



# MANAGEMENT OF COLONIAL WATERBIRDS AT TOMMY THOMPSON PARK

CORMORANT ADVISORY GROUP  
MEETING #11

Tuesday December 4, 2012  
6:30 to 9:00 p.m.  
Metro Hall, Room 303, 55 John Street, Toronto





# AGENDA

6:30pm	<b>Welcome</b>	Ralph Toninger
6:35pm	<b>Review of 2012 colonial waterbird data and cormorant management strategy</b>	Ralph Toninger
7:30pm	<b>Update on York University studies</b>	Gail Fraser
7:45pm	<b>Proposed Strategic Approach for 2013</b> <ul style="list-style-type: none"><li>• Work plan for 2013 season</li><li>• Discussion</li><li>• Timeline</li><li>• TRCA Board Meeting</li></ul>	Ralph Toninger
8:45pm	<b>Wrap-up and next meeting</b>	Ralph Toninger



# GOAL & OBJECTIVES

## GOAL

- To achieve a balance between the continued existence of a healthy, thriving cormorant colony and the other ecological, educational, scientific and recreational values of Tommy Thompson Park.

## OBJECTIVES

- Increase public knowledge, awareness and appreciation of colonial waterbirds
- Deter cormorant expansion to Peninsula D
- Limit further loss of tree canopy on Peninsulas A, B and C
- Continue research on colonial waterbirds in an urban wilderness context



# PUBLIC CONSULTATION SUMMARY

<b>Advisory Group Meeting #10</b>	January 19, 2012	<ul style="list-style-type: none"><li>• Review the 2011 population data and monitoring program</li><li>• Review 2011 strategy and research results</li><li>• Develop the 2012 Strategy</li></ul>
<b>TRCA Board</b>	March 30, 2012	<ul style="list-style-type: none"><li>• Present the 2012 Strategy for TRCA Board action</li></ul>
<b>Colonial Waterbird Interpretation and Presentations</b>	March – November, 2012	<ul style="list-style-type: none"><li>• Winter Waterfowl event</li><li>• Spring Bird Festival</li><li>• Butterfly Festival</li><li>• York University</li><li>• Centennial College</li><li>• University of Toronto</li><li>• Winged Migration classes</li></ul>
<b>Advisory Group Meeting #11</b>	December 3, 2012	<ul style="list-style-type: none"><li>• Review the 2012 population data and monitoring program</li><li>• Review 2011 strategy and research results</li><li>• Develop the 2013 Strategy</li></ul>

