

## REPORT ON THE GREATER METROPOLITAN TORONTO RAPTOR WATCH



FALL 1994 JOHN J. BARKER

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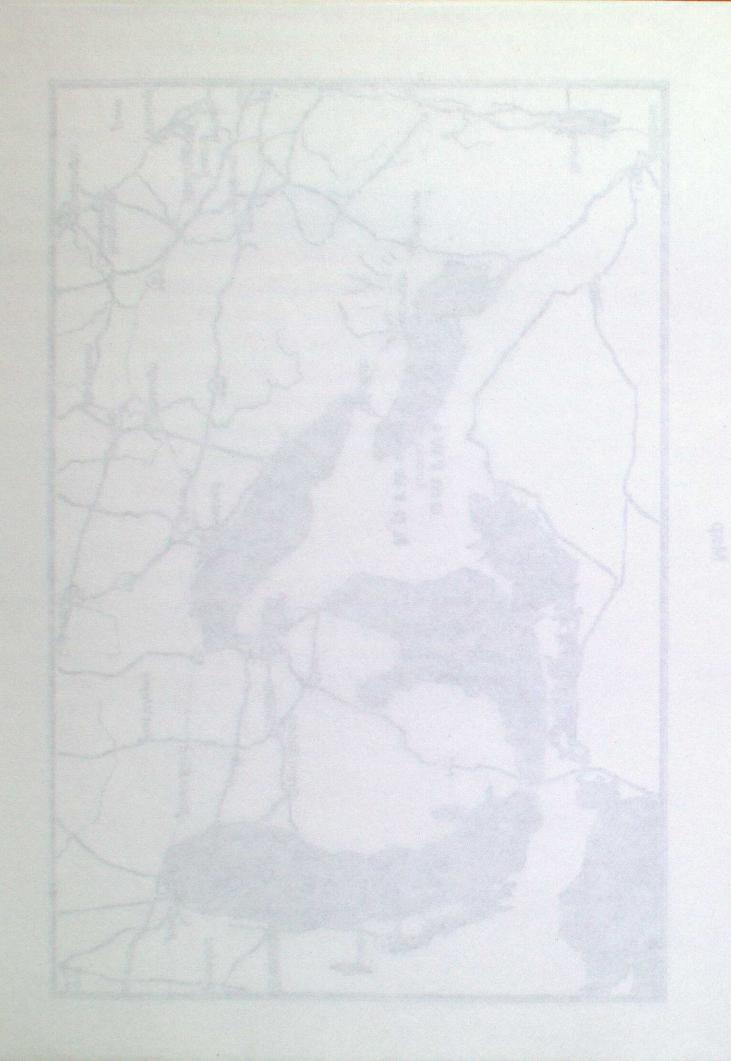
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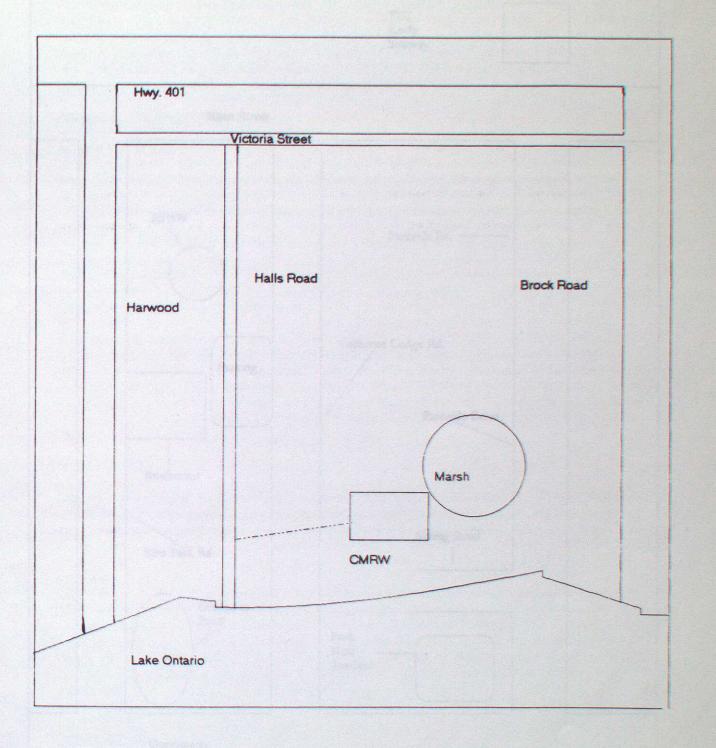
JOHN J. BARKER



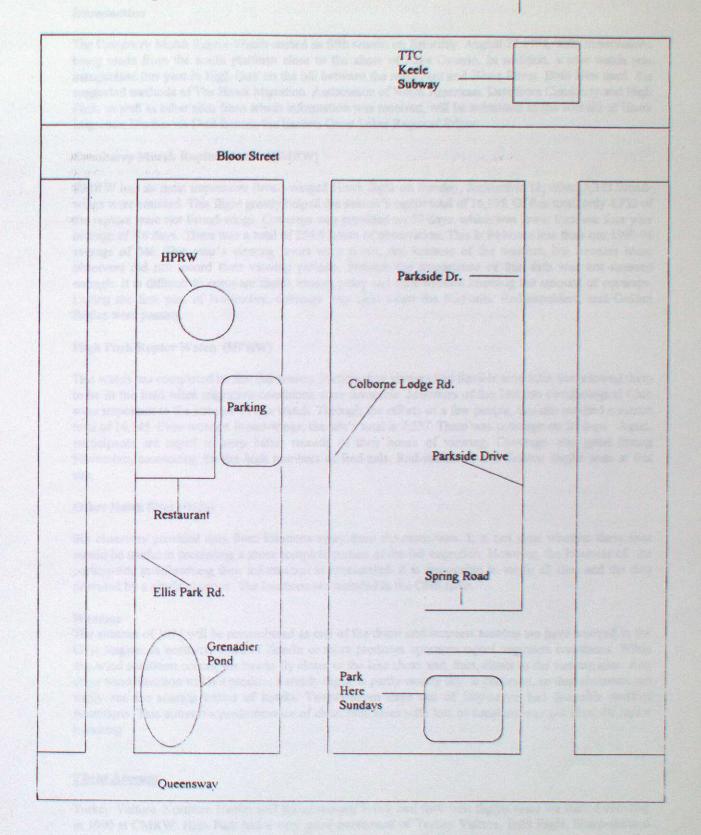


## Directions to Cranberry Marsh





## Directions to High Park



#### Introduction

The Cranberry Marsh Raptor Watch started its fifth season on Saturday August 27 1994, with observations being made from the south platform close to the shore of Lake Ontario. In addition, a new watch was inaugurated this year in High Park on the hill between the restaurant and Bloor Street. Both sites used the suggested methods of The Hawk Migration Association of North American. Data from Cranberry and High Park, as well as other sites from which information was received, will be submitted to the Journal of Hawk Migration Studies via Dick Benoit, the Eastern Great Lakes Regional Editor.

