

## **Cushman Pond Dive Report for Saturday August 8th 2015**

### **Conditions:**

Surface water temp 73<sup>0</sup>; Estimated water temp at 8' = 58<sup>0</sup>;

Thermocline at 8' depth;

Air temp 78<sup>0</sup> and sunny;

Water visibility at depth approximately 2'.

**Participants:** 2 divers - (Doug Faille, Jackey Bailey)

2 third lung- (hookah) divers (Greg Buck, Bryant Buck)

3 snorkelers – (Dave Goodrich, Scott Buck, Jim Buck)

10 Boat & Barge Support- (Dianne Buck, Brian Rowe, Caleb Rowe, Paul Mundell, Keith Rowe, Marti Kinsell, Joe Davis, Jane Davis, Charlie Boyle, Bob Stewart)

10 Ground Support - (Gene Spender (LIPPC), Diane Caracciolo (LIPPC), Jim Rowe, Kristen Buck, Parker Buck, Hadley Buck, Cliff Rowe, Elaine Bertwell, Barbara Buck, Mary Boyle)

5 Observers from LIPPC - (Peter Koop, Joyce Koop, Leigh Hayes, Tom Cyr, Tom Hughes)

**32 Total Participants**

### **Dive Summary:**

This report includes findings on an unscheduled limited dive conducted on Wednesday, August 5<sup>th</sup> and the scheduled survey of August 8<sup>th</sup>. The limited dive covered the deeper waters of the southeast cove between Davis' raft and Faille's dock. A thorough search through the weedbed along the south shore was also conducted.

The surveys found a total of 4 plants for a volume of approximately one quart (.25 gallons) bringing the year-to-date for 5 surveys to 23 plants and approximately 1.5 gallon volume. (6 quarts) In comparison through mid-August in 2014 we had found 47 plants for an estimated volume of 7 gallons. (28 quarts) We're continuing to find half as many plants as 2014 and we're harvesting them much earlier.

The full survey covered the entire pond with the higher probability areas covered in two directions as the snorkelers left from the dam and the hookah and scuba divers swam in from Faille's & Buck's docks.

Plant # 1 was found during the Tuesday dive. It was growing 3' of water near the matted site off Doug Faille's dock area. The plant was 14' long with 2 smaller stems.

Plants #2 & 3 were found near the hanging tree off Joan Cope's lot; a frequent site that is heavily matted. Plant 2 consisted of a 14" stem with a smaller 4' stem. Plant #3 was made up of 6 stems that

largest of which was 16" long. This site was not matted as a proper sized mat was not available. We will cover this during in the August 22<sup>nd</sup> survey.

Plant #4 was found near a prior plant harvest approaching Keith Rowe's property on the west shore outside the cove. Like its predecessor, this plant was found in 5-6' of water near a tangle of submersed pine logs. It was the largest plant found at approximately 27' in length and had 5 or 6 stems. This east-facing location is a high sun area similar to the sites we are finding plants in the cove. It's an area of concern as we haven't had many plants in this area in many years. This plant was matted.

Three mats were removed during the survey from the deeper waters of the cove past the buoy.

The harvest is shown in the enclosed pictures.

Plant #1 (August 5<sup>th</sup>)



Plants 2,3 &4



**Diver hours** for this survey were 6 hours. Year To Date Diver Hours are: 36.5 Hours with 16.5 for Doug Faille, 13.5 for Scott Gregory and 6.5 for Jackey Bailey.

**Hookah Hours** for this survey were a total of 6. Year To Date Hookah hours are: 18 with 9 each for Bryant and Greg Buck. Hookah hours for the Wednesday dive are included under volunteer hours.

**Volunteer hours** totaled 54 including observer hours and the preparation of this report. Year to Date Volunteer hours are: 206 hours.

Approximate plant locations of this week's dives and Year To Date Dives are displayed in the attached maps.

**Next Survey is: Saturday August 22<sup>h</sup> 9:30AM at the Town Landing.**

This was originally scheduled as an optional dive, but we've decided to conduct it as we don't want to lose ground and let any plants grow for a month between surveys. Jackey Bailey informs us that a milfoil plant can grow an inch a day under the right conditions. We don't want to let any plants get to 30".

During this next survey we plan to again attempt a shoulder to shoulder scan of the deeper waters of the cove. We've been unsuccessful in a couple tries at this, but we have some new marking tools to help us. In any event the divers have spent a lot of time in the deeper waters with no plants found.

For Saturday's survey we also plan to have materials available to construct new smaller mats. We will also be assigning numbers to the mats and will begin recording and reporting the dates they are deployed and removed. *(We're supposed to report on that)*

All are welcome to attend any surveys. We can always use more volunteers and encourage all camp, homeowners, landowners and friends of Cushman Pond to participate in the surveys even if only to stop by for the start.

To help with your planning, here's the schedule for 2015:

1. ~~Sunday, May 24<sup>th</sup> – 9:30AM Divers Only Cove Focus~~ **Complete**
2. ~~Sunday, June 14<sup>th</sup> – 9:30AM First Full Survey~~ **Complete**
3. ~~Saturday, July 4<sup>th</sup> – 9:30AM~~ **Complete**
4. ~~Saturday July 18<sup>th</sup> – 9:30AM~~ **Complete**
5. ~~Saturday, August 8<sup>th</sup> – 9:30AM~~ **Complete**
6. **Saturday, August 22<sup>nd</sup> -9:30AM**
7. Saturday, September 5<sup>th</sup> - 9:30AM – followed that evening by the Annual Picnic, we're hoping to have a guest speaker.