# COLONIAL WATERBIRDS OF TTP, 2012



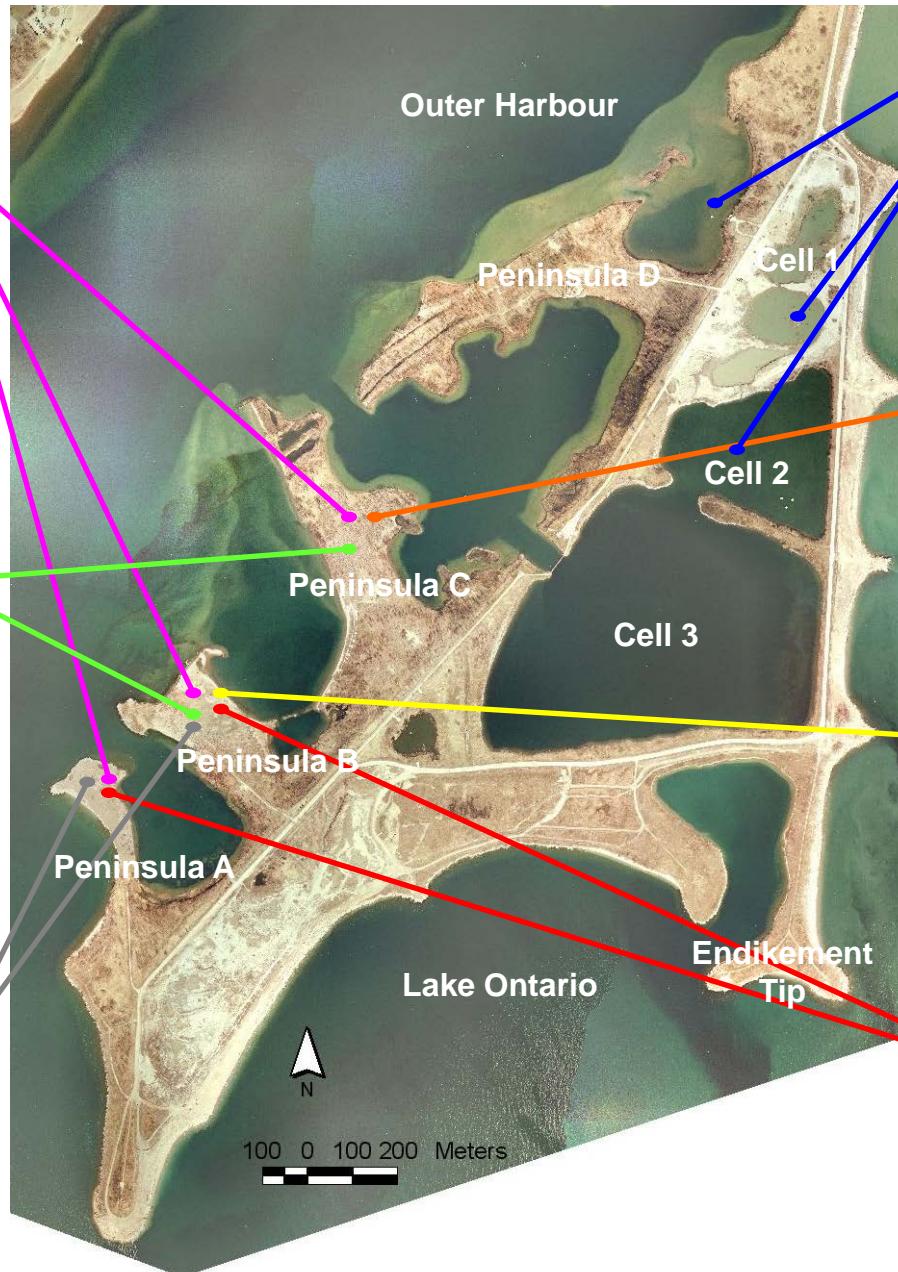
DCCO  
11,741 nests



BCNH  
410 nests



HEGU  
Not Counted



COTE  
~24 nests



GREG  
8 nests



CATE  
~5 nests



RBGU  
~32,000 nests



## DCCO NESTS BY PENINSULA

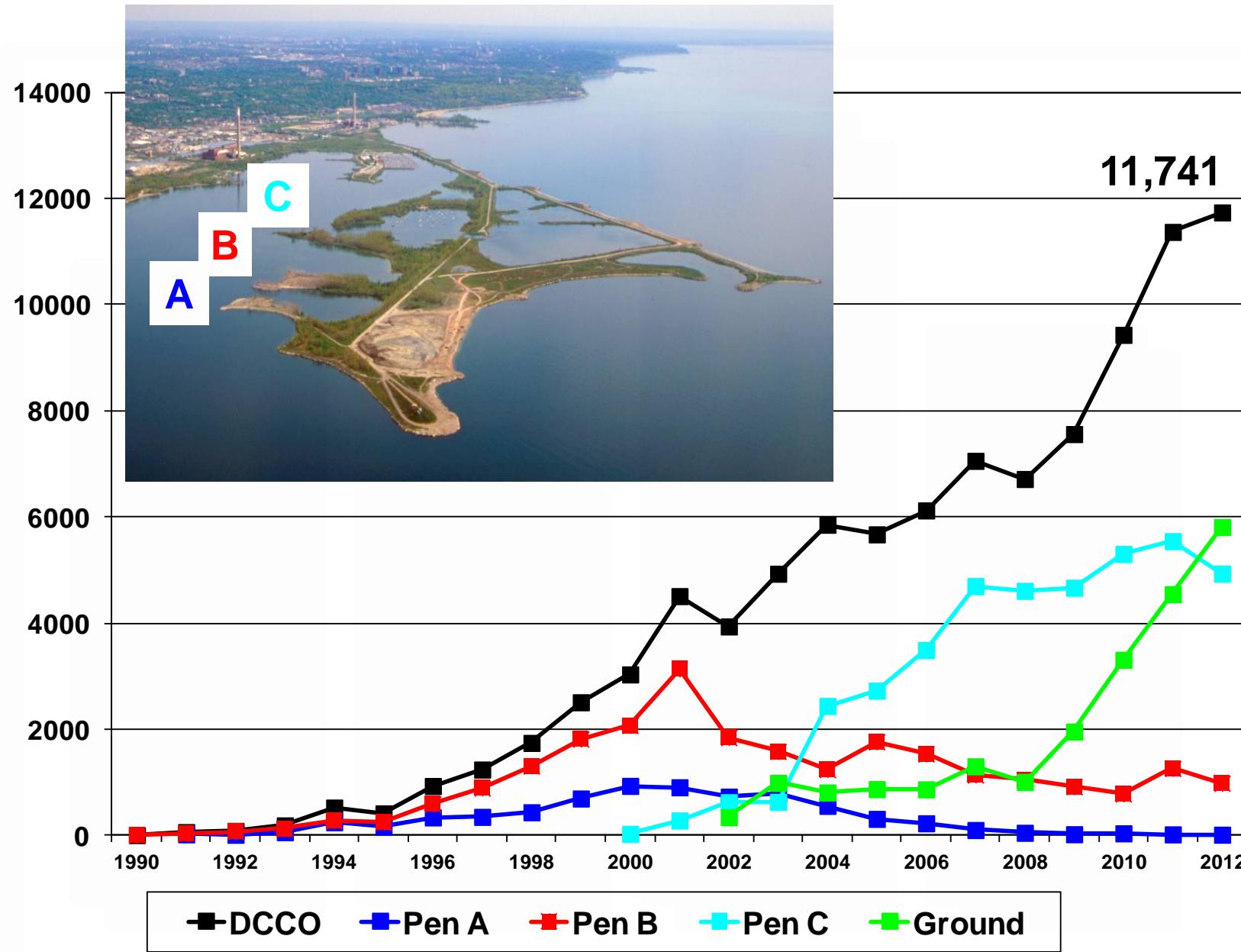


### DCCO NEST DENSITY (# Nests/Tree)

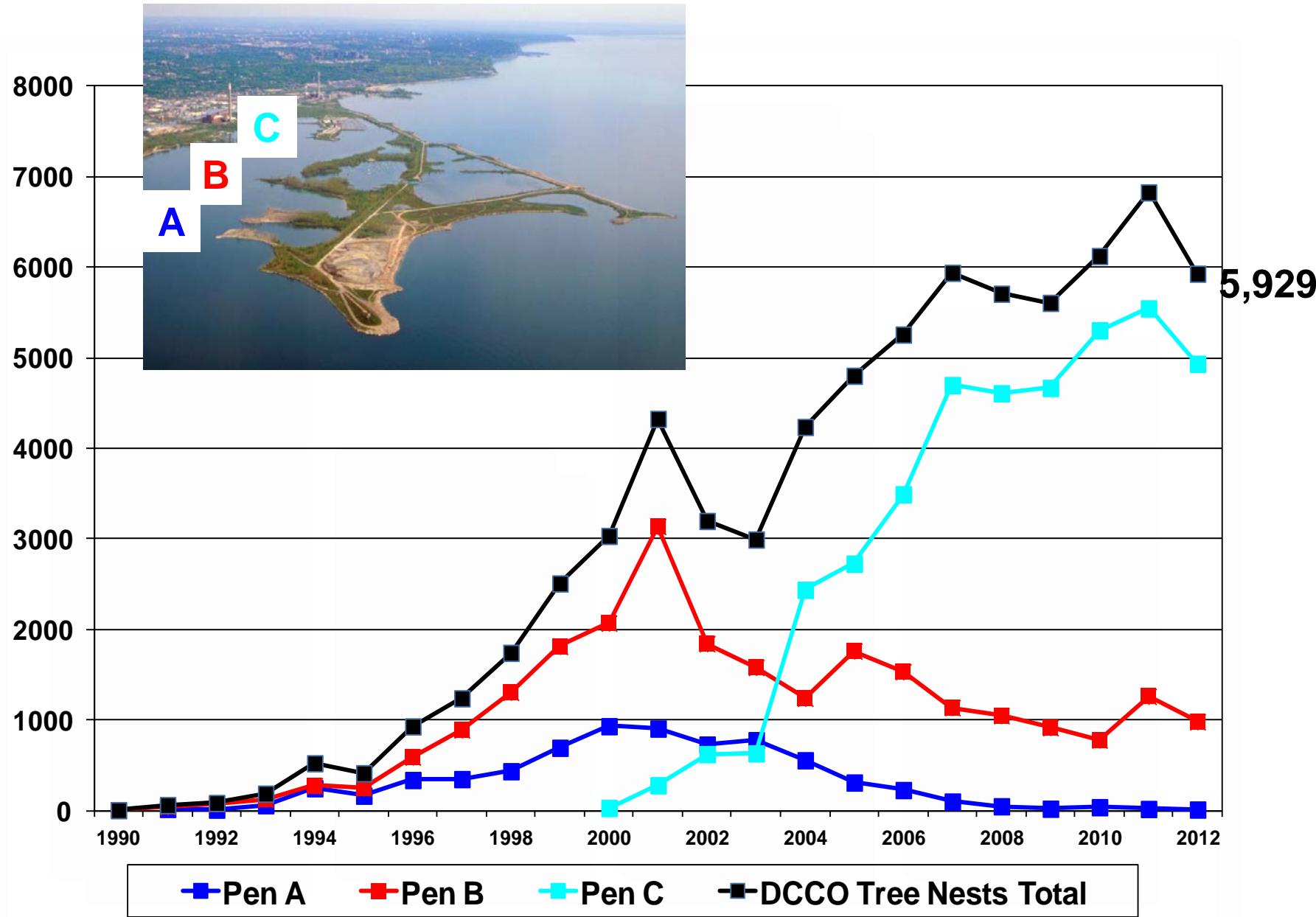
	2009	2010	2011	2012
Peninsula A	22	19.5	19	0
Peninsula B	5.12	4.82	6.64	5.99
Peninsula C	5.40	6.01	6.30	6.20

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
A	933	909	730	779	557	311	228	101	49	22	39	19	13
B	2071	3048	1844	1582	1241	1763	1535	1072	1050	917	781	1262	982
B ground			344	948	809	872	868	1302	1009	1957	3310	4547	5812
C	30	282	625	633	2439	2728	3494	4584	4609	4668	5304	5546	4934
Total	3034	4237	3543	3942	5046	5674	6125	7059	6717	7564	9434	11374	11741

# TTP DCCO – ALL NESTS BY PENINSULA



# TTP DCCO – TREE NESTS BY PENINSULA



# TTP DCCO – GROUND NEST COLONY

YEAR	AREA A (m <sup>2</sup> )	AREA B (m <sup>2</sup> )	NESTS	DENSITY
2005	180	139	872	2.73
2007	394	83	1302	2.73
2009	1327	180	1957	1.30
2010	2622	319	3310	1.13
2011	3025	559	4547	1.27
2012	3491	828	5812	1.35



50% of the entire DCCO colony nested on the ground in 2012!