### Cranberry Marsh Raptor Watch (CMRW)

CMRW had its most impressive Broad-winged Hawk flight on Sunday, September 18, when 5,343 Broadwings were counted. This flight greatly helped the season's raptor total of 16,135. Of this total, only 4,832 of the raptors were not Broad-wings. Coverage was provided on 57 days, which was lower than our four year average of 74 days. There was a total of 255.5 hours of observation. This is 94 hours less than our 1990-94 average of 346. This year's viewing hours were down, not because of the weather, but because some observers did not record their viewing periods. Perhaps the importance of this data was not stressed enough. It is difficult to compare flights among years and sites without knowing the amount of coverage. During the first part of November, coverage was light when the Red-tails, Red-shoulders, and Golden Eagles were passing.

### High Park Raptor Watch (HPRW)

This watch has completed its first full season. Participating viewers had flexible schedules that allowed them to be in the field when migration conditions were favorable. Members of the Toronto Ornithological Club were important to the success of this watch. Through the efforts of a few people, this site reached a season total of 16,745. Even without Broad-wings, the site's total is 7,337. There was coverage on 36 days. Again, participants are urged to keep better records of their hours of viewing. Coverage was good during November, accounting for the high numbers of Red-tails, Red-shoulders and Golden Eagles seen at this

#### Other Hawk Sites (OHS)

Six observers provided data from locations away from the main sites. It is not clear whether these sites would be useful in presenting a more complete picture of the fall migration. However, the kindness of the participants in submitting their information is appreciated. It is impossible to verify all sites and the data provided by a single observer. The locations are included in the OHS table.

The autumn of 1994 will be remembered as one of the driest and sunniest seasons we have enjoyed in the GTA Region. A northerly wind of 7km/hr or more produces optimum raptor migration conditions. When this wind condition occurs, the hawks fly closer to the lake shore and, thus, closer to the viewing sites. Any other wind direction will not produce a steady flight. A partly cloudy sky is preferred, so that observers can easily see the soaring kettles of hawks. Twenty-seven days out of fifty-seven had favorable weather conditions. This autumn's predominance of clear, blue skies with lots of sunshine was not ideal for raptor watching.

#### Flight Account

Turkey Vulture, Northern Harrier and Broad-winged Hawk had their best flights since we started counting in 1990 at CMRW. High Park had a very good movement of Turkey Vulture, Bald Eagle, Sharp-shinned Hawk, Cooper's Hawk, Red-shouldered, Red-tailed Hawk and Golden Eagle. Cranberry Marsh had a fair showing of Osprey, Sharp-shinned Hawk, Rough-legged Hawk, American Kestrel, Merlin and Peregrine Falcon. At CMRW we had **Poor** coverage during the week. We missed seven species at their peak movements, while HPRW had better fortune in observing these species. Their better coverage accounts for the differences in the total counts.

#### Viewing Periods for Hawk species

One may say with confidence that hawks are fairly consistent in migration dates from year to year. Comparing 1994 with previous years, the following "viewing windows" are crucial to a good count. Failure to ensure adequate coverage means that many hawks pass through our area unobserved; hence, the count is low. TV: October 1--10, OS: Sept. 5--11, BE: Sept.16--29, NH: Sept.9--23, SS: Sept.11--Oct.10, CH: Sept.16--Oct.10, NG: Oct.16--Nov.10, RS: Oct.13--Nov.10, BW: Sept.11--20, RT:Oct.26-- Nov.11, RL: Oct.19--Nov.11, GE: Oct.26--Nov.10, AK: Sept.11 -- 29, ML: Sept.11 -- Oct.20, PG: Aug.31 -- Sept.30.

#### **Species Accounts**

#### Turkey Vulture

<u>CMRW</u> - A season total of 1,869 was recorded eclipsing the old record of 1,721 from 1991. This total represents 12% of the total raptors counted during the season. The best day for Turkey Vulture was October 2 when 717 were counted in nine and a half hour. The average annual total is 1,482. Birds per hour increased to 7/hr, up from 3.7/hr in 1993. The first sighting was September 5; the last November 7.

<u>HPRW</u> - This site recorded 1,711 for the season, representing 10% of the total raptor count. The peak day was October 3 with 558. The first sighting was September 10; the last November 11.

OHS - R. Shillabeer counted 53 individuals at Kennedy / Danforth in Scarborough, September 29.

#### Osprey

<u>CMRW</u> - The season total of 52 ranks fourth since 1990. Clearly Osprey numbers were down. Their numbers represent only .003% of the total tally. The peak day was September 3 when 10 birds were counted. In past years the peak day fell between September 9 - September 29. The total is substantially below the annual average of 79. In past years, Ospreys traditionally used Cranberry Marsh as a feeding station en route south, but this behavior did not seem to occur this year. The earliest bird was seen August 28; the latest October 23.

HPRW - The season count was 39 for .002% of the total migration. The first bird was August 28 and the last October 10.

#### Bald Eagle

CMRW - A season total of 11 was recorded. No doubt this is due to the inadequate coverage at Cranberry Marsh during September when only 8 Bald Eagles were counted. High Park tallied 17 by comparison. In addition to the lack of observers at Cranberry Marsh, wind direction also accounts for part of the difference in totals between the two sites. Lake Ontario has wind conditions which are often quite different from those found inland. Cranberry Marsh is directly beside the lake, while High Park is a few kilometers north at a higher elevation.

The age breakdown from Cranberry Marsh is as follows: first year - 4, second year - 1, third year - 2, adult - 1, unknown - 3. The total Bald Eagle migration constitutes .001% of the total fall raptor count.

<u>HPRW</u> - The season total was 19, with 5 birds recorded September 19. The age breakdown at High Park is as follows: First year - 6, Second year - 3, Third Year - 1, Adult - 4, Unknown - 5. The percentage of the total migration is .001%.