LWRMA Close Out Survey – To be scheduled

Thanks for you continued support. Please help us finish the year strong.

Jim Buck

## Cushman Pond Milfoil Surveys

### 2014 Month End Mid-August Results

<u>Date:</u>	<u>31-May</u>	<u>28-Jun</u>	<u>26-Jul</u>	<u>9-Aug</u>		<u>2014 Results</u>	<u>%</u>
<b>Location:</b>							
Cove/Town Landing	5	6	9	9		29	62%
SE Weedbed	1	10	4	0		15	32%
NorthWest Shore	0	0	0	1		1	2%
South Shore	0	0	1	1		2	4%
<b>Total</b>	<b>6</b>	<b>16</b>	<b>14</b>	<b>11</b>	<b>0</b>	<b>47</b>	<b>100%</b>
<b>%</b>	<b>13%</b>	<b>34%</b>	<b>30%</b>	<b>23%</b>	<b>0%</b>	<b>100%</b>	
Est Volume (Gallons)	0.50	2.50	2.00	2.00		7.00	Gallons
# Participants:	5	19	13	27		64	

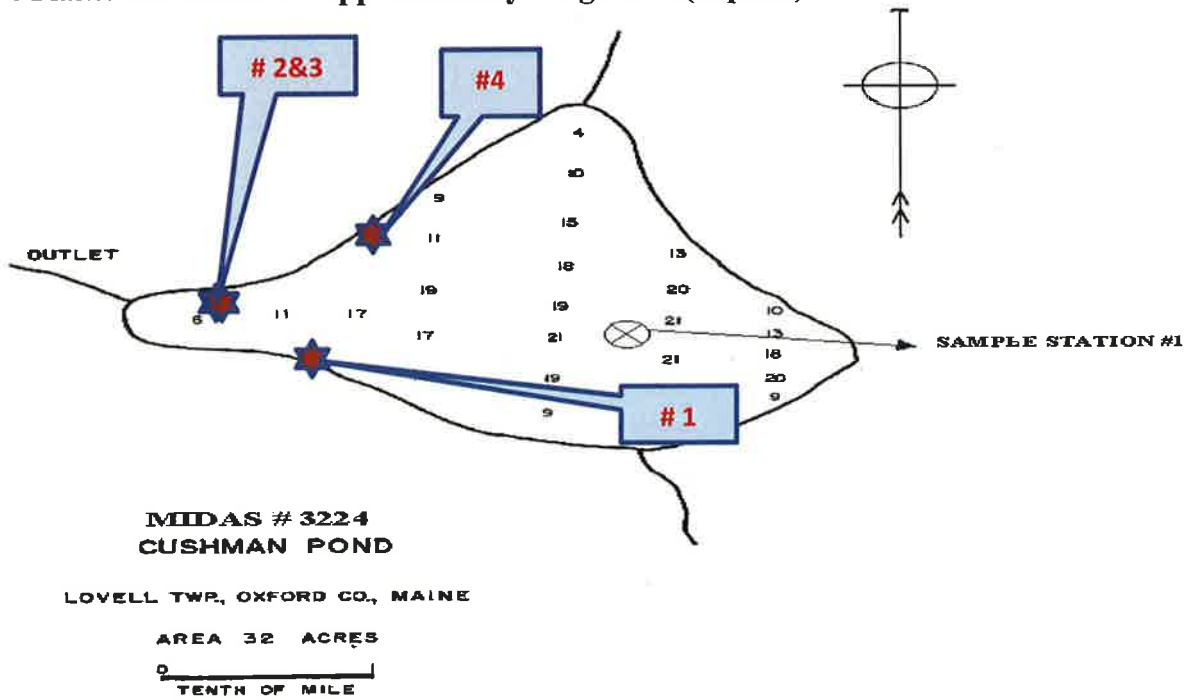
### 2015 Year To Date (YTD) Results

<u>Date:</u>	<u>24-May</u>	<u>13-Jun</u>	<u>4-Jul</u>	<u>18-Jul</u>	<u>8-Aug</u>		<u>YTD Total</u>	<u>%</u>
<b>Location:</b>								
Cove/Town Landing	4	4	1	4	2		15	65%
SE Weedbed	0	1	3	0	1		5	22%
NorthWest Shore	0	0	0	1	1		2	9%
South Shore	0	0	0	1			1	4%
<b>Total</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>23</b>	<b>100%</b>
<b>%</b>	<b>17%</b>	<b>23%</b>	<b>17%</b>	<b>26%</b>	<b>17%</b>	<b>0%</b>	<b>100%</b>	
Est Volume (Gallons)	0.25	0.50	0.25	0.25	0.25		1.50	Gallons
# Participants:	17	14	40	15	32		118	

	<b>YTD Mid-August 2014</b>	<b>YTD August 2015</b>	<b>% Change</b>
# Plants	47	23	-51% Reduction
Volume (Quarts)	28.00	6.00	-79% Reduction
# Survey Participants	64	118	84% Increase

### Cushman Pond Milfoil Sightings for August 8, 2015

= 4 Plants Harvested for approximately .25 gallons (1 quart)



### Cushman Pond Milfoil 2015 Sightings through August 8, 2015

= 23 Plants Harvested for approximately 1.5 gallons (6 quarts)

