



**Common Tern Habitat Improvement Project:
2013 Buffalo Harbor Tern Colony
Enhancements and Status Assessment**

Niagara Power Project (FERC No. 2216)

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1.0 INTRODUCTION

The New York Power Authority (NYPA) is pursuing several habitat improvement projects (HIPs) benefiting birds and other wildlife as part of the Niagara Power Project Comprehensive Relicensing Settlement Agreement and the new 50-year license for the Niagara Power Project (NPP). HIPs were identified and prioritized with the help of the Niagara Ecological Standing Committee (ESC) which is composed of local groups and governmental agencies. One of the HIPs involves enhancing the nesting habitat of the Common Tern (*Sterna hirundo*) within the outer harbor in Buffalo, NY.

The Common Tern is a state-listed threatened species whose numbers have declined primarily due to loss of suitable nesting habitat. In Buffalo Harbor, Common Terns nest on three breakwaters operated by the U.S. Army Corps of Engineers. The number of nesting pairs of terns on these breakwaters comprises the largest tern colony in the Great Lakes. Although terns nest in great numbers on the concrete surface of the breakwaters, productivity of these nests is often low due to a lack suitable nesting substrate. The goal of the Common Tern HIP was to replace seasonally-deployed, gravel-filled, nesting boxes and enclosures on the breakwaters with more substantial and permanent gravel nesting substrate, which will help increase tern breeding productivity and aid the recovery of this threatened species. In 2009, two experimental habitat improvements were made to tern nesting habitat in the harbor. The first improvement involved the installation of a 12" high containment structure, perimeter fence and gravel substrate on an existing cement-surfaced breakwater which terns use as a nesting site. The second experimental improvement was the creation of new nesting habitat on a barge moored to a breakwater. Although both enhancements successfully provided suitable and productive nesting habitat for Common Terns in 2009 ([Riveredge Associates, 2010](#)), the results indicated that the breakwater enhancement was a more effective long-term method of restoring this threatened species ([Riveredge Associates, 2010](#)).

In 2010, the gravel filled containment structure on the breakwater was again monitored for use by nesting terns and was again successful at providing productive habitat ([Riveredge Associates, 2011](#)). The demonstrated success of this end cell enhancement served as a model for three additional enhancements that were subsequently constructed on the Buffalo Harbor breakwaters after the breeding season ended in fall 2010. The New York State Department of Environmental

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Conservation (NYSDEC) was able to use a grant from the NPP’s Habitat Enhancement and Restoration Fund (HERF) to cover an additional 128 linear feet (approximately 1,800 square feet) of tern nesting habitat on one of the breakwaters. The area improved via NYSDEC’s HERF grant has been fully incorporated into NYPA’s maintenance and monitoring program. The completion of these additional enhancements marked the end of the construction phase of the Common Tern HIP. In total, approximately 10,570 square feet of enhanced nesting area was created for terns ([Table 1-1](#)) on the breakwaters of Buffalo Harbor ([Figure 1-1](#)).

This report summarizes efforts to operate the Common Tern HIP in 2013. In addition, it documents monitoring efforts at all four enhancement areas during the 2013 breeding season, the second year of five years of post-construction monitoring of tern nesting.

TABLE 1-1. LOCATIONS AND AREA OF ENHANCEMENTS COMPLETED IN 2009 AND 2010

Nesting Area ID	Buffalo Harbor Breakwater	Other Names for this Breakwater	Portion of Breakwater	Approx. Area (square feet)	Date Installed	First Year Enhancement Available for Nesting Terns
CT-01	North Breakwater	Donnelly’s	Crest on South end	2,325	October 2010	2011
CT-02	Old Breakwater North	Short	Crest on North end	3,175†	October 2010	2011
CT-03	Old Breakwater North	Short	Endcell on South end	2,100	April 2009	2009
CT-04	Old Breakwater South	South	Double Endcell on North end	2,975	October 2010	2011
Total Improved Nesting Area: 10,575 (0.25acres)						

† - includes area improved via NYSDEC’s HERF project



Figure 1-1: Location of Common Tern Nesting Improvements in Buffalo Harbor

Legend

 Common Tern Nesting Improvement

0 500 1,000 2,000 Feet



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2.0 BACKGROUND

In the Great Lakes region, the Common Tern is considered an endangered species in Ohio, Illinois, Wisconsin and Vermont; a threatened species in New York, Michigan and Minnesota; and an extirpated species in Pennsylvania and Indiana ([Cuthbert *et al.*, 2003](#)).

NYSDEC has monitored and managed inland Common Tern colonies on the St. Lawrence River, Oneida Lake, and the Niagara Frontier since the late-1980s. The decline in New York's inland tern population and the low number of terns currently nesting on New York's Great Lakes can be attributed to the loss of nesting habitat and low breeding productivity due to predation, poor nesting substrate, and human disturbance. The loss of nesting habitat is primarily due to an increase in ring-billed gulls ([NYSDEC, 2013](#)).

Since 1990, Riveredge Associates has managed St. Lawrence River Common Tern colonies in an attempt to increase the number of nesting pairs of terns in the region. In 2004, Riveredge Associates was contracted by NYSDEC to monitor and manage Common Tern colonies in Buffalo Harbor and the Niagara River as well ([Harper and Adams, 2005](#); [Harper *et al.*, 2006](#); [2007](#); [2008](#); [2010](#)). Riveredge and NYSDEC management efforts have attempted to increase the amount of available nesting habitat for terns, decrease the amount of competition for nest sites with gulls, decrease the amount of predation on adults, chicks and eggs, and increase public awareness to reduce human disturbance at tern nesting sites.

2.1 Tern Nesting and Nesting Monitoring

On the Niagara Frontier, Common Terns nest on breakwaters in Buffalo Harbor and potable water intakes and power tower cribs on the upper Niagara River. Annual monitoring of Common Tern nesting on the Niagara Frontier was started in 1986 ([Adams and Batcheller, 1988](#)) and conducted almost annually since. Riveredge was contracted by NYSDEC to conduct the monitoring of Common Tern nesting colonies on the Niagara Frontier for five years from 2004 through 2008. Starting in 2009, Riveredge was contracted by NYPA to monitor the Common Tern habitat enhancements in Buffalo Harbor as part of NYPA's Common Tern HIP.

On the Niagara Frontier, Common Terns have nested at 13 sites on eastern Lake Erie and the upper Niagara River since 1986 ([Harper *et al.*, 2008](#)). In and near Buffalo Harbor, these sites

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have included breakwaters and lighthouses such as the North Breakwater (also called Donnelly's Breakwall), Reef Lighthouse, Old Breakwater North (also called Short Breakwater), and Old Breakwater South (also called South Breakwater). On the Niagara River these sites have included potable water intake structures, power tower cribs, and islands associated with water control structures for generating hydroelectric power.

During the last ten years, (2004-2013) terns have nested at nine of these sites in Buffalo Harbor and on the Niagara River. Terns were displaced from four nesting sites by gulls and cormorants. All current tern nesting sites on the Niagara Frontier are artificial structures such as breakwaters, power tower cribs, and water intakes.

The majority of Common Terns nest on three Buffalo Harbor breakwaters (North Breakwater, Old Breakwater North, and Old Breakwater South). These breakwaters are multi-level structures of concrete and armor stone. Prior to the implementation of this HIP, the nesting substrate was composed largely of broken concrete chips where the breakwaters are weathering. There was little or no cover on these structures, and tern nests and chicks were exposed to wind, waves, and weather. The sides of these concrete breakwaters are vertical, and chicks that fall off the breakwater when disturbed or frightened cannot re-access the structure and perish.

2.2 Recent Tern Management Efforts in Buffalo Harbor

Since 2004, tern management activities have included the construction of seasonal gravel nesting boxes, the installation of perimeter fences, the deployment of chick shelters, and the posting of informational signs on the Buffalo Harbor breakwaters ([Harper and Adams, 2005](#), [Harper et al., 2006](#); [2007](#); [2008](#); [2010](#); [Riveredge Associates, 2010](#)). Wooden, gravel-filled nesting boxes and enclosures were built each year to provide better nesting substrate for terns and to increase egg hatching and chick fledging rates. As many as 36 nesting boxes were built and installed on the three Buffalo Harbor breakwaters in one or more years for five years from 2004 to 2008 ([Harper and Adams, 2005](#); [Harper et al., 2006](#); [2007](#); [2008](#)). In addition, plastic perimeter fencing was installed to enclose approximately half of all tern nests to increase chick survivorship by preventing chicks from jumping off the structures. Plywood chick shelters were deployed to protect tern chicks from weather, territorial adults, and predators, and encourage chicks to remain near their nest for a longer period of time. Finally, informational signs were

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posted to inform the public of the nesting terns and to limit human disturbance. These NYSDEC Restricted Area signs list the New York State and Federal Statutes prohibiting the disturbance of Common Terns and indicate that the tern is a designated threatened species under New York State Environmental Conservation Law. Human disturbance can cause a great deal of chick mortality on the Buffalo Harbor breakwaters. If anglers or recreational boaters approach the breakwaters too closely, chicks may panic and run, becoming separated from their parents or falling off the structures and perishing. These management measures resulted in increased tern productivity on the Buffalo Harbor breakwaters from 2004 to 2008, particularly on the North Breakwater and the Old Breakwater North.

As noted in Section 1, more substantial and permanent improvements to nesting habitat on the breakwaters were initiated in 2009 and 2010 through the Common Tern HIP. The enhancements installed by the Common Tern HIP resulted in even greater increases in nest numbers and productivity as discussed later in this report.

3.0 METHODS

3.1 Operation and Maintenance of Enhanced Areas

As described in the Common Tern HIP Operation and Maintenance Plan ([Kleinschmidt Associates and Riveredge Associates, 2012a](#)), annual operation of the Common Tern HIP involves preparing the nesting area for the arrival of terns each year (*e.g.*, raking gravel level; pulling weeds; installing perimeter fence; and placing internal dividers, driftwood logs, and plywood chick shelters), maintaining the enhancements to replace missing or damaged components, and storage of temporary components at the end of the nesting season (*e.g.*, off-site storage of fencing, dividers, and chick shelters; moving driftwood away from edges of breakwaters).

In mid-April 2013, before terns had arrived in Buffalo Harbor from their wintering grounds, the four enhanced areas of the Buffalo Harbor breakwaters were inspected to determine maintenance needs. Gravel that had been displaced by winter storms was raked and shoveled back to the edge of the containment frame on the lake side of the breakwater so that no areas of bare cement remained. Lumber (2x4, 2x6, and 1x3 lath), 3/16" mesh plastic fencing, and chick shelters were transported to each area to prepare them for the nesting season. The lumber and

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fencing were used to divide the enhanced area into subsections. Boards were screwed together and lath uprights and tensioning rope were used to support the plastic fencing for interior dividers. Dividing each nesting area into subsections facilitated counting nests and chicks and prevented chicks from moving too far from their natal nest site during the breeding season. Driftwood, stored away from the edge of the breakwaters over the winter, was moved back into place on the gravel to provide additional structure and separation among nesting terns. A plastic perimeter fence was installed to prevent chicks from jumping off the nesting area when disturbed and to reduce the chance chicks might be blown off the structure by strong winds. As tern eggs began to hatch, chicks shelters were placed adjacent to nests to provide cover for chicks from adverse weather and predators.

After the breeding season, in late August or early September, the plastic fencing, lumber, and chick shelters were transported to shore for storage. Some items, such as driftwood, were left on site during the winter.

3.2 Monitoring of Enhanced Nesting Areas

In 2013, monitoring of the Common Tern HIP documented the number and productivity of Common Tern nests on the enhanced areas of the breakwater. Each nesting site was surveyed approximately once every 10 days from May through June, with additional spot checks at selected sites in July and August. Monitoring generally followed the methods used for recent surveys ([Harper *et al.*, 2010](#); [Riveredge Associates, 2010](#), [2011](#), [2012](#), [2013](#)) but was less frequent in 2013 at the request of NYSDEC.

Tern colonies were surveyed approximately once every 1-2 weeks as weather and colony conditions permitted. Two to five people participated in each site survey. During periods where tern chicks were highly mobile, the frequency of colony surveys was reduced to limit the number of chicks that might jump off the breakwaters. Surveys were not conducted on windy days when older chicks are close to flying age. Chicks over 15 days old can be blown off the colony simply by opening their partially feathered wings. At this age, their flight feathers are long but the chicks are not yet capable of flight. If strong winds blow the chicks off the colony, they fall in the water and die. Mid-to-late June surveys were often shortened or canceled due to the potential to lose a great number of chicks off the breakwaters.

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Field notes collected during each monitoring event included the date, general weather conditions, the number of nests counted, the number of live chicks and eggs present, the number of dead chicks and broken eggs present, and other pertinent information. Methods used were similar to methods previously used for monitoring Common Terns in Buffalo Harbor (*e.g.*, [Harper et al., 2008](#)).

On each survey, nests in selected subsections of each enhanced area were monitored to determine the number of chicks that hatched and fledged. Individual nests were numbered with painted rocks and permanent marker and the numbers of eggs or chicks in the nest recorded. In addition, live chicks were counted and banded on each survey, and dead chicks were counted and removed from the colony.

A subset of tern chicks was banded with Incoloy (stainless steel) leg bands. Chicks were banded at approximately five days of age and older. Efforts were made to band all chicks produced by early nesters within selected sections of the enhancement area of the breakwater to provide an accurate total chick count and to provide data on productivity, survivorship, and post-fledging dispersal.