## ANNUAL DCCO POPULATION CHANGE (PERCENTAGE)

	2007	2008	2009	2010	2011	2012
<b>Overall</b>	15.25	<b>-4.84</b>	12.61	24.72	20.56	3.23
<b>Peninsula A</b>	<b>-55.70</b>	<b>-51.49</b>	<b>-55.10</b>	77.27	<b>-51.28</b>	<b>-31.58</b>
<b>Peninsula B</b>	<b>-30.16</b>	<b>-2.05</b>	<b>-12.67</b>	<b>-14.83</b>	61.59	<b>-22.19</b>
<b>Pen B Ground</b>	50.00	<b>-22.50</b>	93.95	69.14	37.37	27.82
<b>Peninsula C</b>	31.20	0.55	1.28	13.62	4.56	<b>-11.03</b>



## BCNH NESTS BY PENINSULA



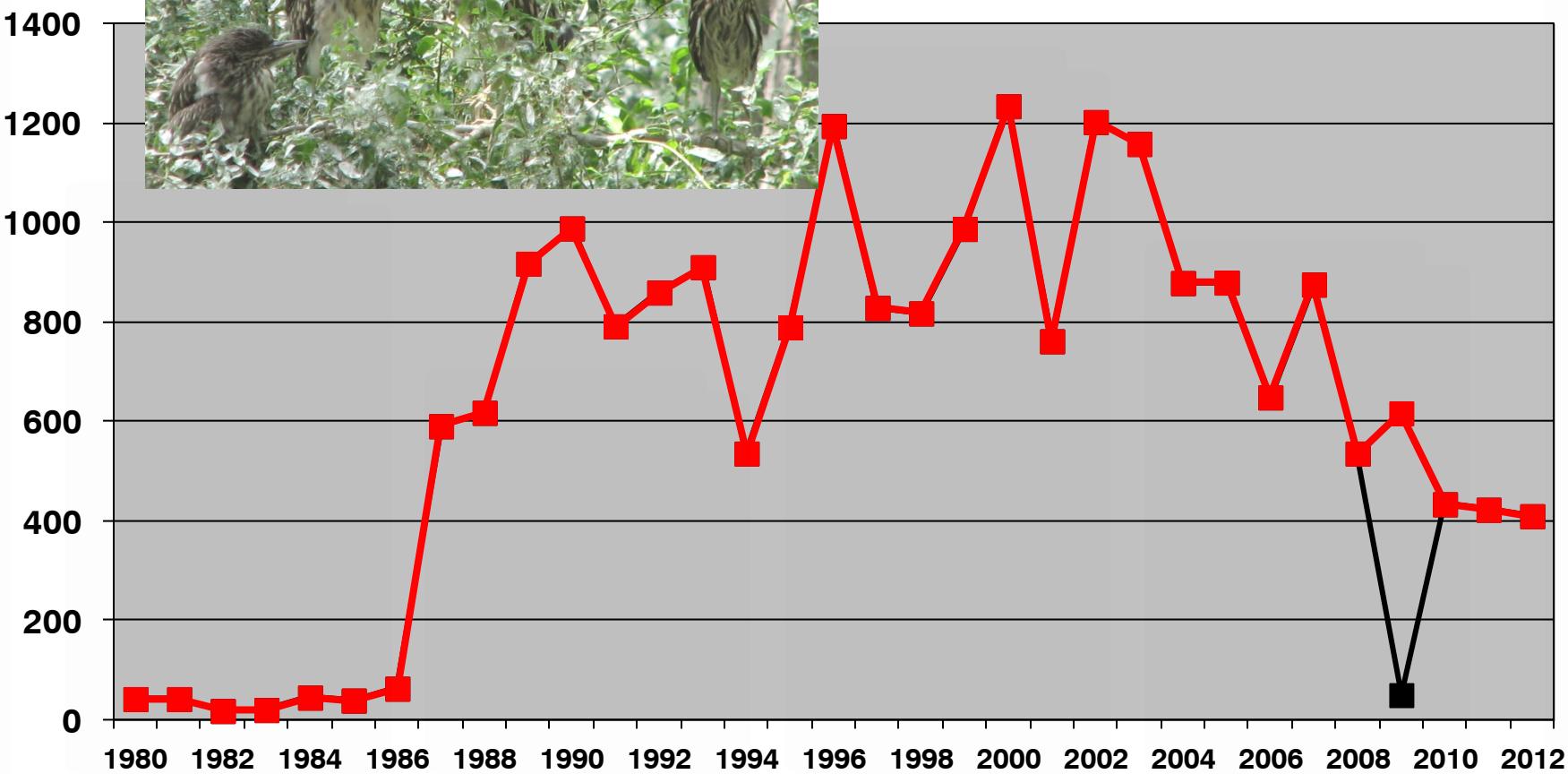
Peak nest count data collected during the last week of May, first week of June annually

