

Deering Conservation Commission Wood Duck Box Report



2012

Hunter's Pond

Deering Conservation Commission 2012 Wood Duck Box Report

The Deering Conservation Commission (DCC) maintains dozens of nesting boxes throughout the town, primarily on its many conserved lands. The boxes were installed with the intention of providing suitable nesting opportunities for Wood Ducks. Annually, DCC members fan out across town to locate the boxes, see if they've been used, record the results, and refresh them for use during the coming nesting season.

Over 20+ years, the number of boxes maintained by DCC members grew to nearly five dozen. Prior members relied less on maps of each boxes' location, as they knew where the boxes were after decades of diligent upkeep. During March 2012, using old maps and lists, an entirely new set of DCC members took on the task of finding the boxes and cleaning them out for duck usage that spring. The new DCC members were a bit fuzzy on Wood Duck behaviors, wants and desires, and perhaps some best practices on maintaining a successful nesting box program. While many boxes were cleaned that winter, many others were not. The DCC resolved to improve the program the following season—that's the focus of this report.

In addition to cleaning out as many boxes as possible, the commission formed the following goals prior to embarking on this season's cleaning campaign:

- Build & install 12 new boxes
- Find all potential legacy boxes
- Improve nesting success rates by modifying locations
- Create a GPS map with each boxes' location
- Improve records

Most of these goals were met. 12 new boxes were installed throughout Deering. They were used to replace older, crumbling boxes the ducks no longer utilized, and to install in locations suitable for additional boxes. More new boxes are needed, and will be built during 2013 for installation the coming winter.

While cleaning boxes, DCC members moved some to better locations, removed some entirely due to lack of use, and ensured boxes were securely installed with as little wiggle as possible. Improvement examples include removing boxes from trees leaning backwards, as the ducks cannot 'escape' backwards-leaning boxes, generally moving boxes to the shoreline away from open water, as Wood Ducks prefer a bit more privacy, and trying to install boxes on living trees wherever possible.

Most legacy boxes are installed in swampy areas on dead trees. Eventually, these trees fall over, taking the box with them to an icy demise. Installing boxes on living trees greatly reduces the risk of losing a box, which requires a new one be built, and probably resulting in a lost nesting opportunity. However, mounting a box on a living tree on land does increase the risk of predation, as the boxes are easier to get into by those that would do harm to the eggs. We'll see how this strategy works over the coming years.

The DCC did fall short of locating every box described in the older records, though nearly all were identified as either still in use, or lost. The remaining stragglers will be identified the coming winter. To give an idea of scope, there were more than 80 box numbers assigned. As this report is being written, members had identified 48 boxes in active use, 27 boxes no longer in use, with 8 boxes unverified. Boxes no longer in use require the most time and effort to verify—without GPS coordinates, it's quite difficult to 'find' a missing box!

To that end, the commission has successfully obtained LAT/LON markers for most of the active boxes, and has created a map easily utilized on any smartphone through Google maps. The commission plans to make the map public shortly, posting the URL on its portion of the town's website. This will make it far easier for anyone to find the boxes in the coming years, especially if one falls into a swamp. Also, DCC members ensured all boxes that were found were properly labeled with a number for quick and easy visual confirmation that the correct box was found.

**Deering Conservation Commission
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Lastly, extracting meaningful data from the existing records was difficult, due to how the data was reported. In order to maximize successful duck box usage, we needed to identify locations the ducks favored, rather than just individual boxes. Also, box numbers had been reused in different places over the years with the original locations unknown, making the records less useful for data mining as the years went on. A new plan was needed.

We began by simplifying reporting to record only if the box had been used or not. In the past, members guessed how many eggs had hatched, and also counted how many had not. Since our goal is to provide a suitable nesting location, not determine the size or success of a brood, simply recording if the boxes were used meets our goal, and is a precise data point.