In an effort to limit mink depredation on terns, NYSDEC issued a nuisance mink permit and mink traps were deployed on the North Breakwater and on the Old Breakwater South.

3.3 Data Analysis

The number of tern nests and the number of tern chicks that survived to fledging were used to assess the success of the enhanced nesting areas. Average productivity, based on the sections monitored, was calculated by counting the total number of tern chicks fledged and dividing this value by the number of tern nests that produced these chicks to calculate the average number of chicks fledged per nest. Productivity for this year was compared to the productivity of these breakwaters from previous years (*e.g.*, [Harper et al., 2010](#); [Riveredge Associates, 2010](#), [2011](#), [2012](#)) and used to assess the success of the tern nesting habitat improvements. In addition to determining productivity, maintenance and monitoring needs (*e.g.* number of shelters, needed repairs) were also noted to assist with future implementation of the Common Tern HIP.

4.0 RESULTS

4.1 Operation and Maintenance of Enhanced Areas

Ice in the Buffalo River and Buffalo Harbor prevented access to the breakwaters until the second week of April when spring inspection was performed. The containment frames were found in good condition. Gravel displaced by winter storms was shoveled back in to place ([Figure 4-1](#)), perimeter and interior fences installed, and driftwood added for structure ([Figure 4-2](#)). The North Breakwater had lost some gravel over the winter, but, after shoveling and raking, all areas had the design depth of 3" of gravel or more for tern nesting. The rectangular enhanced area on the North Breakwater (Donnelly's Breakwater) was divided into five sections of approximately equal area.

The circular end cell on the south end of the Old Breakwater North was divided into pie-shaped sections using 2x6 lumber and plastic perimeter fencing. The north end of the Old Breakwater North was divided into 10 rectangles of approximately equal area ([Figure 4-3](#)).

The enhanced area of the Old Breakwater South was divided into smaller sections in 2013 than in previous years ([Figure 4-4](#)). Ten sections were created in 2013, whereas only six sections were used in 2012 and four sections in 2011. This adaptive management was conducted in response to the greater number of nesting pairs of terns at this site. More sections were added to create smaller individual nesting areas in an effort to reduce intraspecific aggression and reduce the distance chicks could wander from their nests. Driftwood and/or chick shelters were added to provide structure and cover at each site. All spring maintenance was completed and all fencing was installed by April 16.



FIGURE 4-1. EARLY SPRING CONDITIONS ON NORTH BREAKWATER

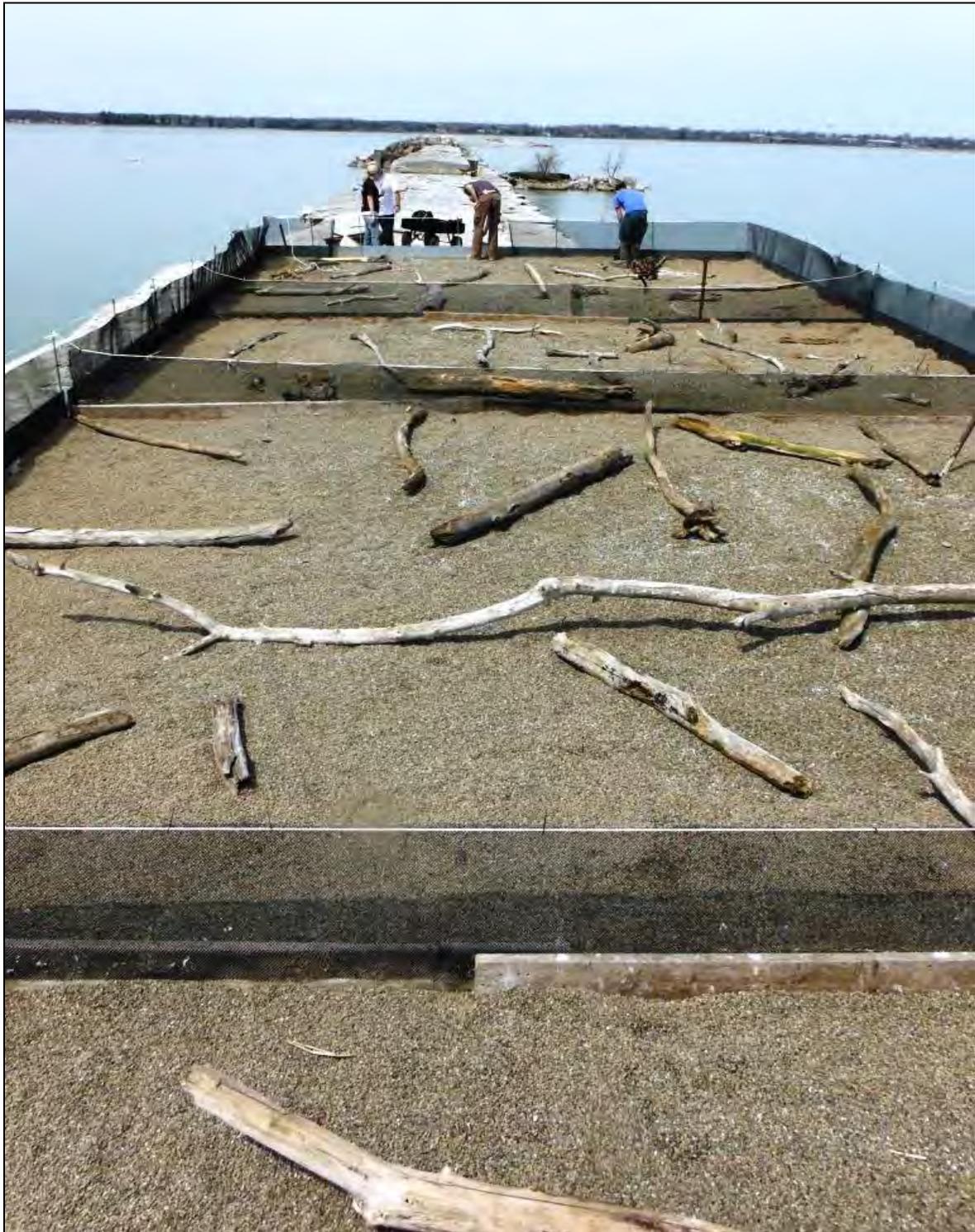


FIGURE 4-2. NORTH BREAKWATER AFTER SPRING MAINTENANCE



FIGURE 4-3. OLD BREAKWATER NORTH DURING SPRING MAINTENANCE



FIGURE 4-4. OLD BREAKWATER SOUTH DURING SPRING MAINTENANCE

4.2 Number of Nests

The first tern nests (N=4) were observed on April 21, 2013 on the Old Breakwater North. The annual nest count was conducted on May 17 at the peak of incubation and the start of egg hatching ([Figure 4-5](#)). The number of tern nests on the Buffalo Harbor breakwaters on the peak survey was 1,996, slightly lower than the 2,107 recorded in 2012. Just over half of these nests (1,068 of 1,996 or 53.5%) were located on the Old Breakwater North ([Table 4-1](#)). The remaining nests were located on the North Breakwater (N=304) and on the Old Breakwater South (N=624) ([Table 4-1](#)).

As in 2011 and 2012, the number of nests on the Old Breakwater North in 2013 was more than twice the number of nests (N=487) present in 2008 before NYPA enhancements of this breakwater were implemented. The number of nests on the Old Breakwater South in 2013 (N=624) was more than double the number of nests at this site in 2011 (N=289), and more than 13 times greater than the number of nests in 2010 (N=47). In contrast, the number of nests on the

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North Breakwater in 2013 was similar to 2012 and both 2012 and 2013 were lower than in any previous year of the last ten years ([Table 4-1](#), [Figure 4-6](#)).



FIGURE 4-5. COUNTING TERN NESTS ON THE MAY 17 PEAK CENSUS.

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TABLE 4-1. NUMBER OF TERN NESTS IN BUFFALO HARBOR, 2004-2013

Buffalo Harbor Site	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
North Breakwater (Donnelly's Breakwall)	796	975	659	747	948	663 ³	906	569	292	304
Nesting Barge (installed in 2009 only)	-	-	-	-	-	224 ³	-	-	-	-
Old Breakwater North (Short Breakwater)	183	317	450 ¹	419	487	683 ³	882	1,030 ³	1,166	1,068
Old Breakwater South (South Breakwater)	49	84	88	71	42	30	47	289 ³	649	624
Buffalo Harbor Total: ²	1,028	1,376	1,197	1,237	1,477	1,600	1,835	1,888	2,107	1,996

¹ Estimated value

² 2009 and 2010 data for sites not monitored by Riveredge provided by NYSDEC

³ HIP enhancement occurred

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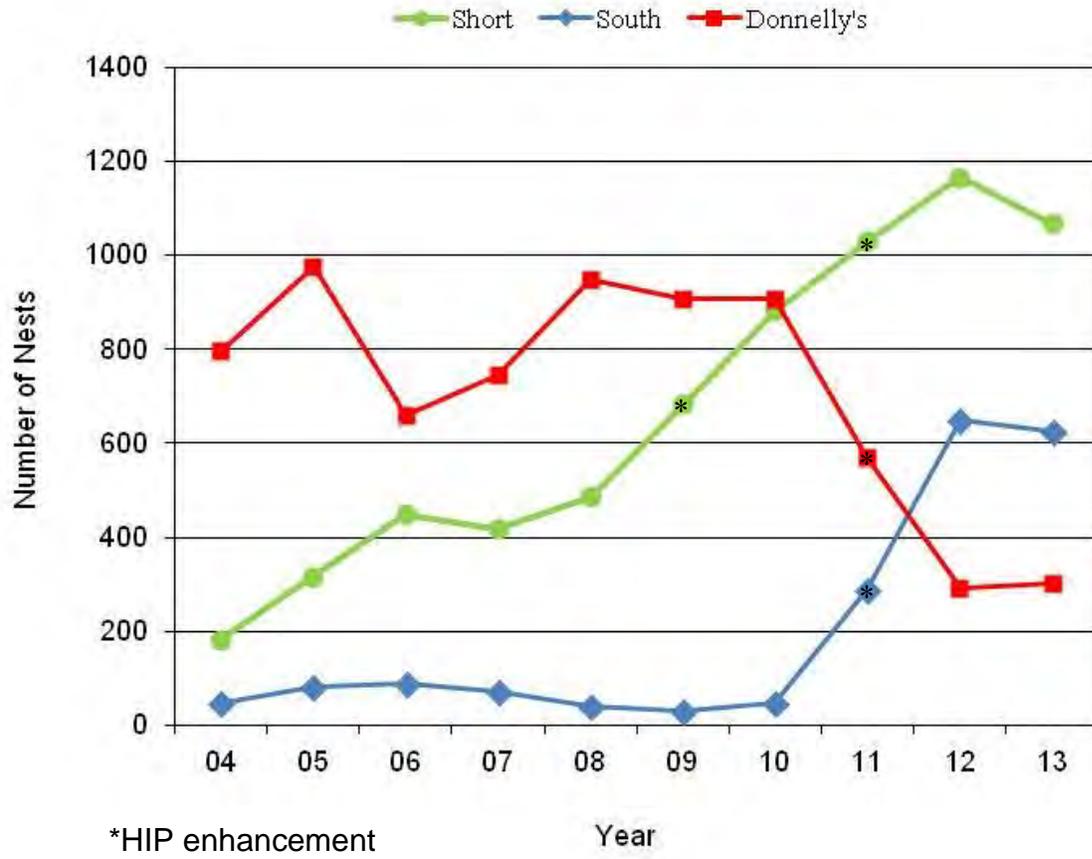


FIGURE 4-6. NUMBER OF TERN NESTS ON BUFFALO HARBOR BREAKWATERS

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4.3 Productivity

Productivity and factors that could potentially affect productivity were monitored through nest surveys and chick banding. Chick banding started during the third week of May to facilitate chick counts, measurements of chick survivorship, and the determination of productivity in terms of chicks fledged per nest. The peak period of tern hatching occurred in late May and early June, similar to the three previous years (2010-2012). For the first time since the enhancements were constructed on the North Breakwater, this site did very well. No depredation of tern eggs or chicks by mink was observed on the North Breakwater in 2013. In contrast, mink depredation caused the abandonment of the North Breakwater in both 2011 and 2012. Productivity (number of chicks fledged per nest) was monitored in two of the five sections of the North Breakwater. A total of 190 chicks fledged from 101 nests, or 1.9 chicks fledged per nest ([Table 4-2](#)). This is the highest productivity recorded on the North Breakwater since the HIP began, and has only been exceeded in small experimental nest boxes built 8 years ago ([Harper et al., 2006](#)). The other three enhanced areas had productivity lower than the North Breakwater, but still good. The two enhanced sections of the Old Breakwater North each produced 1.5 chicks per nest ([Table 4-2](#)). Old Breakwater South had the lowest productivity, with 1.2 chicks fledged per nest ([Table 4-2](#)).