OHS - Bob Yukich observed one Eagle that was either a First or Second year. The Eagle was seen flying over Lincoln Ave in the Town of York. Norm Murr spotted another Bald Eagle October 8 at the Leslie Street Spit.

#### Northern Harrier

<u>CMRW</u> - This species had a very successful breeding season resulting in great numbers of migrants at locations and at other hawk watches. When have you seen Harriers fly in groups of ten or more? That is exactly what happened at Cranberry Marsh September 18 when the daily total was 68, smashing the previous high total for a single day of 18 recorded September 11,1991. The total count for the season, 322, also sets a new record, breaking our past record of 177 in 1991. I had hoped to see more males in their grey and black plumage, but only one put in an appearance November 24. The females and the first years birds made up the show this year. Northern Harrier represents 2% of the annual total. This year's excellent showing boosts our annual average to 213, up substantially from the previous figure of 132.

<u>HPRW</u> - The total count was 277, with a peak of 87 September 17. This is High Park's first year of full coverage; therefore, no previous comparative numbers are available. September 17 was marked by cloudy skies with WNW winds at speeds between 9 to 30 Km/hr. There was no moisture before and after this date for ten days. No doubt this is at least a partial explanation for the superlative migration in our area.

#### Sharp-shinned Hawk

There has been an abundance of discussion regarding the reasons for the decline of this species in the north-eastern United States. I will not attempt to explain the various theories postulated by the established and respected observatories; these hypotheses have been well -covered in birding journals. I wish to state, however, that the Holiday Beach Migration Observatory, near Windsor, Ontario experienced only 10,375 Sharp-shins compared with their 21 year average of 13,507 during the 1994 fall migration.\*

CMRW - The season's total was 1,296, down from our five year average of 1,845. The peak day occurred September 10 with only 132 birds. This total is the lowest recorded since 1990. On September 11, 1993 304, Sharp-shins were viewed flying west over Cranberry Marsh. Calculating the birds per hour, it remains unchanged from 1990 at 5. This species represents 8% of the seasonal total.

<u>HPRW</u> - This site had better numbers; no doubt their superior coverage being a factor. The total was 1,742, with a high count of 313 September 18. Perhaps we missed this movement at Cranberry Marsh where we concentrated on the dramatic migration of Broad-wings. High Park's count represented 10% of their total.

OHS - Norm Murr reported seeing 76 Sharp-shins at the foot of Leslie Street September 3.

#### Cooper's Hawk

CMRW - Our total this year was only 31; 1993, by comparison recorded 59. Our best peak day was September 23, 1992 which saw 26 Cooper's Hawks pass through. I would like to make a point regarding the identification of this species. The leading edge of the wing is more reliable than the tail shape, Do not ignore the tail just make a note on both. Use this method when Male Cooper's and Female Sharp-shins are flying by you at the same time. The Cooper's Hawk will show the head protruding past the edge of the wing and the overall wing is larger and straighter than the Sharp-shinned Hawk. We were very conservative in our identification practices and this may explain the large difference in the Cranberry and High Park counts.

<u>HPRW</u> - The season's total was 50, with a peak of 11 October 10. It is possible that we are dealing with two different flight paths, or there may be other factors to explain the dramatic difference between Cranberry and High Park. If anyone has thoughts on this matter, I would appreciate their input.

OHS - Don Peuramaki observed 3 individuals at the Bloor Viaduct November 10.

#### Northern Goshawk

<u>CMRW</u> - Unfortunately, it was a dismal year for this most impressive of accipiters. Our total was a mere 9 birds with only singles going through on any given day. Our seasonal average is 31. It is believed that this species experiences a ten-year cyclical fluctuation; the most recent high point being reached in 1991. The first individual was observed August 30; the last was November 25.

<u>HPRW</u> - The total recorded was 11 birds, with two seen on each of three dates between October 27 and November 10. The first migrant was seen August 27 and the last November 15.

OHS - Don Peuramaki recorded one Goshawk at the Bloor Viaduct November 10.

#### Red-shouldered Hawk

<u>CMRW</u> - There is no ready explanation as to why more of this species was not tallied. Our season's total was a disappointing 20, with a peak of 5 on September 19. Our Five-year average is 118 so the decline is precipitous. Bob Beerworth recorded the early arrival, a first-year bird, on August 27.

<u>HPRW</u> - The number of Red-shoulders was substantially higher than Cranberry. The season's total was 161, with a significant movement of 41 observed November 7.

OHS - Don Peuramaki counted 17 at the Bloor Viaduct November 11.

#### Broad -winged Hawk

<u>CMRW</u> - This species represents the success story of the year ! A new record of 11,303 was established. Our annual average for this species is 6,277, so this was truly the year of the Broad-wing.

However, when viewed from a historical perspective, this year's total constitutes an average flight. This topic is covered by Clive Goodwin in The Toronto Omithological Club Newsletter # 51. In relating to our peak of 5,343 on September 18, Goodwin points out that on a TOC field day on September 14, 1975, in a two-hour period, some field observers tallied close to 10,000 birds. On the same day 14,000 Broad-wings were counted in Hamilton. (Thank-you Clive for sharing this information).

Birds per hour increased from 4 in 1993 to 45 in 1994! In 1990 28/hr was the closest ratio to this season's excellent showing.

Lake Erie Metropark in Michigan, Holiday Beach and Hawk Cliff along the north shore of Lake Erie, all reported very high totals, making 1994 a significant year for Broad-winged Hawk.

At Cranberry Marsh, Broad-winged Hawks comprised 70% of the 1994 raptor migration.

I wish to illustrate our method of counting this species. Most frequently, we notice this species kettling from a south-east direction from Thickson's Point, heading in a broad front between Whitby Harbour in the east and Hall's Road in the west. Estimated altitude is 650 metres and up. Cranberry Marsh is 100 metres above Lake Ontario. It is sometimes difficult tracking each flock as it goes by, so it is important to carefully observe where one flock begins and another ends. We are very conservative in our approach to counting

and if there is any question of flocks overlapping we scrupulously avoid the possibility of double - counting. If anything, our numbers may be a little lower than the actual flight, but, I am a firm believer in conservatism in these matters and, in any event, the numbers should present realistic comparisons from year - to - year, since the counting technique does not change.