Records are kept on Excel spreadsheets rather than a database, which ultimately may be the better option, but for now, the spreadsheets are working as needed. The old format listed boxes in numerical order, period. When sending out DCC members to find boxes, this was not ideal. The list is now sorted alphabetically by location first, then by current box number. Each location in the list also includes former locations and their usage rates over the years, with any number assigned to the old location recycled into an 'available box' list. This allows us to calculate a use-percentage by location, rather than by box, which is a far more useful statistic. Also, this method does not care about box numbers – just what general location they were in. We can use these figures to retire locations the ducks aren't using, and expand opportunities in locations they are. This also allows us to maximize nesting opportunities for the time DCC members are able to provide cleaning out boxes. The spreadsheet also maintains a list of box numbers in use, a list of locations no longer utilized, and a list of locations that require verification, all with annual results.

In conclusion, a lot of work was completed this year. There are more good boxes in service and many are in a more desirable location. Future members will be able to quickly locate the boxes. Assigning locations to clean can now be completed quickly, with much useful information provided to the members. And, understanding how all of our efforts have worked is much easier.

What follows are the results of this past year's nesting season, compared with prior years, as well as ranking of the locations.

Aaron Gill
DCC Officer

Deering Conservation Commission

Wood Duck Box Program

Annual Summary

Nesting Year	Active Boxes Checked	Used by Wood Ducks	% Wood Ducks	Used by Hooded/reg Mergansers	% Hooded/reg Mergansers	Total % Used
1994	29	12	41.4%	1	3.4%	44.8%
1995	33	15	45.5%	3	9.1%	54.5%
1996	33	19	57.6%	2	6.1%	63.6%
1997	40	19	47.5%	2	5.0%	52.5%
1998	42	16	38.1%	1	2.4%	40.5%
1999	40	18	45.0%	4	10.0%	55.0%
2000	45	21	46.7%	4	8.9%	55.6%
2001	41	16	39.0%	2	4.9%	43.9%
2002	39	20	51.3%	3	7.7%	59.0%
2003	39	14	35.9%	1	2.6%	38.5%
2004	37	17	45.9%	0	0.0%	45.9%
2005	39	15	38.5%	1	2.6%	41.0%
2006	41	9	22.0%	5	12.2%	34.1%
2007	46	14	30.4%	2	4.3%	34.8%
2008	44	14	31.8%	1	2.3%	34.1%
2009	44	12	27.3%	3	6.8%	34.1%
2010	44	16	36.4%	2	4.5%	40.9%
2011	19	5	26.3%	1	5.3%	31.6%
2012	43	0	0.0%	0	0.0%	0.0%
738		260	35.2%	38	5.1%	40.4%

Location Success Rates

Location	# of Active Boxes	Since 1994	
		Wood Duck Usage	Total Duck Usage
WILKIN'S CEMETARY	1	61%	68%
JOHNSON'S POND	4	57%	67%
TREE FROG POND (Audubon)	4	52%	65%
HUNTER'S POND	6	47%	58%
POLING'S MARSH	1	52%	55%
LEAD MINE, UPPER	3	52%	52%
LILY POND	2	43%	51%
MUD POND	2	17%	50%
HOMESTEAD MARSH	3	34%	45%
HISTORICAL ACTIVE LOCATION AVERAGE		36%	43%
PATTERN MARSH	2	33%	35%
RESERVOIR MARSH	3	28%	34%
LEAD MINE, LOWER	3	29%	32%
FULTON POND	1	23%	23%
BLACK FOX POND (Audubon)	8	12%	20%
PLEASANT POND ROAD	2	15%	18%
DUDLEY POND BEAVER DAM	2	7%	13%
AIRPORT MARSH	1	9%	9%