With the exception of the North Breakwater, overall productivity on the enhanced areas of the Buffalo Harbor breakwaters was lower in 2013 than in either 2012 or 2011 ([Table 4-3](#)). As in previous years, productivity seems to be strongly related to weather conditions, and in 2013, productivity was reduced by high temperatures alternating with heavy rains. Over 2 inches of rain fell on June 1, killing a number of young tern chicks. On June 5, a waterfront concert accompanied by heavy boat traffic in the outer harbor may have reduced tern productivity at the Old Breakwater South. In addition to the concert disturbance, it began to rain early on June 6 and rained all day and in to the night, causing additional chick mortality on the Old Breakwater South. Finally, productivity on the Old Breakwater South was reduced by the depredation of chicks by mink and of adults by an avian predator. One mink was removed from the Old Breakwater South in late July under a nuisance mink trapping permit issued by NYSDEC. Exactly when mink depredation started is not known, although it was evident in mid-July when tern chicks showed injuries consistent with efforts to escape from predators. Four dead adult terns found in the Old Breakwater South nesting area showed evidence of depredation by either

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Great Horned Owls or Peregrine Falcons. Although mink depredation depressed tern productivity on this breakwater in 2013, the effects of mink in 2013 were much less than was observed on the Buffalo Harbor breakwaters in 2012 and 2011 ([Riveredge Associates, 2012](#)).

In 2011 and in 2012, terns continued to breed in Buffalo Harbor late in the summer, presumably because of a lack of available nesting habitat early in the season due to the abandonment of the North Breakwater, causing terns to renest later at the Old Breakwater North and the Old Breakwater South. In 2013, the success of the North Breakwater reduced the amount of late nesting by terns in Buffalo Harbor.

TABLE 4-2. TERN PRODUCTIVITY ON BUFFALO HARBOR BREAKWATERS 2013

Breakwater	Number of Sections Monitored	Chicks Fledged	Nests	Productivity ¹ (chicks fledged per nest)
North Breakwater	2 of 5	190	101	1.9
Old Breakwater North (north end)	3 of 11	254	170	1.5
Old Breakwater North (south end cell)	2 of 6	166	109	1.5
Old Breakwater South ²	4 of 10	254	217	1.2

¹ These values are for terns nesting in May and early June only.

² All sections were monitored; reported here are data for 4 sections with structure (driftwood/chick shelters) similar to the other breakwaters to provide comparable data.

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TABLE 4-3. TERN PRODUCTIVITY ON BUFFALO HARBOR BREAKWATERS 2004-2013

Buffalo Harbor Site ¹	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
North Breakwater ^{2, 3, 4}	0.5	0.9	0.9	0.9	0.8	-	0.0	0.0	0.1	1.9
Old Breakwater North ^{2, 3, 5}	0.3	0.5	-	1.4	1.0	1.4	1.6	1.9	1.8	1.5
Old Breakwater South ^{3, 6}	-	0.0	0.5	0.0	0.0	0.0	0.0	1.8	1.6	1.2

Values in bold are post-enhancement by the Common Tern HIP.

Footnotes:

¹ Data for sites not monitored by Riveredge was provided by NYSDEC.

² Cells with dashes mean that site was not monitored in detail that year.

³ Averages include fenced and graveled areas or nesting boxes on breakwaters where installed from 2004 to 2008.

⁴ North Breakwater was partially fenced and graveled using five gallon buckets from 2004 to 2008, and again in 2009 and 2010; the south end was fully enhanced and operated by the HIP beginning in 2011.

⁵ Old Breakwater North was partially fenced and graveled using five gallon buckets in 2007, 2008, 2009, and 2010; the end cell was fully enhanced and operated by the HIP beginning in 2009; the crest section was fully enhanced and operated by the HIP beginning in 2011.

⁶ Old Breakwater South end cell was partially fenced and graveled using five gallon buckets in 2007 and 2008; the end cell was fully enhanced and operated by the HIP beginning in 2009.

5.0 DISCUSSION

The habitat enhancements of the Common Tern HIP were very successful at attracting large numbers of nesting terns to the high quality nesting substrate provided on the Buffalo Harbor breakwaters. The number of tern nests on these sites in 2013 was similar to that of 2012. The number of tern nests in 2012 was a new record high for Buffalo Harbor during more than 25 years of tern nesting monitoring ([Figure 5.1](#)).

Averaged across the sections of the enhanced nesting areas monitored on the Buffalo Harbor breakwaters, tern productivity ranged from 1.2 to 1.9 chicks fledged per nest. The North Breakwater had the highest productivity at 1.9 chicks fledged per nest. For the first time, the North Breakwater was fully occupied and very successful. This was due to the absence of mink depredation on tern eggs and chicks.

Tern nesting productivity at all sites has been above average in recent years. Since the implementation of the NYPA Common Tern HIP in 2009, both the number of tern nests and the average productivity of these nests have increased dramatically from years before the HIP was started. From 1986 to 2003, the average productivity values of the Buffalo Harbor breakwaters was approximately 0.3 to 0.4 chicks fledged per nest when most sites did not have added nesting gravel ([Harper and Adams, 2005](#)).

In recent years, weather has played a role in the number of chicks fledged per nest on the Buffalo Harbor breakwaters ([Riveredge Associates, 2010](#), [2011](#), [2012](#), [2013](#)). In 2010, the only tern chicks that fledged in all of Buffalo Harbor came from nests on the enhanced gravel areas of the NYPA HIP ([Riveredge Associates, 2011](#)). In 2012, some of the nesting gravel was displaced by strong winter storms and large areas of bare concrete were found in late March ([Riveredge Associates, 2013](#)). The redistribution of this gravel in late March and early April before terns started nesting was successful at maintaining high average productivity of terns nesting on the HIP enhancements. Over the last three years, the containment frames and pea gravel of the NYPA HIP have provided excellent habitat for tern nesting, and overall average productivity has exceeded that recorded prior to the initiation of enhancements.

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This year, 2013, was the third straight year that mink have been removed from the breakwaters in support of tern nesting enhancements. Mink are efficient tern predators and may take eggs, chicks, and adults. Mink depredation of terns on the Buffalo Harbor breakwaters in 2011 and 2012 was greater than in 2013.

The primary goal of the Common Tern HIP is to provide long-term stable substrate that can be used by terns for many years with little maintenance. The containment frames constructed in spring 2009 and fall 2010 showed no damage from winter storms since installation. The gravel in the containment frames was only slightly displaced by winter storms in 2013 and 2011, although major displacement occurred in 2012. Nonetheless, the gravel has been redistributed each spring without replenishment or the use of heavy machinery, and a sufficient minimum depth of gravel has been available for tern nesting in each year of the HIP since its inception.

In total, the Common Tern HIP has created over 10,000 square feet of improved tern nesting habitat on the Buffalo Harbor breakwaters. The construction of these nesting habitat improvements marks the end of the implementation phase of the Common Tern HIP. Monitoring of tern nesting on these improved nesting areas started in 2011 and will continue for five years through 2015. After these five years of nest monitoring, the structures of the HIP will be inspected annually to identify maintenance and repair needs.

Over the last four years, the majority of tern chicks fledged from tern colonies on the lower Great Lakes did so from nests on the gravel provided by the Common Tern HIP in Buffalo Harbor. These birds will migrate to Central and South America during the winter and return to the lower Great Lakes in future years to breed themselves. The appearance of two new tern colonies on the Niagara River and one very large tern colony (~1,000 nests) on the Canadian side of Lake Ontario in 2013 suggests that this HIP could be assisting with the restoration of Common Tern populations throughout the lower Great Lakes. The Common Tern HIP will provide critically needed high quality nesting habitat for these birds and assist with the recovery of this threatened species in the region.

Common Tern HIP: 2013 Buffalo Harbor Monitoring

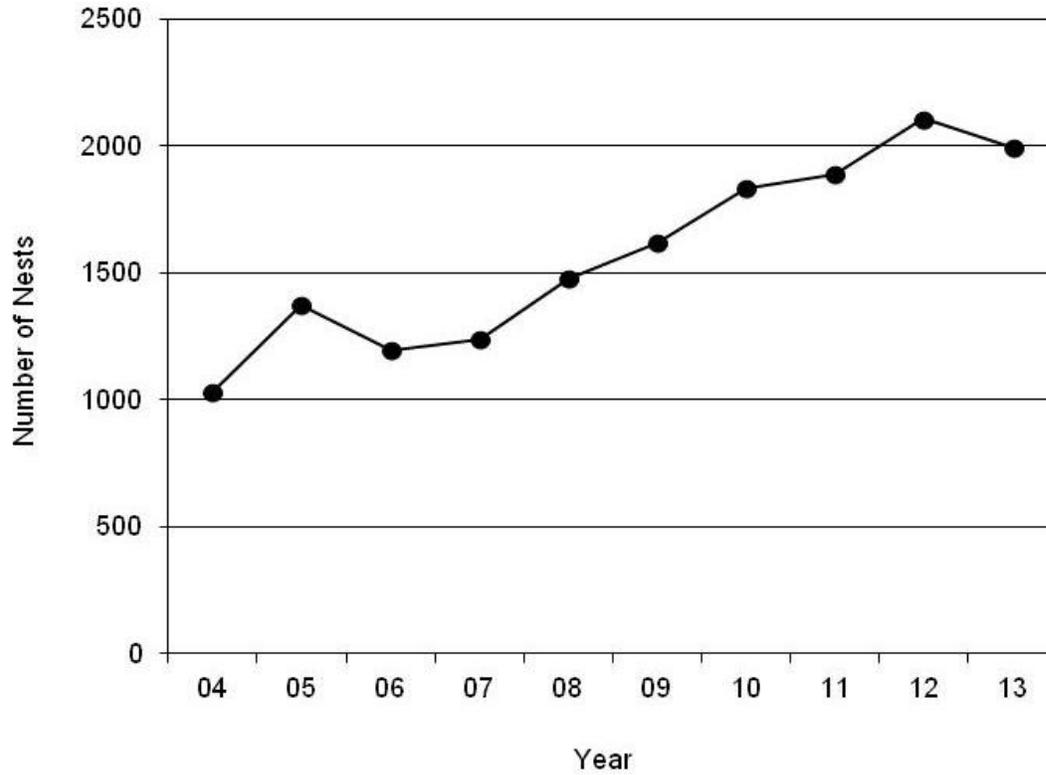


FIGURE 5-1. NUMBER OF TERN NESTS ON BUFFALO HARBOR BREAKWATERS, 2004-2013

Common Tern HIP: 2013 Buffalo Harbor Monitoring

6.0 REFERENCES

- Adams, C. and G. R. Batcheller. 1988. Status of Common Terns on the Buffalo Harbor and upper Niagara River: final report FY 1987-88. New York State Department of Environmental Conservation, Bureau of Wildlife, Region 9, Buffalo, New York. 55 pp.
- Cuthbert, F. J., Wires, L. R. and K. Timmerman. 2003. Status assessment and conservation recommendations for the Common Tern (*Sterna hirundo*) in the Great Lakes region. U.S. Department of the Interior, Fish and Wildlife Service, Fort Snelling, Minnesota. 95 pp.
- Harper, L. H. and C. M. Adams. 2005. Status assessment of Common Terns on the Buffalo Harbor and Niagara River: 2004 breeding season final report. Report prepared by Riveredge Associates for the New York State Department of Environmental Conservation, Bureau of Fish, Wildlife, and Marine Resources, Albany, New York. 26 pp.
- Harper, L. H., L. J. Harper, M. Promowicz, and C. M. Adams. 2006. Buffalo Harbor and Niagara River Common Tern status assessment and management: 2005 nesting season final report. Final report prepared by Riveredge Associates for the Nongame and Habitat Unit, New York State Department of Environmental Conservation, Albany, New York. January 31, 2006. 23 pp.
- Harper, L. H., L. J. Harper, M. Promowicz, and C. M. Adams. 2007. Status assessment and management of Common Terns on the Buffalo Harbor and Niagara River: 2006 nesting season final report. Final report prepared by Riveredge Associates for the Nongame and Habitat Unit, New York State Department of Environmental Conservation, Albany, New York. February 28, 2007. 31 pp.
- Harper, L. H., L. J. Harper, M. Wait, M. Promowicz, and C. M. Adams. 2008. Niagara Frontier Common Tern conservation and management project: 2007 nesting season final report. Final report prepared by Riveredge Associates for the Nongame and Habitat Unit, New York State Department of Environmental Conservation, Albany, New York. March 25, 2008. 39 pp.
- Harper, L. H., L. J. Harper, P. Herbert, and C. M. Adams. 2010. Niagara Frontier Common Tern conservation and management project: 2008 nesting season final report. Final report prepared by Riveredge Associates for the Nongame and Habitat Unit, New York State Department of Environmental Conservation, Albany, New York. February 26, 2010. 26 pp.
- Kleinschmidt Associates and Riveredge Associates. 2012a. Common Tern Habitat Improvement Project: Operation and Maintenance Plan. Prepared by Kleinschmidt Associates and Riveredge Associates for the New York Power Authority. April 2012. 56 pp.

Common Tern HIP: 2013 Buffalo Harbor Monitoring

- Kleinschmidt Associates and Riveredge Associates. 2012b. Common Tern Habitat Improvement Project: 5-Year Biological Monitoring Plan. Prepared by Kleinschmidt Associates and Riveredge Associates for the New York Power Authority. April 2012. 12 pp.
- New York State Department of Environmental Conservation (NYSDEC). 2004. Protocol for surveying, monitoring and managing at Common Tern colonies in upstate New York. Draft document released by Nongame and Habitat Unit, Albany. February 2004. 2 pp.
- New York State Department of Environmental Conservation (NYSDEC). 2013. Common tern fact sheet. <http://www.dec.ny.gov/animals/7100.html>. [Accessed February 22, 2013].
- Nisbet, I. C. T. 2002. Common Tern (*Sterna hirundo*). In The Birds of North America, No. 618 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, Pennsylvania. 40 pp.
- Riveredge Associates. 2010. Common Tern Habitat Improvement Project: 2009 Buffalo Harbor Tern Colony Enhancements and Status Assessment. Final Report prepared by Riveredge Associates for the New York Power Authority. March 2010. 24 pp.
- Riveredge Associates. 2011. Common Tern Habitat Improvement Project: 2010 Buffalo Harbor Tern Colony Enhancements and Status Assessment. Final Report prepared by Riveredge Associates for the New York Power Authority. January 2011. 26 pp.
- Riveredge Associates. 2012. Common Tern Habitat Improvement Project: 2011 Buffalo Harbor Tern Colony Enhancements and Status Assessment. Final Report prepared by Riveredge Associates for the New York Power Authority. January 2012. 27 pp.
- Riveredge Associates. 2013. Common Tern Habitat Improvement Project: 2012 Buffalo Harbor Tern Colony Enhancements and Status Assessment. Final Report prepared by Riveredge Associates for the New York Power Authority. March 2013. 34 pp.