<u>HPRW</u> - This watch recorded an impressive 9,408 birds, with a peak day of 3,741 September 18. Other high count days were September 10 with 1,394 and September 17 with 3,224. This species accounts for 56% of the season's total migration.

OHS - On September 18 Sherwood Park in north Toronto recorded 1,291 and over at Lincoln Avenue in northwest York, 3,554 were observed.

#### Red-tailed Hawk

<u>CMRW</u> - Observers at Cranberry Marsh did a very poor job of recording the flight of Red-tails; consequently, our count was very low. This is to be greatly regretted, particularly so when one extrapolates from the High Park count that this would almost certainly have been a banner year for this species. In any event, the total for the season was 283 with a peak day of 50 on October 26. On November 24 a Western dark Morph Red-tail was seen.

<u>HPRW</u> - What a difference it makes when a group of observers are conscientiously counting. High Park ended the season with 2,650 Red-tailed Hawks. The peak day was November 10, when 1,139 were tallied. On this date Bob Yukich commented: "Fabulous day! Biggest Red-tail count I've ever noted here." This species represented 16% of High Park's total count. Other days to note were November 7 with 489 and November 11 with 488. Unusual sightings featured a partly albino bird on November 7 and a Western dark Morph specimen on November 11.

OHS - Don Peuramaki recorded 381 individuals November 10 and 328 November 11. Among the birds sighted November 10 was a Western dark Morph.

#### Rough-legged Hawk

CMRW- The unseasonably warm fall weather was a major factor in the low count of Rough-legs, since many birds simply stayed on their breeding territories longer than usual. Only 17 birds were counted at Cranberry Marsh, which compares with an historical average of 94. As a percentage of the total migration, Rough-legs represented .006%. Holiday Beach also experienced a decrease. They recorded only 80, whereas their average per season is 144\*. Many Rough-legs did not appear this far south until after Christmas.

HPRW - The season's count was 10 individuals, with two birds seen on October 17, 26 and November 11.

OHS - Don Peuramaki viewed 3 Rough-legged Hawks November 10 and 1 on November 11 from his vantage point at the Bloor Viaduct.

#### Golden Eagle

CMRW: Our total for the season was 4, with 2 seen on October 2. An immature Golden Eagle was seen at 10:10am flying at about 100 metres in a south-westerly direction. Just in front and to the left of the viewing platform stands a 15 metre tree, above which the Eagle started to hover and circle. As all enraptured counters were watching this performance, it was joined by a another first year Eagle, and the two birds continued their migration together. Our four year average for Golden Eagle is 12. No adult birds were recorded this year.

<u>HPRW</u> - The season's total was 15 with a peak of 4 on October 26. The first sighting was September 17, the last was November 10. On each of the following days 3 Golden Eagles were spotted: November 2, 7, and 10.

OHS - Don Peuramaki reported 3 individuals on November 2 and one on November 11 from the Bloor Viaduct.

#### American Kestrel

<u>CMRW</u> - 1994 provided our third highest count since 1990 with 661 birds tallied. The average is 796. The peak day was September 9 with 258 birds, which constitutes a new site record, eclipsing our previous record of 229 set September 11,1991. Kestrels represented 4% of the Total migration at this site. The ratio of birds per hour was 3. compared with 1.5 in 1993.

HPRW- 409 birds were recorded with a peak of 130 on September 9.

OHS - At Lincoln Avenue in the City of York, 27 were seen September 18.

#### Merlin

<u>CMRW</u> - We finished the season with 31 Merlin's, Having a peak day of 5 on September 9. On September 11 a Black Merlin flew by at eye level; possibly a Western Merlin or a darker - than - normal Eastern specimen. Merlin's tended to stay longer than normal this year, due to the mild weather. No doubt, this factor explains the late bird observed November 22.

<u>HPRW</u> - The total for the watch period was 15. On September 17 and 18 four individuals were counted each day.

OHS - Norm Murr reported single birds on August 27 and September 3 at the foot of the Leslie Street Spit.

#### Peregrine Falcon

<u>CMRW</u> - Our season's total was 19, with 5 being viewed on a very early peak date of August 31. It has been difficult to classify the two main races, anatum and tundrius, because the release program has caused mixing of the recognizable subspecies.

HPRW - Only two individuals were seen at High Park on September 30 and October 10.

OHS - On September 25 at a house on Moray Avenue in Oak Ridges (York Region) a Peregrine Falcon was found dead after flying into a window. This bird had been banded in Washington, DC This event was reported to the Richmond Hill Naturalists Club by the finder. Donna McGann, and the bird was turned over to the appropriate authorities. Norm Murr tallied a single bird on the Leslie Street Spit on October 15.

<u>Unidentified Buteo</u> - On September 10 at Cranberry Marsh, We noticed Two very large Buteos almost the size of eagles. In fact, I called the first bird an eagle sp. but soon changed my opinion. The first bird was seen in the morning; the second in the afternoon. I am firmly of the opinion that what we saw were two immature Ferruginous Hawks (Buteo regalis). Having carefully reviewed numerous references, I have nothing to change this opinion. However, since no one in our area has claimed to have seen this species before, I am leaving this sightings in the UB column.

#### Counters

#### CMRW:

B.Beerworth, R.Pye, R.G. Shillibeer, B.Evans, J. Barker, E.Wellman, D.Lockrey, D, Wiens, T.Hoar, M.Bain, D. Shannon, G.Frechette, J. Fairchild, D.&W.Mohr, D.Calvert, D.Gascoigne, J. Iron, R.Pittaway, G. Furlong, E.Machell

#### HPRW:

L.Schlichter, B.Yukich, N.Murr, H.Currie

#### **Observers**

CMRW: M.Bain, R. Baker, J. Barker, E.Beagan, R.Beerworth, A.Blewett, D.Calvert, E.Coes, G.Doakes, D.Doakes, L.Fazio, J. Fairchild, G. Gallant, D.Gascoigne, B.Henshaw, T.Hoar, P. Holder, J. Iron, H.Kerr, M. King, J.Kuramoto, A.Lisk, D.Lockrey, W.&D. Mohrs, D.O'Brien, D.Peuramaki, R.Pittaway, R.Pye, K. Ridge, G.Sadowski, R.G.Shillabeer, J.Silverberg, J.M.Speirs, T.Talevi, D.Wiens, S. Woods, D. Worthington

<u>HPRW:</u> A.Adamo, J. Barker, J. Guild, H.Currie, M. King, D. Perks, P.S. Scanlon, T.Talevi, D. Beadle, D. Wiens, N. Murr, B. Yukich, L. Schlichter, D. Duckworth, R. Geras, H. Kerr

Tommy Thompson Park (Leslie Street Spit)
N.Murt

Sherwood Park G.&J. Fairchild

Lincoln Ave. B. Yukich, M. King

Oak Ridges

D. McGann

Kennedy Rd. and Danforth Ave. R.G.Shillabeer

Bloor Viaduct D.Peurmaki

#### References:

\*Benoit, Dick. Raptor Totals for 1994 and the 21 year average, "The Northwind", Winter 1994-95, Holiday Beach Migration Observatory.