BOX NUMBERS IN FIELD

Roster Count	Box Number	Current Location	Year Installed	Box Condition
1	1	Hunter's Pond	2013	Good
2	2	Hunter's Pond	2013	Good
3	3	Johnson's Pond	2013	Good
4	4	Johnson's Pond	2006	Acceptable
5	5	Wilkin's Cemetery	2013	Good
6	6	Lead Mine, Upper	2013	Good
7	9	Lead Mine, Lower	1994	Should be replaced, moved
8	10	Lead Mine, Upper	2013	Good
9	11	Lead Mine, Lower	Unknown	Acceptable
10	13	Lead Mine, Upper	2013	Good
11	16	Dudley Pond Beaver Dam	2005	Needs new clean out box, number plate
12	17	Lead Mine, Lower	2011	Acceptable
13	18	*Dudley Brook Marsh	2011	
14	23	Pleasant Pond Road	1995	Move, on pole... replace?
15	24	Homestead Marsh	2011	
16	25	Homestead Marsh	2011	
17	26	Homestead Marsh	2011	
18	27	Johnson's Pond	2013	Good
19	28	Johnson's Pond	2013	Good
20	29	Poling's Marsh	1995	Replace during 2014 clean out season
21	30	Hunter's Pond	2013	Good
22	31	Hunter's Pond	2013	Good
23	32	Reservoir Marsh	2007	Acceptable
24	34	Airport Marsh	2002	Acceptable
25	36	Fulton Pond	1994	Acceptable
26	37	Reservoir Marsh	2007	Acceptable
27	38	Reservoir Marsh	2007	Acceptable, Move further down pond/other side?
28	40	*Glen Pond Road	1994	
29	43	Pattern Marsh	2002	Removed - needs new location, box acceptable
30	44	Pattern Marsh	2002	Acceptable
31	46	Pleasant Pond Road	1994	Replace during 2014 clean out season
32	47	Lily Pond	1997	Acceptable, needs number plate
33	48	Dudley Pond Beaver Dam	2007	Consider moving, removing
34	49	Lily Pond	1997	Acceptable
35	50	Hunter's Pond	2011	When falls, do not replace
36	51	*Driscoll Cart Road	1994	
37	52	Audobon Tree Frog Pond	1991	Replace
38	53	Audobon Tree Frog Pond	1991	Replace
39	56	Audobon Black Fox Pond	1991	Acceptable
40	58	Audobon Black Fox Pond	2007	Acceptable
41	62	Mud Pond	2011	Acceptable
42	63	Mud Pond	2011	Must be moved, box acceptable
43	64	Audobon Black Fox Pond	1996	Acceptable
44	65	Audobon Black Fox Pond	1996	Acceptable
45	66	Audobon Black Fox Pond	1996	Acceptable
46	67	Audobon Black Fox Pond	1996	Acceptable
47	68	Audobon Black Fox Pond	1996	Acceptable
48	69	Audobon Black Fox Pond	1996	Acceptable
49	71	*Garland	2008	
50	72	Hunter's Pond	2013	Good
51	75	*Gerini Marsh	Unknown	
52	77	*West Deering Bridge	1997	
53	78	*Central Rangeway	1997	
54	79	*Central Rangeway	1997	
55	82	Audobon Tree Frog Pond	2008	Acceptable
56	83	Audobon Tree Frog Pond	2008	Acceptable

48 Verified boxes in field
 8 *Unverified boxes in field
 12 New boxes built/installed Feb 2013
 5 Must be built/installed Feb 2014

Usage
Total
780
266
34%
52
7%
41%

Usage
Total
23
2
9%
0
0%
9%

Usage
Total
138 16 12%
11 8% 20%

Usage
Total
46 24
52%
6 13%
65%

Usage
Total
15
1
7%
1
7%
13%

FULTON POND

0		Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	Usage	
36	Box in good condition, only box on pond=good	1994	1994	43.0443954N,71.8451462W	WD	WD	WD	empty	empty	WD	empty	uc	WD	empty	WD	empty	uc	empty	empty	empty	empty	uc	empty		
OLD			lost		-	-	-	-	-	-	-	-	-	-	NEW	empty	empty	empty	uc	empty	empty	uc	lost	-	
OLD			lost		-	-	-	-	-	-	-	-	-	-	NEW	empty	lost	-	-	-	-	-	-		
# of Boxes:					1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	2	2	0	1	1	
# used by Wood Ducks:					1	1	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	
Wood Duck usage:					100%	100%	100%	0%	0%	100%	0%	0%	100%	0%	100%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
# used by Mergansers:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Merganser usage:					0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Total usage:					100%	100%	100%	0%	0%	100%	0%	0%	100%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Usage
Total
26
6
23%
0
0%
23%