**Common Tern Habitat Improvement Project:
2013 Buffalo Harbor Tern Colony
Enhancements and Status Assessment
2013 Field Data Sheets**

Niagara Power Project (FERC No. 2216)

PREPARED BY:

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PREPARED FOR:

NEW YORK POWER AUTHORITY

January 2014

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Buffalo Harbor NYPA Common Tern HIP 2013 - Survey Summary
South 5/8/13 Crew: M, S, P, H

Sec 1

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>ab</u>
		##### ##### #####	1

35 nests

Sec 2

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>ab</u>
		##### ##### ##### #####	0

44 nests

Sec 3

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>ab</u>
	## ## ##	##### ##### #####	0

42 nests

Sec 4

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>ab</u>
## 1		##### ##### ##### ##### #####	0

52 nests

Sec 5

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>4e</u>	<u>ab</u>
###	## ##	##### ##### #####	1	0

46 nests

Sec 6

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>ab</u>
## 		##### ##### ##### #####	0

52 nests

Sec 7

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>ab</u>
## 	## 1	##### ##### ##### #####	0

44 nests

Sec 8

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>ab</u>
	##	##### ##### #####	1

31 nests

Sec 9

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>4e</u>	<u>ab</u>
	1	##### ##### #####	1	0

30 nests

Sec 10

<u>1e</u>	<u>2e</u>	<u>3e</u>	<u>ab</u>
	## 	##### ##### #####	0

39 nests

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: *Short Rec* Sector: *1* Date: *5/14/13* Crew: *Hil, Meg, Stacey, etc.*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	3		21	1		41	3		61	3	
2	3		22	3		42	3		62	1e 2c	
3	3		23	3		43	3		63	3	
4	3		24	3		44	2		64	3	
5	3		25	3		45	3		65	3	
6	1		26	3		46	3		66	3	
7	3		27	3		47	3		67		
8	3		28	1		48	3		68		
9	3		29	3		49	3		69		
10	3		30	3		50	3		70		
11	2		31	3		51	3		71		
12	3		32	3		52	3		72		
13	3		33	3		53	3		73		
14	3		34	3		54	3		74		
15	3		35	2		55	3		75		
16	3		36	1		56	3		76		
17	3		37	3		57	3		77		
18	3		38	3		58	3		78		
19	3		39	1		59	3		79		
20	3		40	3		60	3		80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____
 Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs	

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: *Shoat Rec* Sector: *2* Date: *5/14/13* Crew: *Hil, Meg, Steve, Pat*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1		<i>1</i>	21		<i>3</i>	41		<i>2</i>	61		
2		<i>3</i>	22		<i>3</i>	42		<i>3</i>	62		
3		<i>2</i>	23		<i>3</i>	43		<i>3</i>	63		
4		<i>2</i>	24		<i>3</i>	44		<i>3</i>	64		
5		<i>3</i>	25		<i>3</i>	45			65		
6		<i>3</i>	26		<i>3</i>	46			66		
7		<i>3</i>	27		<i>3</i>	47			67		
8		<i>3</i>	28		<i>3</i>	48			68		
9		<i>3</i>	29		<i>3</i>	49			69		
10		<i>3</i>	30		<i>3</i>	50			70		
11		<i>3</i>	31		<i>3</i>	51			71		
12		<i>3</i>	32		<i>3</i>	52			72		
13		<i>3</i>	33		<i>3</i>	53			73		
14		<i>3</i>	34		<i>3</i>	54			74		
15		<i>3</i>	35		<i>3</i>	55			75		
16		<i>2</i>	36		<i>3</i>	56			76		
17		<i>3</i>	37		<i>3</i>	57			77		
18		<i>3</i>	38		<i>3</i>	58			78		
19		<i>3</i>	39		<i>3</i>	59			79		
20		<i>3</i>	40		<i>3</i>	60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

2013
BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *3* Date: *5/14/13* Crew: *Hil, Meg, Dave, Pat*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	<i>3</i>		21	<i>3</i>		41	<i>3</i>		61		
2	<i>3</i>		22	<i>2</i>		42	<i>2</i>		62		
3	<i>3</i>		23	<i>3</i>		43	<i>3</i>		63		
4	<i>3</i>		24	<i>1</i>		44	<i>3</i>		64		
5	<i>3</i>		25	<i>1</i>		45	<i>3</i>		65		
6	<i>3</i>		26	<i>3</i>		46	<i>3</i>		66		
7	<i>2</i>		27	<i>3</i>		47	<i>3</i>		67		
8	<i>3</i>		28	<i>3</i>		48	<i>3</i>		68		
9	<i>3</i>		29	<i>3</i>		49	<i>3</i>		69		
10	<i>3</i>		30	<i>3</i>		50	<i>3</i>		70		
11	<i>3</i>		31	<i>3</i>		51	<i>3</i>		71		
12	<i>3</i>		32	<i>2</i>		52	<i>3</i>		72		
13	<i>3</i>		33	<i>2</i>		53	<i>3</i>		73		
14	<i>3</i>		34	<i>3</i>		54	<i>3</i>		74		
15	<i>3</i>		35	<i>3</i>		55	<i>3</i>		75		
16	<i>2</i>		36	<i>3</i>		56			76		
17	<i>3</i>		37	<i>3</i>		57			77		
18	<i>3</i>		38	<i>3</i>		58			78		
19	<i>2</i>		39	<i>2</i>		59			79		
20	<i>3</i>		40	<i>3</i>		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: _____ Sector: _____ Date: 5/14/13 Crew: _____

Short Middle Wall
3e
11

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Short Circle
outside of fence
3e 2e
9 1

Total Active
2

Total Active
10

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

(12)

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: Short Circle Sector: 1 Date: 5/14/13 Crew: Hil, Meg, Steve, Pat

No.	Eggs	Cks									
1	3		21	3		41	3		61		
2	3		22	1		42	1		62		
3	3		23	1		43	3		63		
4	3		24	3		44	3		64		
5	3		25	3		45	3		65		
6	3		26	3		46	3		66		
7	3		27	3		47	3		67		
8	3		28	3		48			68		
9	3		29	3		49			69		
10	3		30	3		50			70		
11	3		31	3		51			71		
12	3		32	3		52			72		
13	1		33	2		53			73		
14	3		34	1		54			74		
15	3		35	1		55			75		
16	3		36	3		56			76		
17	3		37	3		57			77		
18	3		38	3		58			78		
19	3		39	3		59			79		
20	3		40	3		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____
 Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs	
								1

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Circle* Sector: *6* Date: *5/14/13* Crew: *Hil, Meg, Steve, Pat*

No.	Eggs	Cks									
1	1		21	3		41	3		61		
2	2		22	3		42	3		62		
3	3		23	3		43	3		63		
4	1		24	3		44	1		64		
5	3		25	3		45	3		65		
6	3		26	3		46	3		66		
7	3		27	3		47	3		67		
8	1		28	3		48	3		68		
9	3		29	3		49	3		69		
10	3		30	2		50	2		70		
11	3		31	1		51	3		71		
12	2		32	1		52	2		72		
13	2		33	3		53	3		73		
14	2		34	3		54	3		74		
15	3		35	1		55	3		75		
16	3		36	2		56	1		76		
17	3		37	2		57	3		77		
18	2		38	3		58	1		78		
19	3		39	3		59	3		79		
20	3		40	3		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____
 Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

2013

BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: *Donnelley's* Sector: *1* Date: *5/14/13* Crew: *Hil, Meg, Steve*

No.	Eggs	Cks									
1	3		21	3		41	3		61		
2	2		22	3		42	3		62		
3	3		23	3		43	3		63		
4	3		24	3		44	3		64		
5	3		25	3		45	3		65		
6	3		26	3		46	3		66		
7	1		27	3		47	3		67		
8	1		28	3		48	3		68		
9	3		29	3		49	3		69		
10	3		30	3		50	3		70		
11	3		31	3		51			71		
12	3		32	3		52			72		
13	3		33	3		53			73		
14	3		34	3		54			74		
15	3		35	3		55			75		
16	3		36	3		56			76		
17	3		37	3		57			77		
18	3		38	3		58			78		
19	3		39	3		59			79		
20	3		40	3		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____
 Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4	5				
								1

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: *Dannelley's* Sector: *2* Date: *5/14/13* Crew: *Hil, Meg, Steve*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	<i>3</i>		21	<i>3</i>		41	<i>3</i>		61		
2	<i>3</i>		22	<i>3</i>		42			62		
3	<i>3</i>		23	<i>3</i>		43			63		
4	<i>3</i>		24	<i>3</i>		44			64		
5	<i>3</i>		25	<i>3</i>		45			65		
6	<i>3</i>		26	<i>3</i>		46			66		
7	<i>3</i>		27	<i>3</i>		47			67		
8	<i>3</i>		28	<i>3</i>		48			68		
9	<i>3</i>		29	<i>3</i>		49			69		
10	<i>3</i>		30	<i>3</i>		50			70		
11	<i>3</i>		31	<i>3</i>		51			71		
12	<i>3</i>		32	<i>3</i>		52			72		
13	<i>3</i>		33	<i>1</i>		53			73		
14	<i>3</i>		34	<i>1</i>		54			74		
15	<i>1</i>		35	<i>2</i>		55			75		
16	<i>3</i>		36	<i>3</i>		56			76		
17	<i>3</i>		37	<i>3</i>		57			77		
18	<i>3</i>		38	<i>3</i>		58			78		
19	<i>3</i>		39	<i>3</i>		59			79		
20	<i>3</i>		40	<i>3</i>		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: *South* Sector: *9* Date: *5/17/13* Crew: *H, M, S, P, L, DEC*

No.	Eggs	Cks									
✓1	2		21			41			61		
✓2	2		22			42			62		
✓3	3		23			43			63		
✓4	3		24			44			64		
✓5	3		25			45			65		
✓6	3		26			46			66		
✓7	3		27			47			67		
✓8	4		28			48			68		
✓9	3		29			49			69		
✓10	3		30			50			70		
✓11	2		31			51			71		
✓12	3		32			52			72		
✓13	2		33			53			73		
✓14	1		34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

1		###					1
Old nests:		###					Total Active
Nests:		###					

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

33

2013

BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 10 Date: 5/17/13 Crew: A, M, S, P, L, DEC

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	3		21			41			61		
→ 2	3	#d egg missing	22			42			62		
→ 3	1	#d egg ab	23			43			63		
→ 4	ab		24			44			64		
✓ 5	3		25			45			65		
✓ 6	3		26			46			66		
✓ 7	3		27			47			67		
→ 8	3	#egg missing	28			48			68		
→ 9	1e + 3 ab	#egg	29			49			69		
10	2e		30			50			70		
11	3		31			51			71		
✓ 12	3		32			52			72		
✓ 13	3		33			53			73		
14	1 ab		34			54			74		
15	3		35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			
	###	###					#####
Old nests:	1	###					
Nests:		###					
		###					

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

46

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: *Short Rec* Sector: *1* Date: *5/17/13* Crew:

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67	<i>2</i>	<i>new</i>
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: *2 tossed over*
 Live/too young: _____ *DEC count?*

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *2* Date: *5/17/13* Crew:

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45	<i>2</i>	<i>new</i>	65		
6			26			46	<i>1</i>		66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: *Smart*

Sector: *3*

Date: *5/17/13*

Crew:

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56 ²			76		
17			37			57 ¹			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

new

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today:
Live/prev. banded:
Live/too young:

Dead/Banded:
Dead/Unbanded:

Total live chicks:

Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests:
Nests:

New nests:

Total Active

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

²⁹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~293~~ - SURVEY SUMMARY

Colony: *Short Corchle* Sector: *1* Date: *5/17/13* Crew: *H, M, S, P, L, DEC*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	3		21	3		41	3		61		
2	3		22	1		42	<i>lap</i>		62		
3	3		23	1		43	<i>lap</i>		63		
4	3		24	3		44	<i>lap</i>		64		
5	3		25	<i>missing</i>		45	3		65		
6	3		26	3		46	3		66		
7	<i>1e 1 broken</i>		27	3		47	3		67		
8	3		28	2		48	<i>new</i>		68		
9	<i>lap</i>		29	3		49			69		
10	3		30	3		50			70		
11	3		31	3		51			71		
12	2		32	2		52			72		
13	1		33	2		53			73		
14	3		34	3		54			74		
15	30		35	1		55			75		
16	3		36	3		56			76		
17	3		37	3		57			77		
18	3		38	3		58			78		
19	3		39	3		59			79		
20	3		40	3		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: *1*
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: _____ New nests: *1* Total Active

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

47

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: Shant Circle Sector: 2 Date: 5/17/13 Crew: H, M, S, P, L, DEC