#### Acknowledgments

I wish to express my apprecation to Dave Gascoigne for his invaluable assistance in putting this report together. I would further like to acknowledge the contributions of the Birds on migration table. Norm Mur. Dave Gascoigne and Bob Yukich in particular and the other sources noted at the end of the Birds on Migration section.

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	WATCHING	SPECIES TOTAL		COUNTERS NAME LEON SCHLICHTER LEON SCHLICHTER LEON SCHLICHTER	# OF OBS S WATCHING	SPECES TOTAL OUT OF 15	COUNTERS NAME NORM MURR	# OF OBES	SPECES TOTAL OUT OF 15
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GREATI	ER TORONTO	WEATHE	R DURING	THE AUTU	JMN HAWK M	GRATIO	N, 1994
Weather	data taken from F	Pearson Air	port				
Source:	*Toronto Daily S	tar Forecas	t" Prepared	by MTI inc.			
DATE	WEATHER	TEMP. C	HUMIDITY	WIND	WIND SPEED	PRECIP.	DAY
mm / dd	8am to 5pm	L/H	am / pm	from	km/h	mm	covered
AUG.27	SUNNY	20 TO 25		NW	00 TO 07	0	Y
Commence of the Commence of th	CLOUDY	22 TO 28	80 - 59 %	SW	28 TO 50	0	Y
AUG.29	Control of the Contro	14 TO 21	73 - 43	W	07 TO 35	0	X
AUG.30		11 TO 23	87 - 44	W	06 TO 19	0	Y
	SHOWERS	15 TO 17	97 - 84	VAR.	04 TO 15	6.2	
Charles and the second second second	P.CLOUDY	13 TO 17	78 - 55	NNW	13 TO 33	0	
SEP.02	P.CLOUDY	08 TO 17	88 - 47	NNW	07 TO 15	0	X
SEP.03	FEW CLOUDS	09 TO 20	89 - 51	N	06 TO 19	0	Y
SEP.04	VAR.	09 TO 19	92 - 51	SE	02 TO 17	0	Y
SEP.05	FEW CLOUDS	08 TO 18	87 - 48	SE	09 TO 19	0	Υ
SEP.06	VAR.	09 TO 15	86 - 85	WSW	04 TO 09	1	X
SEP.07	SUNNY	14 TO 21	87 - 39	NW	19 TO 52	1.2	Y
SEP.08	P.CLOUDY	16 TO 25	81 - 46	W	19 TO 39	0.2	Y
SEP.09	P.CLOUDY	13 TO 22	81 - 53	NW	04 TO 39	4.4	Y
SEP.10	SUNNY	08 TO 18	90 - 44	NNW	09 TO 24	0	Y
SEP.11	SUNNY	08 TO 20	87 - 51	N	09 TO 19	0	Y
SEP.12	P.CLOUDY	10 TO 26	84 - 47	W	13 TO 32	0	X
SEP.13	CLOUDY	18 TO 25	85 - 59	W	07 TO 17	TRACE	X
SEP.14	CLOUDY	19 TO 21	93 - 76	N	09 TO 13	22.2	X
SEP.15	CLOUDY	17 TO 19	88 - 75	E	17 TO 22	TRACE	X
SEP.16	SUNNY	16 TO 29	100 - 49	WSW	22 TO 43	0	) X
SEP.17	CLOUDY	20 TO 23	91 - 75	WNW	09 TO 30	(	Y
SEP.17	CLOUDY	11 TO 21	87 - 44	WNW	06 TO 41	(	Y
		09 TO 22	87 - 41	NW	04 TO 33	(	) Y
	SUNNY	12 TO 26	78 - 39	WSW	09 TO 17	(	) Y
	SUNNY	12 TO 23	94 - 43	SE	09 TO 17	(	) Y
SEP.21	P.CLOUDY	15 TO 22		SE	07 TO 26	(	) X
SEP.22	CLOUDY	10 TO 21	96 - 68	ESE	17 TO 22	(	) Y
SEP.23	CLOUDY	16 TO 18	87 - 78	ESE	07 TO 13	(	) Y
SEP.24	CLOUDY	16 TO 20	90 - 76	E	07 TO 09	(	) Y
SEP.25	CLOUDY	16 TO 20	96 - 71	SE	04 TO 13	13.4	Y
SEP.26	CLOUDY	15 TO 20	98 - 66	WSW	07 TO 22	2.8	3 Y
SEP.27	SHOWERS	12 TO 14		SSW	13 TO 19	5.4	1 X
SEP.28		11 TO 16		WNW	26 TO 53	0.6	3 Y
SEP.29		10 TO 15		WNW	04 TO 19	0.4	4 Y
SEP.30		10 10 10					Y
OCT.01	RAIN	03 TO 14	85 - 36	VAR.	13 TO 28		Y (
OCT.02		01 TO 12		NNW	13 TO 22		Y
OCT.03		04 TO 11		N	11 TO 26	TRACE	<b>X</b>
OCT.04		04 TO 11		WSW	09 TO 11		X
OCT.05		The second secon		w	06 TO 19		Y 0
OCT 06	SUNNY	06 TO 18	02 - 41	SE	15 TO 20		X