HOMESTEAD MARSH

0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2013	
24		1993	2011		WD	WD	WD	empty	empty	NEW	WD	uc	WD	empty	empty	empty	lost	-	-	-	NEW	empty	uc		
25		1993	2011		empty	empty	empty	empty	empty	NEW	M	uc	lost	-	-	lost	-	-	-	-	NEW	empty	uc		
26		1993	2011		empty	WD	M	WD	WD	WD	lost	-	NEW	M	WD	lost	-	-	-	-	NEW	empty	uc		
# of Boxes:					3	3	3	3	3	1	2	2	1	2	2	1	0	0	0	0	0	3	0	0	
# used by Wood Ducks:					1	2	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	
Wood Duck usage:					33%	67%	33%	33%	33%	100%	50%	0%	100%	0%	50%	0%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0%	#DIV/0!	#DIV/0!	
# used by Mergansers:					0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	
Merganser usage:					0%	0%	33%	0%	0%	0%	50%	0%	0%	50%	0%	0%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0%	#DIV/0!	#DIV/0!	
Total usage:					33%	67%	67%	33%	33%	100%	100%	0%	100%	50%	50%	0%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0%	#DIV/0!	#DIV/0!	

Usage
Total
29
10
34%
3
10%
45%

HUNTER'S POND

		Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
1	Replaced original 1995 box in 2013	1995	2013	43.0581207N, 71.8694534W	-	-	-	NEW	M	empty	M	WD	WD	empty	lost	NEW	M	empty	empty	empty	uc	uc	empty		
2	Was lost in 2013, replaced with new box	1995	2013	43.0587502N, 71.8695755W	-	-	-	NEW	WD	WD	empty	empty	WD	WD	WD	WD	empty	WD	WD	empty	empty	uc	NEW		
30	Box lost 2013. Nex box installed Feb 2013	1990	2013	43.0595474N, 71.8680649W	empty	empty	WD	WD	WD	empty	empty	WD	WD	WD	WD	WD	empty	empty	WD	empty	WD	uc	NEW		
31	Box replaced Feb 2013	1990	2013	43.0549049N, 71.8714218W	M	M	WD	empty	WD	empty	WD	WD	WD	WD	WD	WD	WD	WD	empty	empty	uc	empty			
50	Poor location, too many boxes in pond - S/B removed	1995	2011	43.0546227N, 71.8698349W	NEW	WD	WD	M	empty	WD	WD	empty	M	lost	-	-	-	-	-	-	NEW	uc	M		
72	New box installed in new location, Feb 2013	1997	2013	43.0563300N, 71.8689600W	-	-	NEW	M	empty	WD	WD	lost	-	-	-	-	-	-	-	-	-	-	NEW		
# of Boxes:					2	3	3	4	6	6	6	5	5	4	3	3	4	4	4	4	4	0	3	6	
# used by Wood Ducks:					0	1	3	1	3	3	3	3	4	3	3	3	1	2	3	0	1	0	0	0	
Wood Duck usage:					0%	33%	100%	25%	50%	50%	50%	60%	80%	75%	100%	100%	25%	50%	75%	0%	25%	#DIV/0!	0%	0%	
# used by Mergansers:					1	1	0	2	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	
Merganser usage:					50%	33%	0%	50%	17%	0%	17%	0%	20%	0%	0%	0%	25%	0%	0%	0%	0%	#DIV/0!	33%	0%	
Total usage:					50%	67%	100%	75%	67%	50%	67%	60%	100%	75%	100%	100%	50%	50%	75%	0%	25%	#DIV/0!	33%	0%	

Usage
Total
79
37
47%
9
11%
58%

JOHNSON'S POND

0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2013	
3	Box removed, New location Feb 2013	1995	2013	43.0922012N,71.8314438W	-	-	-	NEW	empty	WD	WD	WD	empty	empty	empty	WD	WD	WD	WD	M	WD	uc	M		
4	Moved Feb 2013, on shore now, was leaning back hard	2000	2006	43.0926132N,71.8274841W	-	-	-	NEW	WD	WD	WD	empty	WD	WD	WD	WD	M	WD	empty	WD	WD	uc	M		
27	New box installed, new location Feb 2013	1990	2013	43.0914993N,71.8303070W	WD	WD	WD	lost	-	NEW	WD	WD	empty	empty	empty	empty	empty	WD	WD	WD	WD	uc	M		
28	New box installed, new location Feb 2013	1994	2013	43.0904846N,71.8291931W	WD	WD	WD	lost	-	NEW	M	WD	WD	WD	WD	empty	empty	empty	empty	empty	lost	-	NEW		
# of Boxes:					2	2	2	0	2	2	4	4	4	4	4	4	4	4	4	4	3	0	3	4	
# used by Wood Ducks:					2	2	2	0	1	2	3	3	2	2	1	3	1	3	2	2	3	0	0	0	
Wood Duck usage:					100%	100%	100%	0%	50%	100%	75%	75%	50%	50%	25%	75%	25%	75%	50%	50%	100%	#DIV/0!	0%	0%	
# used by Mergansers:					0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	3	0	
Merganser usage:					0%	0%	0%	0%	0%	0%	25%	0%	0%	0%	0%	0%	25%	0%	0%	25%	0%	#DIV/0!	100%	0%	
Total usage:					100%	100%	100%	0%	50%	100%	100%	75%	50%	50%	25%	75%	50%	75%	50%	75%	100%	#DIV/0!	100%	0%	