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

1e 2c
1e 1c
2c
1c
2c
3c

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

2 6 47

Old nests: _____ New nests: _____ Total Active

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

Col

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: Short Circle Sector: 3 Date: 5/17/13 Crew: H, M, S, P, L, DEC

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

le lc
le lc 1 dead pip
4c
2c
lc le
le 2c
2c le
2c
2c le

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
Banded today: _____ Dead/Banded: _____
Live/prev. banded: _____ Dead/Unbanded: |
Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
x2	x2	x2	x2	x1			
Old nests:					New nests:		Total Active
Nests:							78

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: Short Circle Sector: 4 Date: 5/17/13 Crew:

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

102c

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count- _____

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
60	14	78	7				###

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

1060

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: Short Circle Sector: 5 Date: 5/17/13 Crew: H, M, S, P, L, DEC

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

2e 1c
3c

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: 26 New nests: 10

Total Active

84

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: *Short Circle* Sector: *4* Date: *5/17/13* Crew: *H, M, S, P, L, DEC*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	1		21	3		41	3		61	1	
2	2		22	3		42	3		62		
3	3		23	3		43	3		63		
4	3		24	3		44	no eggs		64		
5	3		25	3		45	3		65		
6	3		26	3		46	3		66		
7	2		27	3		47	3		67		
8	1		28	3		48	3		68		
9	2		29	2		49	2 e 1c		69		
10	3		30	2		50	2		70		
11	3		31	1		51	3		71		
12	3		32	1		52	1 e 1c		72		
13	2		33	3		53	3		73		
14	3		34	3		54	3		74		
15	3		35	2		55	3		75		
16	3		36	2		56	1		76		
17	3		37	2		57	3		77		
18	2		38	3		58	1 ab		78		
19	3		39	3		59	3		79		
20	3		40	3		60	1	<i>New</i>	80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
11								1

Old nests: _____ New nests: _____ Total Active: **61**

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Donnelley's* Sector: *1* Date: *5/17/13* Crew: *H, M, S, P, L, DEC*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

new

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____
 Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):
 Number of eggs in each nest: _____ Nests with Broken Aband.
 1 2 3 4 5 Eggs/Chicks Eggs Eggs

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Donnelley's* Sector: *2*

Date: *5/17/13* Crew: *H, M, S, P, L, DEC*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		



Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

May 27

2013

BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: South

Sector: 1

Date: 5/26/2013

Crew: H, P, S

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	1C	(D)	21			41	2C		61	4C	
2	1 Abandoned Egg		22			42			62		
3	0		23			43	2C		63	2E	
4	1E	(D)	24			44	4E		64		
5	3C	(D)	25			45			65	1E	
							2C 1E			2E	
6	5C		26			46	2C 1E		66		
7	2C 2E		27			47			67	5C	
8	2C 1E		28			48	3C		68		
9	2E		29			49			69		
10	3E		30			50	3E		70		
							3C				
11	1E 1C		31			51			71		
12	3E		32			52	2C		72		
13	1 Abandoned Egg		33			53			73		
14	3E		34			54	2C 1E		74		
15	3E		35			55	2C		75		
16	3E		36			56	1C 2E		76		
17	0		37			57			77		
18			38			58	4C		78		
19			39			59	1C (D)		79		
20			40			60	1C 1E		80		

Start Band: Last Band Used: Banded:

Chick count-

Banded today:
Live/prev. banded:
Live/too young:

Dead/Banded:
Dead/Unbanded:

Total live chicks: 45

Total dead cks: 4

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests: New nests: Total Active Nests:

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

MAY 27 2013

BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: South Sector: 2 Date: 5/26/2013 Crew: S, H, P

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	3E		21			41	3C 1E		61	1C 1E	
2	1DC, 1EA <small>Abandoned</small>		22			42	2E		62		
3	3C		23			43			63	3E	
4	4C		24			44	1E 1C		64	3E	
5	3C		25			45	2E		65	2E	
6	1C		26			46	3E		66	3E	
7	2C 1D		27			47	3C		67	2C	
8	4E		28			48	3E 1C		68	3C	
9	1C		29			49	2C		69	8C	
10			30			50	3E		70	2E	
11	1E		31	1D		51	2E		71	4A	
12	3C		32	6C		52	2C		72		
13			33	1C, 2D		53	3E		73		
14	1E 3C		34	3E 1D		54	2C 1E		74		
15	2E 1C		35	2E		55	2D		75		
16	1E 2C		36	3E		56	5C		76		
17			37	5C		57	1E		77		
18			38	2C		58			78		
19			39			59			79		
20			40			60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: _____
 Live/too young: _____

Total live chicks: 71 Total dead cks: 8

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			
							<u>5</u>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

May 27

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: South

Sector: 3

Date: 5/26/2013

Crew: S, H, P

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	1D		21			41	5C		61		
2	1E3C		22			42	1D		62		
3	3C		23			43	3E		63		
4	0		24			44	3C1E		64		
5	1C		25			45	4C		65		
6	3C		26			46	5C, 2D		66		
7	1C, 1D		27			47	2C		67		
8	1E, 1C, 1D		28			48	2C		68		
9	3E		29			49	3E		69		
10	1D		30			50	1D		70		
11	1C, 2E		31	2C, 3E		51	3E		71		
12	2E, 1D		32	3E, 1C		52	2E		72		
13	1C, 2E		33	1E, 2D		53			73		
14	3E		34	1C		54	2C, 1D		74		
15	3E		35	3E		55	3E		75		
16	3E		36			56	3E		76		
17			37	3E, 1D		57			77		
18			38			58	1C		78		
19			39	1E, 5C		59	2E		79		
20			40	8C		60	3E		80		

Start Band:

Last Band Used:

Banded:

Chick count-

Banded today:
Live/prev. banded:
Live/too young:

Dead/Banded:
Dead/Unbanded:

Total live chicks:

53

Total dead cks:

13

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	2	3	4	5	Number of eggs in each nest:	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs

Old nests:
Nests:

New nests:

Total Active

Other nests found/Other species observed/Notes:

NEXT TIME WE NEED:

May 27

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: South

Sector: 4

Date: 5/26/2013

Crew: S H P

No.	Eggs	Cks									
1	0		21	4C		41	1C		61		
2	2C	1DC	22	2E		42			62		
3	2C	1E	23	3C		43	3C		63		
4	3C		24	3C		44	3E		64		
5	4C		25	3E	1C	45	1C	10	65		
6	0		26	3E		46	2C	1E	66		
7	3E		27	3E		47			67		
8	2C	1E	28	3C		48	5C		68		
9	2C	1E	29	3C		49	2C	1E	69		
10	3E		30	10		50	6C		70		
11	3E		31	3E		51	20C		71		
12	3E		32	1E	1C	52	10		72		
13	3E		33	3C		53	1C	1E	73		
14	3E		34	20C		54	1C	1E	74		
15	2C		35	3C		55	2C	1E	75		
16	0		36	1C	1DC	56	3C		76		
17			37	1E	1C	57			77		
18			38	1E	1C	58	10C		78		
19			39	3C	1DC	59			79		
20			40			60			80		

Start Band:

Last Band Used:

Banded:

Chick count-

Banded today:
Live/prev. banded:
Live/too young:

Dead/Banded:
Dead/Unbanded:

Total live chicks: 67

Total dead cks: 10

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests:
Nests:

New nests:

Total Active

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

11/3/27

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: South Sector: 6 Date: 5/26/2013 Crew: S, H, P

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	2C	1E	21	unnumbered		41	1E 1C		61		
2	0		22			42			62	Loose Dead	
3	K	1D	23	3E		43	20 chicks		63		
4	3C		24	2C		44	2 Dead chick		64	THH	
5	4C		25	1E 1E		45	2E 2C		65		
6	0		26	2C		46	3E		66	Loose chick	
7	3C		27	3E		47	3E		67	8	
8	3C		28	3C		48	3E		68		
9	1E 1C		29			49	2C, 1E		69		
10	0		30	200		50	1C		70		
11	2C		31	1C, 2E		51	2C, 2E		71		
12	1C, 1E		32	3E		52			72		
13	1C, 2E		33	2C		53	1C 1E		73		
14	1 Dead		34	3E		54	2C		74		
15	1C, 2E		35	3E		55	2E		75		
16	3E		36	3E 1C		56			76		
17	2C		37	2E		57	4 chicks		77		
18			38	3E		58	3E		78		
19			39	3E		59			79		
20			40	3E		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: _____ Dead/Banded: _____

Live/prev. banded: _____ Dead/Unbanded: _____

Live/too young: _____

Total live chicks: 59 Total dead cks: 13

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

179127

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: South

Sector: 7

Date: 5/26/2013

Crew: S, H, P

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	
1	2C		21			41			61			
2	3C, 1E		22			42			62	Unnumbered		
3	2C, 1E		23			43			63			
4	0		24			44			64			
5	2E, 1C		25			45			65	1	2	3
6	2 Aband Egg		26			46			66			
7	3C		27			47			67			
8	0		28			48			68			
9	5C		29			49			69			
10	0		30			50			70	4		
11	3E		31			51			71	1		
12	0		32			52			72			
13	0		33			53			73	nest with Eggs		
14	3C		34			54			74	1C, 1E 3C 1C, 3E		
15	3C		35			55			75	2E, 1C 2C, 1E 1C, 1E		
16	3E		36			56			76			
17	1E, 1C		37			57			77	Loose chicks		
18	3E		38			58			78			
19			39			59			79			
20			40			60			80	Dead -		

Start Band:

Last Band Used:

Banded:

Chick count-

Banded today:

Dead/Banded:

Live/prev. banded:

Dead/Unbanded:

Live/too young:

Total live chicks: 48

Total dead cks: 5

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			
3	4	10	1	5			2

Old nests:

New nests:

Total Active

Nests:

Other nests found/Other species observed/Notes:

NEXT TIME WE NEED:

May 27

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: South

Sector: 8

Date: 5/26/2013

Crew: S, H, P

1 Banded Red

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	2C, 1E		21	1A		41	1C		61		
2	2C		22			42	1C		62		
3	1C		23	1 Dead chick		43	3E		63		
4	2 Chick Dead		24	1C Loose		44	3E		64		
5	1C, 1E		25	3E		45	2E		65		
6	3E 2C		26	2E		46	3E		66		
7	1E Abandoned		27	3C, 1E		47	1E, 1C		67		
8	3E		28			48			68		
9	3E		29	3E		49	1A		69		
10	1E Abandoned		30	3E		50	4C		70		
11	0		31	2E		51			71		
12	3E		32	10 chick		52			72		
13	3E		33	2C, 1E		53			73		
14	2E		34	3E		54			74		
15	3E		35			55			75		
16			36	2E		56			76		
17	un Numbered		37	2E		57			77		
18	2C		38	2C, 1E		58			78		
19	2E 1C		39	3E		59			79		
20	1C		40	1C		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today:
Live/prev. banded:
Live/too young:

Dead/Banded: 1 Red
Dead/Unbanded: 3

Total live chicks: 27

Total dead cks: 4

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
								4

Old nests: _____ New nests: _____ Total Active
Nests: _____

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

May 27

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: South

Sector: 9

Date: May 26 2013 Crew: S, H, P

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	1E		21			41			61		
2	1C		22	UN Numbered		42	1C, 3E		62		
3	3C		23	Acst		43			63		
4	0		24	1C, 1D		44	3 Loose chicks		64		
5	0		25	1C, 1E		45	3C		65		
6	1C		26	8 Loose chicks		46	1 Loose chick		66		
7	1E, 1C, 1D		27	2C, 1D, 1A		47			67		
8	4E, 1C		28			48			68		
9	0		29	2 Dead		49			69		
10	1C, 2E		30	8 Loose		50			70		
11	2E		31	3E		51			71		
12	2E, 1 Broken		32	3E		52			72		
13	2E		33	3E		53			73		
14	1E		34			54			74		
15			35	3C		55			75		
16			36	4 Loose		56			76		
17			37	1E		57			77		
18			38	2E		58			78		
19			39	1 Dead Loose		59			79		
20			40			60			80		

Start Band:

Last Band Used:

Banded:

Chick count-

Banded today:
 Live/prev. banded:
 Live/too young:

Dead/Banded:
 Dead/Unbanded:

Total live chicks: 43

Total dead cks: 6

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests:
Nests:

New nests:

Total Active

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

May 27

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *10* Date: *5/27/2013* Crew: *S, H, P*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	2C	2E	21			41			61		
2	(ID)	(2C)	22	<i>Unnumbered</i>		42	2E		62		
3	1C		23			43	2C		63		
4	0		24	3C		44	2C		64		
5	1C		25	2E		45	1C, 1E		65		
6	1E	1C	26	3E		46	<i>(2) Dead chick loose</i>		66		
7	2C		27	1C, 1E		47	2E		67		
8	3C		28	3E		48	3E		68		
9	3E		29	2C, 1E		49			69		
10	1E, 1C		30	1C, (ID)		50			70		
11	?		31	2C, 2E		51			71		
12	3E		32			52			72		
13	2E, 1C		33	<i>3 loose eggs</i>		53			73		
14	1A		34	<i>2 loose</i>		54			74		
15	3E		35	3E		55			75		
16	2A		36	3E		56			76		
17	3C, 2E (ID)		37	1C, 1E		57			77		
18	2C		38	2C		58			78		
19	1E, 1C		39	3E		59			79		
20			40	<i>5 loose chicks</i>		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: */*
 Live/prev. banded: */*
 Live/too young: */*