OCT 08	SUNNY	44 TO 00	00 04		40 TO 00	0	Y
	CLOUDY	14 TO 22	89 - 64	S	13 TO 26 20 TO 45	0.4	X
	SUNNY	12 TO 14	84 - 47	WSW		TRACE	Ŷ
OCT.11	SUNNY	02 TO 12	94 - 45	WNW	17 TO 26	O	X
OCT.12		M1TO 11	85 - 35	CALM	06 TO 09	April 1997 April 1997 April 1997	x
OCT.13	SUNNY	01 TO 15	87 - 44	SE	07 TO 13	0	X
OCT.14	CLOUDY	02 TO 15	95 - 56	SE	04 TO 07	0	Ŷ
	A CONTRACTOR OF THE PARTY OF TH	06 TO 15	86 - 61	E	11 TO 30	0	Y
OCT.15		01 TO 13	80 - 48	ENE	06 TO 15	0	Y
OCT.16		00 TO 15	81 - 27	VAR.	06 TO 07	0	X
OCT.17	The second secon	01 TO 16	73 - 37	SE	09 TO 15		x
OCT.18		11 TO 16	93 - 67	SE	06 TO 15	1.6	
OCT.19		12 TO 20	99 - 74	VAR.	07 TO 15	1.4	X
OCT.20		12 TO 16	96 - 67	W	07 TO 22	TRACE	Y
OCT.21	CLOUDY	12 TO 15	78 - 66	NW	11 TO 15	0	STATUTE OF THE PARTY OF THE PAR
OCT.22		11 TO 14	90 - 63	SE	07 TO 13	0	Y
OCT.23	VAR.	04 TO 16	100 - 40	VAR.	06 TO 19	1	Y
OCT.24		06 TO 12	83 - 57	SW	09 TO 41	TRACE	Y
OCT.25	CLOUDY	04 TO 08	80 - 56	W	17 TO 37	0.2	Y
OCT.26		01 TO 10	90 - 62	V.N.WINDS	06 TO 13	0	Y
OCT.27	CLOUDY	03 TO 11	95 - 56	VAR.	00 TO 15	0	Y
OCT.28	SUNNY	04 TO 15	84 - 47	SSW	07 TO 37	0	X
OCT.29	CLOUDY	12 TO 17	64 - 52	SW	20 TO 45	0	Y
OCT.30	SUNNY	06 TO 16	98 - 30	W	09 TO 24	0	Y
OCT.31	CLOUDY	08 TO 19	68 - 36	NW	04 TO 09	TRACE	X
NOV.01	RAIN	07 TO 08	97 - 95	V.N. WINDS	22 TO 11	21.4	X
	SUNNY	06 TO 11	72 - 50	WNW	19 TO 41	0	Y
	CLOUDY	03 TO14	91 - 60	VAR.	04 TO 13	0	X
	CLOUDY	14 TO 18	94 - 90	SSW	07 TO 35	8.6	X
	SHOWERS	15 TO 12	96 - 94	N	11 TO 15	8.6	X
	SHOWERS	12 TO 10	99 - 73	VAR.	19 TO 56	8.2	X
NOV.07		01 TO 10	75 - 54	W	09 TO 20	TRACE	Y
	CLOUDY	07 TO 12	78 - 63	WSW	06 TO 19	TRACE	X
	CLOUDY	08 TO 10	88 - 51	N	07 TO 19	4.6	Y
	SUNNY	02 TO 07	83 - 54	+	13 TO 37	TRACE	Y
	SUNNY	M3 TO 07		1	04 TO 07	0	Y
		M3 TO 11			11 TO 28	0	Y
	VAR.		85 - 84	ESE	09 TO 15	0	Y
	CLOUDY	08 TO 10	100 - 85	wsw	19 TO 37	0	X
	CLOUDY	06 TO 16		N	17 TO 30	0	Y
	CLOUDY	07 TO 09	84- 52	VAR.	13 TO 15	0	X
	FEW CLOUDS		95 - 44		04 TO 17	0	X
	SUNNY	M2 TO 09	94 - 55	VAR.	06 TO 37	1.4	X
NOV.18		08 TO 15	87 - 78	SSE	13 TO 33	0	Y
	SUNNY	06 TO 10	67 - 55	W	06 TO 19	0	Y
	P.CLOUDY	M3 TO 06	88 =71	ESE	a company of the second particle and the second sec	19	X
	T.STROM	08 TO 12	85 - 45	VAR.	22 TO 60	0.2	Ŷ
	CLOUDY	03 TO 01	62 - 60	W	30 TO 61		Y
	SUNNY	M1 TO M4	92 - 46	NW	19 TO 41	TRACE	Y
NOV.24	CLOUDY	M4 TO 05	76 - 65	S	15 TO 45	0	Y
NOV 25	SUNNY	01 TO 06	88 - 50	W	11 TO 45	0	Y
	SUNNY	M5 TO M2	83 - 53	NNM	15 TO 07	TRACE	Y
	CLOUDY	M4 TO 01	77 - 63	E	17 TO 67	TRACE	- 1

CRANBERRY MARSH SOUTH PLATFORM, AUTUMN RAPTOR TOTALS           YEAR         TV         OS         BE         NH         SS         CH         NG         RS         BW         RT         RL         GE         AK         ML         PG           1990         886         76         15         129         1037         66         36         81         5631         1269         101         19         410         21         21           1991         772         94         20         177         1846         164         37         186         6357         1858         222         13         1086         74         36           1992         772         61         12         129         2117         132         33         168         1118         1483         30         8         758         40         26           1993         681         33         1084         59         11         16         700         496         5         5         269         17         15           1994         1869         52         11         16         700         496         5         5         269         17
VH         SS         CH         NG           129         1037         66         36           177         1846         164         37           129         2117         132         33           93         1084         59         11           322         1296         31         9           850         7380         452         126