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	163	255	278	270	145	146	81	38	3	100	10
C	1235	762	1040	904	601	610	504	730	455	546	431	323	400
Total	<b>1235</b>	<b>762</b>	<b>1203</b>	<b>1159</b>	<b>879</b>	<b>880</b>	<b>649</b>	<b>876</b>	<b>536</b>	<b>584*</b>	<b>434</b>	<b>423</b>	<b>410</b>

# BCNH PEAK NEST NUMBERS 1980 TO 2012



— Peak nest count numbers  
— Mid-season nest numbers





## NEW DCCO NEST TREES 2012



NEW DCCO NEST TREES			
	2010	2011	2012
<b>Peninsula A</b>	-	-	-
<b>Peninsula B</b>	7	25	7
<b>Peninsula C</b>	37	23	29
<b>TOTAL</b>	44	48	36



## DCCO NEST TREE OCCUPATION

### TREES OCCUPIED WITH DCCO

	2009	2010	2011	2012
<b>Peninsula A</b>	1	2	1	1
<b>Peninsula B</b>	179	162	190	164
<b>Peninsula C</b>	865	883	885	796
<b>TOTAL</b>	<b>1045</b>	<b>1047</b>	<b>1076</b>	<b>961</b>

### CHANGE IN TREE OCCUPANCY

	2010	2011	2012
<b>Peninsula B</b>	-10%	+17%	-14%
<b>Peninsula C</b>	+2%	+0.2%	-11%
<b>Overall</b>	+0.2%	+3%	-11%



# STRATEGIC APPROACH 2012

	Peninsula A	Peninsula B	Peninsula C	Peninsula D
<b>Inactive Nest Removal (prior to 2012 breeding season)</b>		*	*	
<b>Enhanced Ground Nesting</b>	*	*		
<b>Pre-Nesting Deterrents</b>		*	*	*
<b>Post-Breeding Deterrents</b>			*	*