Usage
Total
60
34
57%
8
10%
67%

LEAD MINE, LOWER

0		Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2013		
9	Should be moved/replaced during 2014 cleaning season	1994	1994	43.1094055N, 71.8469467W	WD	WD	lost	-	NEW	empty	empty	WD	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty		
11	Dump nested 2013	1998	-	43.1078568N, 71.8459015W	-	-	-	-	NEW	empty	empty	empty	empty	empty	WD	WD	WD	WD	empty	empty	empty	empty	empty	M		
17	8 flying squirrels 2013	1995	2011	43.1085320N, 71.8447342W	NEW	empty	WD	empty	WD	empty	empty	empty	M	WD	WD	WD	WD	WD	lost	-	NEW	empty	empty			
OLD	Found submerged in the ice Feb 2012	2010	lost		NEW	empty	WD	empty	empty	empty	WD	empty	WD	empty	empty	empty	empty	WD	WD	lost	WD	lost	-	-		
OLD		1995	lost		-	-	NEW	uc	empty	empty	empty	uc	empty	lost	-	-	-	-	-	-	-	-	-	-	-	
# of Boxes:					1	3	2	3	3	5	5	5	5	4	4	4	4	4	3	2	3	3	3	3	3	
# used by Wood Ducks:					1	1	2	0	1	0	1	1	1	1	2	2	2	3	1	0	1	0	0	0	0	
Wood Duck usage:					100%	33%	100%	0%	33%	0%	20%	20%	20%	25%	50%	50%	50%	75%	33%	0%	33%	0%	0%	0%	0%	
# used by Mergansers:					0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	
Merganser usage:					0%	0%	0%	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	0%	
Total usage:					100%	33%	100%	0%	33%	0%	20%	20%	40%	25%	50%	50%	50%	75%	33%	0%	33%	0%	33%	0%	0%	

Usage
Total
69
20
29%
2
3%
32%

LEAD MINE, UPPER

0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2013	2013	2013	2013
6	Moved box within upper lead mine, new Feb 2013	1994	2013	43.1115265N, 71.8494720W	empty	WD	empty	empty	WD	NEW	empty	WD	empty	empty	empty	empty	lost	-	-	-	-	-	NEW				
10	Box lost 2013. New box, new location west, same pond	1996	2013	43.1122360N, 71.8506088W	WD	WD	WD	empty	WD	WD	WD	WD	WD	empty	empty	WD	empty	WD	WD	WD	WD	WD	WD	WD	NEW		
13	Box replaced Feb 2013	1996	2013	43.1133804N, 71.8489838W	WD	lost	WD	empty	empty	NEW	empty	empty	WD	empty	lost	empty	empty	empty	empty	WD	WD	WD	WD	WD	WD	01	
# of Boxes:					3	2	3	3	3	1	3	3	3	3	2	1	2	2	2	2	2	2	2	1	3		3
# used by Wood Ducks:					2	2	2	0	2	1	1	2	2	0	0	1	0	1	0	1	1	2	2	2	1	0	
Wood Duck usage:					67%	100%	67%	0%	67%	100%	33%	67%	67%	0%	0%	100%	0%	50%	50%	100%	100%	100%	100%	100%	0%	0%	
# used by Mergansers:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Merganser usage:					0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Total usage:					67%	100%	67%	0%	67%	100%	33%	67%	67%	0%	0%	100%	0%	50%	50%	100%	100%	100%	100%	100%	0%	0%	