HIGH PARK RAPTOR WATCH - HILL NUMBER NIN	ARK R	LPTOR !	WATCH	Ĭ.	N N	Name of		E	OF TORONTO	FOND	0	TARIO	CANAD	YON		
DATE		2	90	- 1	3	7	2	20	1	Ta	- 8	ă	3	- 5	10	
AUG 27/94	***	0	0	0	0		-	0	0		0		0	0	0	8
AUG 28794		0	- 0	0.0	0 0	0	0 0	00	0	0 0	0 0	4 0	0	000	0 0	6 Commence of the commence of
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SEPUIN	***	0	9	-	0	-	0 0	0	18	3 0		78	0		2	
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SEP 1379	**	0	C	0	0	47	3 0	0	-	0			0	0	0	
SEP IMIN	<b>2</b>	0	0	0		3	0 0	0	0	0			0		0	3
SEP 115/194	*	0	0	0		3	0 0		0	0			0		0	
SEP 1178	<b>*</b>	0	0	0	HE I	23	1 0		10	2	-		-		0	46
SEP 08/9	× ×	0	0	0					0	0			0		0	
SEP (1979)	**	0	-	-					401	9			2		0	787 BE: IST, YEAR
SEP 1009	***	-	-	2	100				1.394	e			-		0	1884 BE: 1ST YR.
SEP 11/9	# P	0	0	-					5	4			0			131 BE: 2ND YR. 12.28PM
WILL GEP	37	q	4	e		1			3 224	15			•			3888 GE 1ST YEAR
CED 10/04	38			0	4.0				3744	4						4467 RF: 1.MM 1. AD 12.18/2.08PM
SCE SOM		-		* *		1		and the	457	, -	-		-			587 BF 3. AD 12 MOVED
26. 130	8	- 16	7	,				-	2	c			- 0			DO DE 17 DE DO
	3.5 1.5	-	~ (	-	1	-			- 00	70			3 -			BUICE 1 AFT
+	3	67	9	-		-			57	0		1			1	254 DE 1- MM.
TOTAL 15		9	7	11		1	8	In the	8367	47	-		2 (		1	
20	3	275	5	9	7	4			67	**			0 (			
001 03084	35	999	0	0	-	1		-	2	4			0	-		612
OC 104/94	<u>8</u>	35	0	0	0	30		100	e	1	_	-	0			82
0CT 05/94	×	2	0	0				-	-	0			0			28
OCT 108	<b>3</b>	285	2	0	9		Marin and	-	2	17			-			515
OCT 14/94	98	-		0	0	4		-	-	3			0			
OCT IN	75 75	0		0		-	0	-	0				0			
OCT 21/84	8	28		0	0	4	0	-	0	7			0			
OCT 23/84	16	0	0	0	0	2	0	-	0	0			0			
OCT 25/84	25	18		0	-	on	0	-	0	2	_		0			
	1000	23		0	171	15	0		0	58			0			148 OE: 12.20 & 12:34PM - 2 APIECE
OCT 276	20	58		+	-	10	0		0	101			0	be.		205 BE: 2ND YR. / GE: 1ST YR. 250PM
TOTAL 12	***	1641	CH	-	20	82	4 8		-	213	-		-			
NOV 0204	20	m		-	2	2	0		0	143			0		38	224 RT, WESTERN DARK MORPH, BE, 1:55 PM, 3RD YR, GE, 1ST YR, 11:15,11.21, 11.28AM
NOV 07/94	20	22		0	2	8	-	-	0	488			0		0	588 NG; 8-49AM & 12.20PM , GE; 12.04PM, 12.08PM, & 2.37PM, RT, PARTLY ALBINO
NOV 09/94	96	0		0	0	0	0	-	0	98	-		0	-	38	<u>8-</u>
NOV 10A	10/94	3	1	0	2	3	0	-	0	1130	-		0		80	1244 FABULOUS DAYII BIGGEST RED TALED HAWK COUNT INE EVER NOTED HERE (BY)
SE VON	25	23		0	0	6	1	-	0	488	_		0		10	544 SHORT-E.OML - 1- 12.01PM
NOV 15	5/84	0	0	0	-	2	0	-	0	33	-		0		0	42 NG 9 28AM
TOTAL		50	0	-	4		2 8	178	0	2388	4	40	0	0 148		
	88				1	+	+	-	-	-	-	Annual Contract of the last	-	Accessed to a name	-	
Contraction participation in a contraction					STATE OF STATE OF											

					-	To the same of the same	1					-	1	1		
AWK SI	HAWK SIGHTINGS IN THE GREATER TORONTO ARE	DARE	NO Y	TARIO	S.	ADA										
DATE	LOCATION	2	1V 08	HE N	88	₹	NG RS	S BW	E	麗	Se ≱	*	0	5	TOTAL	BUNGON
AUG 27/94	LESUE STREET PIT	888	0					0				0	0	0	16	of statements of the statement of the st
SEP 03/94	LESUE STREET PIT		0	0	0 76	-	0	0	0 0	0	0	0	0	0	78	
SEP 18/94	SHERWOOD PARK, NICITY OF TORONTO		0					-						-	1335	
SEP 18/94	LINCOLN AVE., NV. TOWN OF YORK		0					3						7	3625	
SEP 25/9/1	61 MORAY AVE . JAK RIDGES, YORK RM		0				200				wat			0	-	PG, HT WINDOW DEAD. BANDED IN WASHINGTON D.C.
SEP 29/9-1	KENNEDY RD & DANFORTH AVE SCARB	2	3											0	8	
OCT 08/94	LESUE STREET PIT	***	0 (											0	-	
OCT 15/91	LESUE STREET FIT	88	0											0		
NOV 02/94	BLOOR VIADUCT	88	0 (											0	71	GE 10.45AM . 2 . 11 AM . 1 . 1ST YR.
NOV 10094	BLOOR WADUCT		0 (			3						0 0		0	406	GE. 1ST YR / RT. 1. WESTERN MELANISTIC
NOV 11794	BLOOR WADUCT	8	0 (								0		0	0	346	

## Cranberry Marsh and High Park

Species Percentages from season total

Sites	Cranberry Marsh	High Park
Season Total	16,135	16,745
Species		
Turkey Vulture	12%	10%
Osprey	.003%	.002%
Bald Eagle	.001%	.001%
Northern Harrier	2%	.02%
Sharp-shinned Hawk	8%	10%
Cooper's Hawk	.002%	.003%
Northern Goshawk	.001%	.001%
Red-shouldered Hawk	.001%	.01%
Broard-winged Hawk	70%	56%
Red-tailed Hawk	2%	16%
Rough-legged Hawk	.006%	.001%
Golden Eagle	0%	.001%
American Kestrel	4%	.02%
Merlin	.002%	.001%
Peregrine Falcon	.001%	0%

BALD EAGLE YEAR	1ST YR.	2ND YR.	3RD. YR.	ADULT	ADULT UNKNOWN	TOTAL	
1001	6	0	0		20	20	
1997	4	2	9	2		14	
1993	n	4	•	(,)			
1994	10	4	9	4)	8		
GRAND TOTAL	17	0,	7	2			
GOLDEN EAGLE			1				
YEAR	1ST YR	ADULT	UNKNOWN	TOTAL			
1991	4	-	00		3		
1992	ري دست	3	2	10		and the same of th	
1993	4	5	0		0	The state of the s	
1994	-01	0	0	19	6		
SPAND TOTAL	32	σ	10	2			