Dead/Banded:
 Dead/Unbanded:

Total live chicks: *40*

Total dead cks: *5*

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

3

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: ^{Short Rec} Sector: 1 Date: 5/27/13 Crew: H, S, P

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	2c		21	3e		41			61		
2	1e 1c		22	4c		42	1c 1dead		62	3c 1dead	
3	4c		23	1c		43	2c 1e		63		
4	1c		24			44	1c 1dead		64	1c 1dead	
5	4c		25	2c		45	2c		65	3e	
6	1 abandoned		26	1e 1c		46			66	3c 1e	
7	3c		27	2c		47	2c		67	3e	
8	2c		28	2c		48	3c		68	3e	new nests
9	2c 1dead		29	2c		49	1c 1e		69	3e	
10	1c 2e		30	2c		50	1e 2c		70	3e	
11	4c		31	1c		51	3c		71		
12	2c		32	1c		52	2c		72		
13	1dead		33	1e abandoned		53	4c		73		
14			34	4c 2dead		54	3e		74		
15	2dead		35			55	2c 1dead		75		
16	2c		36			56	2c 1dead		76		
17			37	2e 1c		57	3c		77		
18			38			58	1c 2dead		78		
19	2c		39	3c		59	3e		79		
20			40			60	1e		80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count- _____

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: ~~|||||~~
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
								1

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

empty

lose chick
 |||||
 |||||

2013
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *2* Date: *5/27/13* Crew: *H, S, P*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	<i>3e</i>		21	<i>2c</i>		41	<i>2c 1e</i>		61		
2	<i>5c</i>		22	<i>2c</i>		42	<i>1c</i>		62		
3	<i>_____</i>		23	<i>2e 3c</i>		43	<i>_____</i>		63		
4	<i>_____</i>		24	<i>1c</i>		44	<i>2c</i>		64		
5	<i>_____</i>		25	<i>_____</i>		45	<i>3e</i>		65		
6	<i>_____</i>		26	<i>1c</i>		46	<i>1e</i>	<i>new nest</i>	66		
7	<i>1c</i>		27	<i>1e 1c</i>		47	<i>3e</i>		67		
8	<i>_____</i>		28	<i>2c 1 dead</i>		48	<i>3e</i>		68		
9	<i>1c</i>		29	<i>_____</i>		49	<i>_____</i>		69		
10	<i>_____</i>		30	<i>2e</i>		50	<i>_____</i>		70		
11	<i>1 abandoned</i>		31	<i>_____</i>		51	<i>_____</i>		71		
12	<i>1c</i>		32	<i>3e</i>		52	<i>_____</i>		72		
13	<i>1c 1 dead</i>		33	<i>1 dead pip</i>		53	<i>_____</i>		73		
14	<i>1c</i>		34	<i>2c</i>		54	<i>_____</i>		74		
15	<i>_____</i>		35	<i>1 abandoned</i>		55	<i>_____</i>		75		
16	<i>1e 1c</i>		36	<i>1 abandoned</i>		56	<i>_____</i>		76		
17	<i>4c</i>		37	<i>_____</i>		57	<i>_____</i>		77		
18	<i>_____</i>		38	<i>2c 1e</i>		58	<i>_____</i>		78		
19	<i>2c 1 pip</i>		39	<i>3c</i>		59	<i>_____</i>		79		
20	<i>_____</i>		40	<i>_____</i>		60	<i>_____</i>		80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today:
Live/prev. banded:
Live/too young:

Dead/Banded:
Dead/Unbanded: *|||||* *← all ~ 2 days*

Total live chicks:

Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests:
Nests:

New nests:

Total Active

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: Short Sector: 3 Date: 5/27/13 Crew: H, S, P

empty

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	2c	1 dead	21	3e		41	2e		61		
2	3c		22	3e		42	2e		62		
3	1c	1p 1e	23	1c	1e	43	2c	1 dead	63		
4	1c	1e	24	3e	1c	44	2c		64		
5			25	1e		45	2e		65		
6			26			46			66		
7	3e		27	3e		47	1 dead		67		
8			28	1 dead		48			68		
9	1c		29	2 dead	1e	49	3e		69		
10	2e		30	1c		50	2 dead		70		
11	5c		31			51	2e		71		
12	3c		32	1e	1 dead	52	2c		72		
13	3e		33			53	1c	1 dead	73		
14	3c		34	1c		54	1 dead	1c	74		
15			35	1e	1c	55	3e		75		
16	1c	1e	36	1c		56	3e		76		
17			37	3e		57	3e		77		
18	1c	1e	38	2c		58	3e	new rock	78		
19	2c		39	1e	1c	59			79		
20	3e		40	1e	1c	60			80		

lose chicks
 |||| |||| |||| ||||
 |||| |||| ||||

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: |||| |||| |||| ||||
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: Short Sector: 1 Date: 5/27/13 Crew: H, S, P
Circle

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	3e		21	3c		41	1c		61		
2	1c 2e		22	1e		42	1ab 3c		62		
3	3e		23	1e 1c		43	1c 1dead		63		
4	3c		24	2c		44	3c 1dead		64		
5	1c 2e		25	missing		45	1c		65		
6	2c		26	2c		46	1e		66		
7	1ab		27	3c		47	2c		67		
8	3e		28	---		48	1ab		68		
9	1ab	abandoned	29	3e		49	3e	new	69		
10	3e		30	1e 4c		50	3c	new	70		
11	3e		31	1e 2c		51	3e		71		
12	1c 1e		32	3e		52	3e		72		
13	1e 1c		33	---		53	3e		73		
14	2c		34	3e		54	2e		74		
15	3c		35	---		55			75		
16	3e		36	3e 1dead		56			76		
17	1e 1c		37	3c		57			77		
18			38	3e		58			78		
19	2e 1c		39	---		59			79		
20	---		40	---		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: 1
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

empty

lose chicks
 ###/###

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP-2012 - SURVEY SUMMARY

Colony: Shart Circle Sector: G Date: 5/27/13 Crew: H, S, P

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	1e		21			41	2c 1e		61	3e	
2	2e		22	1e		42	2c 1e		62	2e	
3	3e		23	1 dead 1c		43	1c 2e		63	3e	
4	3e		24	3c		44	3e		64	3e	
5	2e 1ab		25	1e		45	2c 2e		65	3e	
6	3e		26	3c		46	3p		66	2e	
7	1c		27	4c		47	1e 1c		67	3e	
8	3e		28	1c 2e		48	3e		68	2e	
9	1c 2e		29	1e 1c		49	1c		69	3e	
10	3e		30	2e		50	2e		70	3e	
11	2c		31	1c 1ab		51	3e		71	3e	
12	3e		32	1ab		52	2c		72	3e	
13	2e		33			53	3c 2e		73		
14	3e		34	3c		54	3e		74		
15	3c		35	2e		55	1c		75		
16	2c		36	4c		56	1ab		76		
17	2c		37	2c		57	2c		77		
18	3e		38	3e		58	1ab		78		
19	3e		39	1e 2c		59	1c 2e		79		
20	1e 1c		40	2c		60	3e		80		

empty

new nests

lose chicks
||||

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: ||||
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4	5				

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

Checked traps 2013

= empty

BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: *Donnellie's* Sector: *1* Date: *5/27/13* Crew: *H, S, P*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	2e	1c	21	2c		41	2c		61		
2	3e		22	3e		42	3c		62		
3	—		23	2 dead c		43	—		63		
4	—		24	3c		44	1e abandoned		64		
5	3c		25	3c		45	1e		65		
6	2c		26	2e		46	2c		66		
7	2e		27	2c		47	2c		67		
8	abandoned 1e		28	3c		48	1c 2e		68		
9	2c		29	3c		49	1 dead 1c		69		
10	—		30	1c		50	4c		70		
11	3c		31	—		51	3e new nests		71		
12	3c		32	2c		52	2e		72		
13	3c		33	4c		53	3e		73		
14	2c		34	3c		54	2e 1c		74		
15	3e		35	1e 1c		55			75		
16	2e 1c		36	3c		56			76		
17	3e		37	2c		57			77		
18	1 pip 2c		38	2e		58			78		
19	2c		39	2e 1c		59			79		
20	2c		40	3c		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count- _____

Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: *||||*
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?)

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			
						<i> </i>	<i> </i>

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: *Donnell* Sector: *2* Date: *5/27/13* Crew: *H, S, P*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks
1	3c		21			41	1c		61		
2	2c		22	2c		42	3e	<i>new to site</i>	62		
3	1e 1e		23	1c		43	3e		63		
4	2e		24	3e		44	2e		64		
5			25	2c 1e		45	3e		65		
6	3c		26	3e		46	3e		66		
7	3c		27	2e		47	3e		67		
8	1e 1c		28	3e		48			68		
9	3c		29	2e 1c		49			69		
10	2 live 1 dead		30	1e 2c		50			70		
11	1c		31	1c		51			71		
12	4c		32			52			72		
13	3c		33	1e		53			73		
14	2c		34	1e		54			74		
15	1e 3c		35	2c		55			75		
16	2e 1c		36	1e 3c		56			76		
17	4c		37	4c		57			77		
18	2c		38	3c		58			78		
19	2e 1c		39	1e 2c		59			79		
20	1c		40	3c		60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: *|||*
 Live/too young: _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	2	3	4	5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
		<i>chicks</i>					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

2013
~~2012~~
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: South Sector: 1 Date: 8/4/13 Crew: H, M, S

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-39785 Last Band Used: 1332-39800 Banded: (1339-39901-900)

Chick count- 1339-39901-1332-3793 1
 Banded today: 1 Dead/Banded: 1
 Live/prev. banded: 1 Dead/Unbanded: 1
 Live/too young: 1

Total live chicks: 1 Total dead cks: 1
 Dead chick band #s: 1339-39901

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:				Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: 1 New nests: 1 Total Active: 2
 Nests: 2

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP-2012 - SURVEY SUMMARY

Colony: South Sector: 2 Date: 6/4/13 Crew: H, M, S

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: Last Band Used: Banded:

1332-39932-1332-40000 → New Block (73)

Chick count- 1332-45001-1332-45004

Banded today: Dead/Banded:
 Live/prev. banded: Dead/Unbanded: ### ### ||
 Live/too young: ### |

Total live chicks: Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: New nests: Total Active
 Nests:

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 3 Date: 6/4/13 Crew: H, M, S

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45005 Last Band Used: 1332-45049 Banded: (44)

Chick count-

Banded today: _____ Dead/Banded: 1
 Live/prev. banded: _____ Dead/Unbanded: |||||
 Live/too young: ||||

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 4 Date: 6/4/13 Crew: A, M, S

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45050 Last Band Used: -1332-45100 Banded: →1332-45101-1332-45129

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: ### + ## /
 Live/too young: | _____

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:



BUFFALO HARBOR NYPA COMMON TERN HIP ²⁰¹³ 2012 - SURVEY SUMMARY

Colony: *South* Sector: *5* Date: *6/13* Crew: *H, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45190* Last Band Used: *1332-45191* Banded: *(97)*

Chick count-

Banded today:
Live/prev. banded:
Live/too young:

Dead/Banded:
Dead/Unbanded: *(32)*

Total live chicks:

Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests:
Nests:

New nests:

Total Active

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 6 Date: 6/4/13 Crew: H.M.S

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45192-1332-45200 Last Band Used: 1332-45201 Banded: 1332-45252

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: (37) ~2 days
 Live/too young: #########

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: *Southern* Sector: *7* Date: *6/4/13* Crew: *H, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45253 Last Band Used: 1332-45300 Banded: 133245301 - 1332-45306

Chick count-

Banded today:
 Live/prev. banded:
 Live/too young: *|||||*

Dead/Banded:
 Dead/Unbanded: **17**

Total live chicks:

Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests:
 Nests:

New nests:

Total Active

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 8 Date: 6/5/13 Crew: H, M, S

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45307 Last Band Used: 1332-45338 Banded: (32)

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: (21)
 Live/too young: |||||

Total live chicks: _____ Total dead cks: _____
 Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	2	3	4	5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: *South* Sector: *9* Date: *6/5/13* Crew: *H, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45339* Last Band Used: *1332-45371* Banded: *73*

Chick count-
 Banded today: Dead/Banded:
 Live/prev. banded: Dead/Unbanded: *(15)*
 Live/too young: *||||*

Total live chicks: Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: New nests: Total Active
 Nests:

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: *South* Sector: *10* Date: *6/5/13* Crew: *H, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45372* Last Band Used: *1332-45400* → *1332-45401* - *1332-45424* Banded: *52*

Chick count-

Banded today: Dead/Banded:
 Live/prev. banded: Dead/Unbanded: *(10)*
 Live/too young: *8*

Total live chicks: Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: New nests: Total Active
 Nests:

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
~~2012~~ - SURVEY SUMMARY

Colony: Donnell Sector: 1 Date: 6/4/13 Crew: H, M, S

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-39601 Last Band Used: 1332-39700 Banded: 1332-39701-1332-39705

105

Chick count-

Banded today:
Live/prev. banded:
Live/too young: 11

Dead/Banded:
Dead/Unbanded: 1111

Total live chicks:

Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests:
Nests:

New nests:

Total Active

Other nests found/Other species observed/Notes:
NEXT TIME WE NEED:

BUFFALO HARBOR NYPA COMMON TERN HIP ²⁰¹³ 2012 - SURVEY

Colony: *Donnellaj's* Sector: *2* Date: *6/4/13* Crew: *1*

No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs	Cks	No.	Eggs
1			21			41			61	
2			22			42			62	
3			23			43			63	
4			24			44			64	
5			25			45			65	
6			26			46			66	
7			27			47			67	
8			28			48			68	
9			29			49			69	
10			30			50			70	
11			31			51			71	
12			32			52			72	
13			33			53			73	
14			34			54			74	
15			35			55			75	
16			36			56			76	
17			37			57			77	
18			38			58			78	
19			39			59			79	
20			40			60			80	

Start Band: *1332-39706* Last Band Used: *1332-39784* Banded: *79*

Chick count-
 Banded today: _____ Dead/Banded: _____
 Live/prev. banded: _____ Dead/Unbanded: *|||||*
 Live/too young: *|||||*

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):
 Number of eggs in each nest: Nests with Broken Aband.
 1 2 3 4 5 Eggs/Chicks Eggs Eggs

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Circle* Sector: *1* Date: *6/9/13* Crew: *H, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45649 → 1332-45700 + 1332-45701 → 1332-45703* Last Band Used: _____ Banded: *55*

Chick count-

Banded today: *55* Dead/Banded: *0*
 Live/prev. banded: _____ Dead/Unbanded: *14*
 Live/too young: *0*

Total live chicks: *55* Total dead cks: *14*

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4	5			

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes: _____

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Start Circle* Sector: *Co* Date: *6/19/13* Crew: *H. Mills*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45704* Last Band Used: *1332-45759* Banded: *1 dropped 56*

Chick count-

Banded today: *56* Dead/Banded: *0*
 Live/prev. banded: *16* Dead/Unbanded: *16*
 Live/too young: *4*

Total live chicks: *60* Total dead cks: *16*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

Dead banded adult 1182-96931 - foot caught in root mass
Colonies covered in vegetation

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Dec* Sector: *1* Date: *6/9/13* Crew: *Andrew S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45560* Last Band Used: *1332-45648* Banded: *(89)*

Chick count-

Banded today: *89* Dead/Banded: *0*
 Live/prev. banded: *3* Dead/Unbanded: *12*
 Live/too young: *3*

Total live chicks: *92* Total dead cks: *12*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *2* Date: *6/2/13* Crew: *H. M. S.*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45497* → *1332-45498* Last Band Used: *1332-45501* → *1332-4559* Banded: *63*

Chick count-

Banded today: *63* Dead/Banded: *0*
 Live/prev. banded: *0* Dead/Unbanded: *10*
 Live/too young: *0*

Total live chicks: *63* Total dead cks: *10*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *ShoA* Sector: *3* Date: *6/9/13* Crew: *HMS*
Rer

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45425* + *4998500* Last Band Used: *1332-45426* Banded: *74*

Chick count-

Banded today: *74* Dead/Banded: *0*
 Live/prev. banded: *0* Dead/Unbanded: *13*
 Live/too young: *0*

Total live chicks: *74* Total dead cks: *13*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
1	2	3	4	5			

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

2013
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2011~~ - SURVEY SUMMARY

Colony: *South* Sector: *(* Date: *6/23/13* Crew: *Hilary & Pat*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45760* Last Band Used: *1332-45766* Banded: *7*

Chick count-
 Banded today: *7* Dead/Banded: **
 Live/prev. banded: ** Dead/Unbanded: **
 Live/too young: *0*

Total live chicks: Total dead cks:

Dead chick band #s: *1332-45378*

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: New nests: Total Active Nests:

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

2013
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 2 Date: 6/23/13 Crew: HGF

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45767 Last Band Used: 1332-45772 Banded: 6

Chick count-
 Banded today: _____ Dead/Banded: 2
 Live/prev. banded: _____ Dead/Unbanded: 1
 Live/too young: 2

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: 1332-39785, 1332-45149

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 3 Date: 6/23/13 Crew: HGP

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45773 Last Band Used: 1332-45780 Banded: 3

Chick count-
 Banded today: _____ Dead/Banded: 5
 Live/prev. banded: _____ Dead/Unbanded: 1
 Live/too young: 0

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: 1332-39934, 1332-45124, 1332-39977, 1332-45091, 1332-45145

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: South Sector: 4 Date: 6/23/13 Crew: HJP

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45781 Last Band Used: 1332-45789 Banded: 9

Chick count-
 Banded today: _____ Dead/Banded: ||
 Live/prev. banded: _____ Dead/Unbanded: \
 Live/too young: 0

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: 1332-45071, 1332-45090

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:
chick w/ broken wing

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 5 Date: 6/23/13 Crew: HSP

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45790 Last Band Used: 1332-45791 Banded: 2

Chick count-

Banded today: _____ Dead/Banded: 5
 Live/prev. banded: _____ Dead/Unbanded: 1
 Live/too young: 0

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: 1332-45110, 1332-45111, 1332-45120, 1332-45030, 1332-45244

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

chick w/ broken wing

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: South Sector: 7 Date: 6/23/13 Crew: HGP

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45801 Last Band Used: 1332-45811 Banded: 11

Chick count-
 Banded today: _____ Dead/Banded: 3
 Live/prev. banded: _____ Dead/Unbanded: 4
 Live/too young: 2

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: 1332-39901, 1332-45341, 1332-45114

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP ~~2012~~ - SURVEY SUMMARY

Colony: South Sector: 4 Date: 6/23/13 Crew: A S P

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45812 Last Band Used: 1332-45834 Banded: 23

Chick count-
 Banded today: _____ Dead/Banded: 3
 Live/prev. banded: _____ Dead/Unbanded: ||||
 Live/too young: 2

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: 1332-89986, 1332-45294, 1332-45282

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

²⁰¹³
BUFFALO HARBOR NYPA COMMON TERN HIP 2012 - SURVEY SUMMARY

Colony: South Sector: 9 Date: 6/23/13 Crew: HJP

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45835 Last Band Used: 1332-45843 Banded: (9)

Chick count-
 Banded today: _____ Dead/Banded: 3
 Live/prev. banded: _____ Dead/Unbanded: 2
 Live/too young: 4

Total live chicks: _____ Total dead cks: _____

Dead chick band #s: 1332-45610, 1332-45420, 1332-45340

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

Sec 10
in Notebook
+ Shy + D, Denne 1/2/13

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *10* Date: *6/23/13* Crew: *HSP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45844* Last Band Used: *1332-45855* Banded: *12*

Chick count-
 Banded today: *12* Dead/Banded: *5*
 Live/prev. banded: Dead/Unbanded: *1*
 Live/too young: *1*

Total live chicks: *13* Total dead cks: *6*

Dead chick band #s:

- 1332-45344*
- 1332-45368*
- 1332-45366*
- 1332-45375*
- 1332-39953*

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *1* Date: *6/23/13* Crew: *HSP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45890* Last Band Used: *1332-45895* Banded: *6*

Chick count-
 Banded today: *6* Dead/Banded: *4*
 Live/prev. banded: Live/Unbanded: *1*
 Live/too young: *7*

Total live chicks: *13* Total dead cks: *5*

Dead chick band #s: *1332-45582, 1332-45569, 1332-45566, 1332-45641*

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes: _____

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *2* Date: *6/23/13* Crew: *HSP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45878* Last Band Used: *1332-45889* Banded: *12*

Chick count-
 Banded today: *12* Dead/Banded: *2*
 Live/prev. banded: *2* Dead/Unbanded: *3*
 Live/too young: *2*
 Total live chicks: *14* Total dead cks: *5*

Dead chick band #s:
1332-45597, 1332-45473

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *3* Date: *6/23/13* Crew: *HSP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45856* Last Band Used: *1332-45877* Banded: *22*

Chick count-
 Banded today: *22* Dead/Banded: *6*
 Live/prev. banded: Live/Unbanded: *8*
 Live/too young: *2*

Total live chicks: *24* Total dead cks: *14*

Dead chick band #s: *1332-45446, 1332-45482, 1332-45543, 1332-45429, 1332-45439, 1332-45454*

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Shant Circle* Sector: *1* Date: *6/23/13* Crew: *HSP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45896* Last Band Used: *1332-45900 + 1332-45931* Banded: *27*
→ 1332-45922

Chick count-

Banded today: *27* Dead/Banded: *1*
 Live/prev. banded: Dead/Unbanded: *5*
 Live/too young: *2*

Total live chicks: *29* Total dead cks: *6*

Dead chick band #s: *1332-45738*

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: New nests: Total Active
 Nests:

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: Short Circle Sector: 6 Date: 6/23/13 Crew: HGP

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-45923 Last Band Used: 1332-45950 Banded: 34

Chick count-
 Banded today: 34 Dead/Banded: 5
 Live/prev. banded: Dead/Unbanded: 4
 Live/too young: 9

Total live chicks: 43 Total dead cks: 9

Dead chick band #s: 1332-45740, 1332-45745, 1332-45751, 1332-45759, 1332-45749

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: New nests: Total Active Nests:

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Donnellegs* Sector: *1* Date: *6/23/13* Crew: *HGP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45957* Last Band Used: *1332-45961* Banded: *5*

Chick count-

Banded today: *5* Dead/Banded: *11*
 Live/prev. banded: *5* Dead/Unbanded: *1*
 Live/too young: *5*

Total live chicks: *10* Total dead cks: *12*

Dead chick band #s: *1332-39688, 1332-39748, 1332-39638, 1332-39701, 1332-39650, 1332-39711, 1332-39602, 1332-39781, 1332-39777, 1332-39671, 1332-39648*

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Donnell eggs* Sector: *2* Date: *6/23/13* Crew: *HSP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45962* Last Band Used: *1332-45975* Banded: *14*

Chick count-

Banded today: *14* Dead/Banded: *2*
 Live/prev. banded: *3* Dead/Unbanded: *3*
 Live/too young: *3*

Total live chicks: *17* Total dead cks: *5*

Dead chick band #s:
1332-39719, 1332-39720

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Donnelley's* Sector: *1* Date: *7/13/13* Crew: *H, P, BS*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-45976* Last Band Used: *1332-46000 + 1332-46001* Banded: *1332-46009* *34*

Chick count-
 Banded today: *34* Dead/Banded: *1*
 Live/prev. banded: *0* Dead/Unbanded: *3*
 Live/too young: *0*
 Total live chicks: *34* Total dead cks: *4*

Dead chick band #s:
1332-45968

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:				Nests with	Broken	Aband.
	1	2	3	4	5	Eggs	Eggs
	<i> </i>	<i> </i>					<i> </i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Donnelleys* Sector: *2* Date: *7/13/13* Crew: *H, P, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46010* Last Band Used: *1332-46020* Banded: *11*

Chick count-
 Banded today: *11* Dead/Banded: *0*
 Live/prev. banded: *2* Dead/Unbanded: *2*
 Live/too young: *2*

Total live chicks: *13* Total dead cks: *2*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	2	3	4	5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	<i> </i>	<i> </i>					<i>4</i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short REC* Sector: *1* Date: *7/18/13* Crew: *H, P, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46021* Last Band Used: *1332-46036* Banded: *16*

Chick count-
 Banded today: Dead/Banded: *0*
 Live/prev. banded: Dead/Unbanded: *3*
 Live/too young: *0*

Total live chicks: Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i> </i>	<i> </i>	<i> </i>					<i> </i>
Old nests:			New nests:			Total Active	
Nests:							

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Shart Rec* Sector: *2* Date: *7/13/13* Crew: *H, P, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46037* Last Band Used: *1332-46055* Banded: *19*

Chick count-
 Banded today: *19* Dead/Banded: *0*
 Live/prev. banded: *2* Dead/Unbanded: *2*
 Live/too young: *2*
 Total live chicks: *21* Total dead cks: *2*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
<i> </i>	<i> </i>	<i> </i>	<i>)</i>					<i> </i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *3* Date: *7/13/13* Crew: *H PMS*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46056* Last Band Used: *1332-46068* Banded: *13*

Chick count-
 Banded today: *13* Dead/Banded: *1*
 Live/prev. banded: *2* Dead/Unbanded: *5*
 Live/too young: *2*
 Total live chicks: *15* Total dead cks: *6*

Dead chick band #s:
1332-45868

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:				Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
	<i>###</i>	<i> </i>					<i>###</i>
	<i> </i>						<i> </i>
Old nests:	New nests:				Total Active		

Other nests found/Other species observed/Notes:
Dead unbanded adult

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Circle* Sector: *1* Date: *7/13/13* Crew: *H, P, M, S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: Last Band Used: Banded: *56*
1332-46669 → 1332-46681 + 1332-46101 → 1332-46106

Chick count-
 Banded today: *56* missed some went back Dead/Banded: *1*
 Live/prev. banded: *0* Dead/Unbanded: *3*
 Live/too young: *0*
 Total live chicks: *56* Total dead cks: *4*

Dead chick band #s:
1332-45899

Nest Count Summary (numbered or unnumbered?):

1	2	3	4	5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	<i> </i>	<i> </i>					<i> </i>

Old nests: New nests: Total Active Nests:

Other nests found/Other species observed/Notes:
Site overgrown w/ vegetation

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Circle* Sector: *C* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46082* Last Band Used: *1332-46100* Banded: *19*

Chick count-

Banded today: *19* Dead/Banded: *2*
 Live/prev. banded: *2* Dead/Unbanded: *2*
 Live/too young: *2*

Total live chicks: *21* Total dead cks: *4*

Dead chick band #s: *1332-45712, 1332-45926*

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i>11</i>	<i>###</i>	<i>11</i>					<i>###</i>

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:

*Rip Rap - dead chick bands found in between rocks
 1332-39914, 1332-39703, 1332-45233*

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *1* Date: *7/13/13* Crew: *HMP 5*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46107* Last Band Used: *1332-46114* Banded: *8*

Chick count-
 Banded today: *8* Dead/Banded: *0*
 Live/prev. banded: *0* Dead/Unbanded: *1*
 Live/too young: *0*
 Total live chicks: *8* Total dead cks: *1*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
	<i> </i>	<i> </i>					<i> </i>

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *2* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46115* Last Band Used: *1332-46128* Banded: *14*

Chick count-
 Banded today: *14* Dead/Banded: *2*
 Live/prev. banded: Dead/Unbanded: *0*
 Live/too young: *1*

Total live chicks: *15* Total dead cks: *2*

Dead chick band #s:
1332-37982, 1332-45010

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i> </i>	<i> </i>	<i> </i>					<i> </i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *3* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46129* Last Band Used: *1332-46145* Banded: *17*

Chick count-
 Banded today: *17* Dead/Banded: *4*
 Live/prev. banded: *17* Dead/Unbanded: *2*
 Live/too young: *0*

Total live chicks: *17* Total dead cks: *6*

Dead chick band #s: *1332-45768, 1332-89794, 1332-45052, 1332-45007*

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i> </i>	<i> </i>						<i>### 1</i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *4* Date: *7/13/13* Crew: *HMPs*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46146* Last Band Used: *1332-46153* Banded: *8*

Chick count-
 Banded today: _____ Dead/Banded: *2*
 Live/prev. banded: _____ Dead/Unbanded: *0*
 Live/too young: *0*

Total live chicks: _____ Total dead cks: *2*

Dead chick band #s:
1332-45834, 1332-45083

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i> </i>	<i> </i>	<i> </i>					<i>### </i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

*Band # 1332-46147 fell sections
 chicks - many
 - died blood
 - not from us.
 - about 6
 - mink?
 - debris?*

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *5* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46154* Last Band Used: *1332-46163* Banded: *10*

Chick count-

Banded today: *10* Dead/Banded: *1*
 Live/prev. banded: Dead/Unbanded: *5*
 Live/too young: *4*

Total live chicks: *14* Total dead cks: *6*

Dead chick band #s:

1332-45781

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
	<i> </i>	<i> </i>						<i>###</i> <i>###</i>

Old nests: New nests: Total Active Nests:

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Southern* Sector: *6* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46164* Last Band Used: *1332-46176* Banded: *13*

Chick count-
 Banded today: *13* Dead/Banded: *4*
 Live/prev. banded: Live/Unbanded: *2*
 Live/too young: *0*

Total live chicks: *13* Total dead cks: *6*

Dead chick band #s: *1332-45227, 1332-45695, 1332-45309, 1332-45799*

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i>11</i>	<i>11</i>	<i>1</i>					<i>11</i>

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *7* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46177* Last Band Used: *1332-46184* Banded: *8*

Chick count-
 Banded today: *8* Dead/Banded: *3*
 Live/prev. banded: Live/Unbanded: *5*
 Live/too young: *0*

Total live chicks: *8* Total dead cks: *8*

Dead chick band #s:
1332-45829, 1332-45832, 1332-45825

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:				Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i>1</i>	<i>11</i>	<i>11</i>					<i>444</i>

Old nests: _____ New nests: _____ Total Active *1111*
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *8* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46185* Last Band Used: *1332-46195* Banded: *(11)*

Chick count-
 Banded today: *11* Dead/Banded: *1*
 Live/prev. banded: *0* Dead/Unbanded: *0*
 Live/too young: *0*

Total live chicks: *11* Total dead cks: *1*

Dead chick band #s:
1332-45769

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i>11</i>	<i>111</i>	<i>1111</i>					<i>1111 /</i>

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *9* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46196* → *1332-46200* Last Band Used: *1332-46201* → *1332-46207* Banded: *12*

Chick count-
 Banded today: *12*
 Live/prev. banded:
 Live/too young: *2*

Dead/Banded: *1*
 Dead/Unbanded: *1*

Total live chicks: *14*

Total dead cks: *2*

Dead chick band #s:
1332-45002

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
	<i> </i>	<i> </i>						<i> </i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *10* Date: *7/13/13* Crew: *HMP S*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46205* Last Band Used: *1332-46210* Banded: *3*

Chick count-
 Banded today: *3* Dead/Banded: *3*
 Live/prev. banded: *1* Dead/Unbanded: *1*
 Live/too young: *1*

Total live chicks: *4* Total dead cks: *4*

Dead chick band #s: *1332-45822, 1332-45800, 1332-45789*

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i>1</i>	<i>1</i>	<i>1</i>					<i>1111</i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *1* Date: *8/5/13* Crew: *HMP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: _____ Last Band Used: _____ Banded: _____

Chick count-

Banded today: *3*

Dead/Banded: *3*

Live/prev. banded:

Dead/Unbanded: *3*

Live/too young: *0*

Total live chicks: *0*

Total dead cks: *6*

Dead chick band #s:

1332-46124, 1332-46114, 1332-46135

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests:

New nests:

Total Active

Nests:

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *2* Date: *8/5/13* Crew: *MHSP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46211* Last Band Used: *1332-46212* Banded: *2*

Chick count-

Banded today: *2* Dead/Banded: *0*
 Live/prev. banded: *0* Dead/Unbanded: *5*
 Live/too young: *0*

Total live chicks: *2* Total dead cks: *5*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *3* Date: *8/5/13* Crew: *MH SP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46213* Last Band Used: *1332-46214* Banded: *2*

Chick count-
 Banded today: *2* Dead/Banded: *0*
 Live/prev. banded: *0* Dead/Unbanded: *0*
 Live/too young: *0*
 Total live chicks: *2* Total dead cks: *0*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:
 NEXT TIME WE NEED:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *4* Date: *8/5/13* Crew: *MH & P*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46215* Last Band Used: *1332-46217* Banded: *3*

Chick count-
 Banded today: *3* Dead/Banded: *2*
 Live/prev. banded: *3* Dead/Unbanded: *3*
 Live/too young: *0*
 Total live chicks: *3* Total dead cks: *5*

Dead chick band #s:
1332-46146, 1332-46138

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:				Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *5* Date: *8/5/13* Crew: *MHP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46218* Last Band Used: *1332-46222* Banded: *5*

Chick count-
 Banded today: *5* Dead/Banded: *4*
 Live/prev. banded: *5* Dead/Unbanded: *4*
 Live/too young: *0*
 Total live chicks: *5* Total dead cks: *8*

Dead chick band #s: *1332-46161, 1332-45089, 1332-46181, 1332-45167*

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *6* Date: *8/5/13* Crew: *MH & P*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: _____ Last Band Used: _____ Banded: *0*

Chick count-
 Banded today: *6* Dead/Banded: *4*
 Live/prev. banded: _____ Dead/Unbanded: *4*
 Live/too young: *0*
 Total live chicks: *0* Total dead cks: *8*

Dead chick band #s: *1332-46203, 1332-46178, 1332-4616, 1332-46191*

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *7* Date: *8/5/13* Crew: *MH & P*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46223* Last Band Used: *1332-46227* Banded: *5*

Chick count-
 Banded today: Dead/Banded: *1*
 Live/prev. banded: Dead/Unbanded: *5*
 Live/too young:
 Total live chicks: Total dead cks: *6*

Dead chick band #s:
1332-46191

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:				Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: New nests: Total Active
 Nests:

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *9* Date: *8/5/13* Crew: *WH SP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46232* Last Band Used: *1332-46233* Banded: *2*

Chick count-
 Banded today: _____ Dead/Banded: *1*
 Live/prev. banded: _____ Dead/Unbanded: *1*
 Live/too young: *0*

Total live chicks: _____ Total dead cks: *2*

Dead chick band #s: *1332-46197*

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes: _____

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *10* Date: *4/15/13* Crew: *M, H, S, P*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46234* Last Band Used: *1332-46234* Banded: *1*

Chick count-
 Banded today: _____ Dead/Banded: *2*
 Live/prev. banded: _____ Dead/Unbanded: *4*
 Live/too young: _____
 Total live chicks: _____ Total dead cks: *6*

Dead chick band #s:
1332-46172, 1332-46201

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:				Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *South* Sector: *10* Date: *4/5/13* Crew: *M, H, S, P*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46234* Last Band Used: *1332-46234* Banded: *1*

Chick count-
 Banded today: _____ Dead/Banded: *2*
 Live/prev. banded: _____ Dead/Unbanded: *4*
 Live/too young: _____
 Total live chicks: _____ Total dead cks: *6*

Dead chick band #s:
1332-46172, 1332-46201

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Rec* Sector: *1* Date: *8/5/13* Crew: *M, H, S, P*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46235* Last Band Used: *1332-46266* Banded: *32*

Chick count-

Banded today: Dead/Banded: *0*
 Live/prev. banded: Dead/Unbanded: *18*
 Live/too young:

Total live chicks: Total dead cks:

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
	<i> </i>	<i> </i>						<i> </i> <i> </i>

Old nests: New nests: Total Active *||||*
 Nests:

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Shore* Sector: *2* Date: *8/5/13* Crew: *M, H, P*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46267* Last Band Used: *1332-46283* Banded: *17*

Chick count-
 Banded today: _____ Dead/Banded: *3*
 Live/prev. banded: _____ Dead/Unbanded: *6*
 Live/too young: *0*

Total live chicks: _____ Total dead cks: *9*

Dead chick band #s:
1332-46043, 1332-46027, 1332-46044

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
<i>11</i>	<i>1</i>							<i>11/1</i>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

3 dead in shelter - 2 unbanded 1 banded

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Shorpec* Sector: *3* Date: *8/5/13* Crew: *MHSP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46284* Last Band Used: *1332-46299 (No. 20)* Banded: *20*

Chick count-
 Banded today: *20* Dead/Banded: *1*
 Live/prev. banded: *0* Dead/Unbanded: *2*
 Live/too young: *0*
 Total live chicks: *20* Total dead cks: *3*

Dead chick band #s: *1332-45889*

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs
<i>1</i>	<i>11</i>						<i>111</i>
Old nests:					New nests:		Total Active <i>111</i>
Nests:							

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Circle* Sector: *1* Date: *8/5/13* Crew: *M, H, S, P*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46205* Last Band Used: *1332-46316* Banded: *14*

Chick count-
 Banded today: *14* Dead/Banded: *0*
 Live/prev. banded: *0* Dead/Unbanded: *1*
 Live/too young: *0*

Total live chicks: *14* Total dead cks: *1*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
								<i>74/11</i>

Old nests: _____ New nests: _____ Total Active Nests: _____

Other nests found/Other species observed/Notes:

*Over grown w/ veg chicks not running
 Stacc hidden*

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: *Short Circle* Sector: *6* Date: *8/5/13* Crew: *M, H, SP*

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: *1332-46319* Last Band Used: *1332-46382* Banded: *14*

Chick count-
 Banded today: *14* Dead/Banded: *0*
 Live/prev. banded: Live/Unbanded: *1*
 Live/too young: *0*

Total live chicks: *14* Total dead cks: *1*

Dead chick band #s:

Nest Count Summary (numbered or unnumbered?):

Number of eggs in each nest:		Nests with		Broken	Aband.		
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs

Old nests: _____ New nests: _____ Total Active: *14*

Other nests found/Other species observed/Notes:
Have to find dead chicks in veg - sections 1 & 6

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: DON Sector: 1 Date: 8/5/13 Crew: M, H, P

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-46333 Last Band Used: 1332-46337 Banded: 5

Chick count-
 Banded today: 5 Dead/Banded: 2
 Live/prev. banded: 5 Dead/Unbanded: 1
 Live/too young: 0
 Total live chicks: 5 Total dead cks: 3

Dead chick band #s:
1332-39630, 1332-39634

Nest Count Summary (numbered or unnumbered?):

1	Number of eggs in each nest:				5	Nests with Eggs/Chicks	Broken Eggs	Aband. Eggs
	2	3	4					
	<u>1</u>							<u>HH</u>

Old nests: _____ New nests: _____ Total Active _____
 Nests: _____

Other nests found/Other species observed/Notes:

BUFFALO HARBOR NYPA COMMON TERN HIP 2013 - SURVEY SUMMARY

Colony: Don Sector: 2 Date: 8/5/13 Crew: M, H & P

No.	Eggs	Cks									
1			21			41			61		
2			22			42			62		
3			23			43			63		
4			24			44			64		
5			25			45			65		
6			26			46			66		
7			27			47			67		
8			28			48			68		
9			29			49			69		
10			30			50			70		
11			31			51			71		
12			32			52			72		
13			33			53			73		
14			34			54			74		
15			35			55			75		
16			36			56			76		
17			37			57			77		
18			38			58			78		
19			39			59			79		
20			40			60			80		

Start Band: 1332-46338 Last Band Used: 1332-46348 Banded: (11)

Chick count-
 Banded today: _____ Dead/Banded: 0
 Live/prev. banded: _____ Dead/Unbanded: 2
 Live/too young: _____
 Total live chicks: _____ Total dead cks: 2

Dead chick band #s: _____

Nest Count Summary (numbered or unnumbered?):

	Number of eggs in each nest:					Nests with	Broken	Aband.
1	2	3	4	5	Eggs/Chicks	Eggs	Eggs	
<u>1</u>	<u>1</u>							<u>111</u>

Old nests: _____ New nests: _____ Total Active
 Nests: _____

Other nests found/Other species observed/Notes: _____