009), E. milfoil (2006); V. milfoil (2011, 2013, 2014)
- **Pow Wow Pond** (Kingston): Chinese mystery snail (2013), V. milfoil (2013, 2015)
- **Robinson Pond** (Hudson): Chinese mystery snail (2013, 2017), Fanwort (2004, 2006-14, 2016, 2018), V. milfoil (2004-2014, 2016-18), E. milfoil (2012)
- **Silver Lake** (Madison): V. milfoil (2002, 2004, 2006,2018)
- **Silver Lake** (Harrisville): V. milfoil (2018)
- **Lake Skatutakee** (Harrisville): E. milfoil (2005)
- **Spofford Lake** (Chesterfield): E. milfoil (2002, 2005, 2008, 2011, 2013); V. milfoil (2011)
- **Squam Lake** (Holderness): Chinese mystery snail (2015), Curly leaf pondweed (2009), E. milfoil (2007), Fanwort (2013)
- **Suncook Lake** (Barnstead): V. milfoil (2009, 2013)
- **Swanzey Lake** (Swanzey): V. milfoil (2011), E. milfoil (2012), Water chestnut (2014)
- **Thorndike Pond** (Jaffrey): V. milfoil (2015)
- **Webster Lake** (Franklin): E. milfoil (2011, 2012, 2014), Fanwort (2010), V. milfoil (2009), Curly leaf pondweed(2012), Chinese mystery snail (2018)