Usage
Total
46
24
52%
0
0%
52%

LILY POND

0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2013				
49	Box in good condition, on open water	1997	1997	43-02.772 N, 71-47.929 W	-	-	NEW	empty	WD	WD	empty	M	WD	WD	WD	WD	empty	M	WD	WD	WD	WD	M					
47	Box needs number plate, box in good condition	1997	1997	43-02.749N, 71-47.880W	-	-	NEW	empty	WD	WD	WD	empty	WD	WD	WD	WD	M	empty	empty	empty	empty	WD	empty					
OLD		2003	lost		-	-	-	-	-	-	-	-	-	NEW	WD	WD	empty	empty	empty	empty	empty	empty	lost	lost				
OLD		2006	lost		-	-	NEW	empty	empty	lost	-	-	NEW	lost	NEW	empty	WD	WD	empty	empty	empty	lost	-	-	-	-		
# of Boxes:					0	0	0	3	3	2	2	2	2	2	3	4	4	4	4	4	4	3	3	2	2			
# used by Wood Ducks:					0	0	0	0	2	2	1	0	2	1	3	3	1	1	1	1	1	1	2	0	0			
Wood Duck usage:					#DIV/0!	#DIV/0!	#DIV/0!	0%	67%	100%	50%	0%	100%	50%	100%	75%	25%	25%	25%	25%	33%	67%	0%	0%				
# used by Mergansers:					0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0			
Merganser usage:					#DIV/0!	#DIV/0!	#DIV/0!	0%	0%	0%	0%	50%	0%	0%	0%	0%	25%	25%	0%	0%	0%	0%	50%	0%	0%			
Total usage:					#DIV/0!	#DIV/0!	#DIV/0!	0%	67%	100%	50%	50%	100%	50%	100%	75%	50%	50%	25%	25%	33%	67%	50%	0%	0%			

Usage
Total
49
21
43%
4
8%
51%

MUD POND

0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Aaron	Aaron	Usage	Usage	
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	Usage	2013	
62		2011	2011	43.1127625N, 71.8423615W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NEW	empty	M			
63	Needs to be moved 2013	2011	2011	43.1132736N, 71.8429447W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NEW	WD	M			
# of Boxes:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	
# used by Wood Ducks:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
Wood Duck usage:					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	50%	0%	0%	0%
# used by Mergansers:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
Merganser usage:					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0%	100%	0%	0%
Total usage:					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	50%	100%	0%	0%

Usage
Total
6
1
17%
2
33%
50%

PATTERN MARSH

0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Aaron	Aaron	
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	Usage	Usage
43	Box removed. New location required.	1994	2002		empty	M	WD	WD	empty	empty	WD	WD	NEW	WD	WD	empty	empty	empty	empty	empty	empty	empty	empty	empty	
44	Mouse nest found	1994	2002		WD	WD	WD	empty	NEW	WD	empty	lost	NEW	empty	empty	empty	WD	empty	WD	WD	WD	uc	empty	empty	
OLD		1994	lost		empty	empty	WD	empty	empty	empty	WD	empty	WD	empty	empty	empty	empty	empty	empty	empty	empty	empty	lost	-	
# of Boxes:					3	3	3	3	2	3	3	2	1	3	3	3	3	3	3	3	3	3	2	2	-
# used by Wood Ducks:					1	1	3	1	0	1	2	1	1	1	1	1	0	1	1	1	1	0	0	0	1
Wood Duck usage:					33%	33%	100%	33%	0%	33%	67%	50%	100%	33%	33%	33%	0%	33%	33%	33%	33%	0%	0%	0%	0%
# used by Mergansers:					0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Merganser usage:					0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Total usage:					33%	67%	100%	33%	0%	33%	67%	50%	100%	33%	33%	33%	0%	33%	33%	33%	33%	0%	0%	0%	0%

Usage
Total
52
17
33%
1
2%
35%

PLEASANT POND ROAD

[illegible]