# DCCO CONSERVATION ZONES





## DCCO DETERRENT AREAS

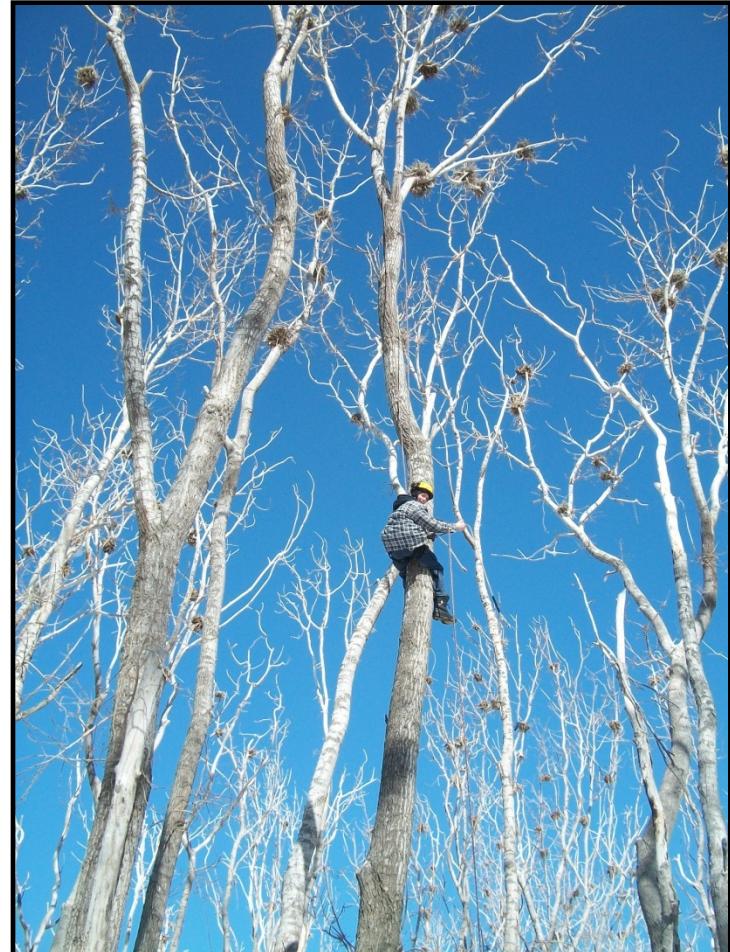




## INACTIVE NEST REMOVAL

- 2012 nest removal was done with forestry poles
- Nests were relocated to the Peninsula B Ground Nest colony to bridge the two areas

Year	Nests Removed
2001	31
2002	281
2003	647
2004	~400
2010	32
2011	236
2012	183





## PRE-NESTING DETERRENTS

- Pre-nesting deterrents were largely scaled back
- Active nest removal took place in strategic locations on Peninsulas B and C
  - To prevent DCCO expansion into new trees
  - May 7 to June 8
  - 145 nests removed
    - 99 nests on Peninsula C
    - 46 nests on Peninsula B
  - Prior to removal, nests were closely monitored ensure eggs were no greater than 10 days old



# MANAGEMENT SUMMARY

## Peninsula A

- Enhanced ground nests – 36 nests with 18 decoys arranged around the base of the last nesting tree

## Peninsula B

- Enhanced ground nests - woody debris and nests collected during inactive nest removal placed between 2 ground nest colonies to merge
- Active nest removals in strategic locations
- Tree nesting decreased by 22% (280 nests)
- Ground nesting increased by 27% (1265 nests)

## Peninsula C

- Active nest removals in strategic locations
- Tree nesting decreased by 11% (612 nests)



## 2012 SEASON SUMMARY

- Prevented expansion onto Peninsula D
- Ground nests increased 476% from 2008 (from 15% of the total colony in 2008 to 50% in 2012)
- Tree nests decreased on both Peninsulas B and C
- Overall population increase of only 3%, supported by the expansion in the ground nest colony
- Webcam on Peninsula B
- Viewing blind on Peninsula C with views of DCCO, BCNH and GREG
- BCNH population holding steady
- GREG population holding steady



# UPDATE ON YORK U RESEARCH



# 2013 PROPOSED STRATEGIC APPROACH

	Peninsula A	Peninsula B	Peninsula C	Peninsula D
<b>Inactive Nest Removal (prior to 2013 breeding season)</b>		*	*	
<b>Enhanced Ground Nesting</b>	*	*		
<b>Pre-Nesting Deterrents</b>		*	*	*
<b>Post-Breeding Deterrents</b>			*	*



# DCCO CONSERVATION ZONES





## DCCO DETERRENT AREAS





## TO CONSIDER FOR 2013

- Should we take a year off from putting decoys on Peninsula A?





# AUTHORITY BOARD

January 25, 2012  
Black Creek Pioneer Village  
1000 Murray Ross Pkwy, Downsview





## SPRING BIRD FESTIVAL

**Saturday May 11, 2013  
8 a.m. to 4 p.m.**

- Early bird hikes
- Family walks, guided bird hikes
- **Colonial waterbird hikes**
- Baillie Bird-a-thon
- Bird banding demonstrations
- Children's activities
- Educational displays
- Grand opening of TTP infrastructure