Usage
Total
33
5
15%
1
3%
18%

POLING'S MARSH

0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Gary
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2013	
29	Box in poor condition 2013, should be replaced/Moved	1995	1995		NEW	WD	WD	WD	empty	empty	WD	WD	WD	WD	empty	empty	empty	WD	empty	empty	empty	uc	empty	uc	
OLD	Replace in 2013 in new location	1994	lost		WD	WD	WD	WD	WD	M	WD	WD	WD	empty	lost	-	-	-	-	-	NEW	uc	lost	lost	
OLD		2008	lost		-	-	-	NEW	empty	LOST	-	-	-	-	-	-	-	NEW	WD	empty	uc	lost	lost	lost	
# of Boxes:					1	2	2	3	2	2	2	2	2	1	1	1	1	1	2	2	2	0	1	1	
# used by Wood Ducks:					1	2	2	2	1	0	2	2	2	1	0	0	0	1	1	1	0	0	0	0	
Wood Duck usage:					100%	100%	100%	67%	50%	0%	100%	100%	50%	0%	0%	0%	0%	100%	100%	50%	0%	0%	#DIV/0!	0%	
# used by Mergansers:					0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Merganser usage:					0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	#DIV/0!	0%	
Total usage:					100%	100%	100%	67%	50%	50%	100%	100%	50%	0%	0%	0%	0%	100%	100%	50%	0%	0%	#DIV/0!	0%	

Usage
Total
31 16 52%
1 3%
55%

RESERVOIR MARSH

		Aaron																						
0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2013
32	Good location, box in good condition	2000	2007	43.0505257N 71.8394470W	empty	empty	empty	empty	empty	empty	-	lost	-	-	-	-	NEW	empty	empty	empty	WD	uc	empty	
37	Box in good condition, in good location	2007	2007	43.0499191N 71.8364487W	empty	empty	empty	lost	empty	empty	-	lost	-	-	-	-	NEW	empty	WD	empty	empty	uc	empty	
38	Box in good condition, close to #32... move?	2007	2007	43.0503998N 71.8383331W	empty	lost	NEW	WD	new	WD	empty	lost	-	-	-	-	NEW	empty	WD	WD	M	uc	empty	
OLD	Nowhere to be found	2008	lost				M	WD	WD	WD	M	WD	WD	WD	WD	uc	uc	NEW	empty	empty	empty	uc	lost	lost
# of Boxes:					3	3	3	3	2	2	3	2	1	1	1	1	1	3	4	4	4	0	3	3
# used by Wood Ducks:					0	0	0	2	1	1	2	1	1	1	1	0	0	0	2	1	1	0	0	0
Wood Duck usage:					0%	0%	0%	67%	50%	50%	67%	50%	100%	100%	0%	0%	0%	0%	50%	25%	25%	#DIV/0!	0%	0%
# used by Mergansers:					0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0
Merganser usage:					0	0	33%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	#DIV/0!	0%
Total usage:					0%	0%	33%	67%	50%	50%	100%	50%	100%	100%	0%	0%	0%	0%	50%	25%	50%	#DIV/0!	0%	0%

Usage
Total
47 13
28%
3 6%
34%

WILKIN'S CEMETARY

0	0	Year Box	Current	GPS	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Aaron	Usage
ID#	Box Notes	Placed	Box Year	LAT/LONG	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2013	2013
5	New box in new location Feb 2013	1996	2013		empty	WD	empty	WD	empty	WD	empty	empty	WD	WD	WD	empty	M	empty	lost	OPEN	NEW	uc	NEW	
OLD	Could not find, beaver dam burst, no more pond	1996	lost		WD	WD	empty	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	empty	empty	WD	M	uc	lost	lost
# of Boxes:					2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0
# used by Wood Ducks:					1	2	0	2	1	2	1	1	2	2	2	1	1	2	1	1	0	0	0	0
Wood Duck usage:					50%	100%	0%	100%	50%	100%	50%	100%	100%	100%	100%	50%	100%	0%	0%	100%	0%	#DIV/0!	0%	0%
# used by Mergansers:					0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Merganser usage:					0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	100%	#DIV/0!	0%	0%
Total usage:					50%	100%	0%	100%	50%	100%	50%	100%	100%	100%	100%	50%	100%	0%	0%	100%	100%	#DIV/0!	0%	0%

Usage
Total
31 19
61%
2 6%
68%