1ST YR. 2ND YR. 3RD YR. ADULT UNK. DATE 1ST YR. 2ND YR. 3RD YR.  2 2 2 2 4 4 4 4 2 4 7 1 1 1 2 SEP.11/92 1 1 1 1 SEP.23/92 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AGLE								1991 TO 1894		5
ATE 1ST YR, 2ND YR, 3RD YR, ADULT UNK, DATE 1ST YR, 2ND YR, 3RD YR, 1891  191  191  191  191  191  191  191			1.1								
E 1STYR 2ND YR, 3RD YR, ADULT UNK, DATE 1STYR, 2ND YR, 3RD YR, 1						HPRW					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-		UNK	DATE	1ST YR.	2ND YR.	3RD YR.	ADULT	SK
AL 0 0 0 0 20 1 2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	SEP.1/91				•						
AL 0 0 0 20 1 2 SEP.11/92	SEP 29/91				4		The state of the s				
AL 0 0 0 0 20 1 2 2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	OCT.6/91				-						
AL 0 0 0 20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OCT.12/91				2						
AIL 0 0 0 0 20 1 2 2 2 2 2 2 2 2 2 2 2 2 2	OCT.13/91				-						
AL 0 0 0 20 1 20 2 SEP.11/92 2 SEP.23/92 2 3 SEP.23/92 2 3 SEP.23/92 2 3 SEP.23/92 3 SEP.2	OCT.18/91				-						
AL 0 0 0 0 20 1 2 SEP.11/92 2 3/92 2 1 1 1 1 2 SEP.23/92 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OCT.22/91				-						
AL 0 0 0 0 20 1 2 2 2 2 2 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4	OCT.27/91				4						
AL 0 0 0 20 1 2 SEP.11/92 2 3/	OCT.28/91				2						
1 0 0 0 20 20 22 2 2 2 2 2 2 2 2 2 2 2 2	OCT.29/91				-						
2 2 20 20 20 20 20 20 20 20 20 20 20 20	NOV.8/91				-						
2 1 SEP.11/92 2 2 SEP.11/92 2 1 1 1 2 SEP.23/92 2 1 1 1 1 2 SEP.23/92	NOV.16/91				-						
2 2 SEP.11/92 2 1 1 1 2 SEP.23/92 2 1 1 1 1 2 SEP.23/92	پ		0	0	20			The state of the s			
2 SEP.11/92 2 1 1 1 2 SEP.23/92 2 1 1 1 1 2 SEP.23/92	AUG.29/92			=							
2 2 SEP.23/92 2 1 1 1 2 SEP.23/92	SEP.11/92	-				SEP.11/92					
2 1 1 1 1 SEP.23/92	SEP.12/92				7						
2	SEP.23/92	<b>.</b>	-	-		SEP 23/92	-				
2	SEP.24/92				-						
	OCT.5/92	-	-								
	NOV.16/92		-								
2 2 3 TOTAL	TOTAL	2 2	8	2	6	TOTAL	2				
			The second					Annual Conference of the Confe			

SEP 1683   SEP 1684	CMRW	1				-	The second second						
AL 3 4 1 3 5 SEP 1/94 1  SEP 9/94 1  SEP 9/94 1  SEP 1/94 2  SEP 1/94 1  SEP 1	DATE	1ST YR. 2N	ID YR.		ADULT				1ST YR.	2ND YR.	3RD YR.		CNK
AL 3 4 1 3 5 SEP-1/04 1  SEP-1/04 1 SEP-1/04 1  SEP-1/094 2 1  SEP-1/094 1 1 3  SEP-1/094 1 1 3  SEP-1/094 1 1 3  MM 99 Z 6 31 59 SUM 89	SEP.4/93				-								
AL 3 4 1 3 5 SEP.1/84 1 SEP.9/84 1 SEP.9/84 1 1 1 SEP.9/84 1 1 1 1 SEP.9/84 1 1 1 1 SEP.9/84 1 1 1 1 1 SEP.9/84 1 1 1 1 SEP.9/84 1 1 1 1 SEP.9/84 1 1 SEP.9/84 1 1 SEP.9/84 1 1 1 SEP.9/84 1 1 SEP.9/84 1 1 1 SEP.9/84 1 1 1 SEP.9/84 1 SEP.9/84 1 1 SEP.9/84 1 1 SEP.9/84 1 1 SEP.9/84 1 1 SEP	SEP.11/93					-							
AL 3 4 1 3 5 SEP-1/94 1 SEP-1/94 1 SEP-1/94 1 SEP-1/94 1 1 SEP-1/94 1 1 SEP-1/94 1 1 3 SEP-1/94 1 1 1 3 TOTAL 6 3 1 4 5 SEP-1/94 1 1 1 4 5 SEP-1/94 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SEP.16/93	•											
AL 3 4 1 3 5 SEP 1/84 1 SEP 9/94 1 SEP 9/94 1 SEP 1/84 2 1 SEP 1/84 1 1 3 SEP 1/84 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SEP.19/93		-	-	2					and the same			
3 5 SEP 1/94 1	OCT.5/93		-									The second secon	
AL 4 1 3 5 SEP-1/94 1 SEP-9/94 2 SEP-10/94 2 SEP-10/94 2 SEP-10/94 2 SEP-10/94 1 SEP-10/94 1 SEP-19/94 1 SEP-19/94 1 SEP-19/94 1 SEP-29/94	OCT.6/93	•	-										
AL 3 4 1 3 5 SEP 1/84 1 SEP 9/84 1 SEP 9/84 1 SEP 10/84 2 SEP 11/84 2 SEP 11/84 1 1 3 SEP 28/84 1 1 3 MOV.284 1 1 4 5 MM 99 7 6 6 9 31 59 SUM 8 8	OCT.14/93					-							
AL 4 1 2 1 3 5 SEP.1/94 1  SEP.9/94 1  SEP.9/94 1  SEP.1/94 1  SEP	OCT.27/93					-							
AL 4 1 2 1 3 5 SEP 1/94 1  SEP 9/94 1  SEP 9/94 1  SEP 1/94 1  SEP 1/994 1  AL 4 1 2 1 3 TOTAL 6 3 1 4 6 5	OCT.31/93		-										
AL 3 4 1 3 5 SEP 1/94 1  SEP 9/94 1  SEP 1/94 2  SEP 1/94 1 3  SEP 29/94 1 3  SEP 29/94 1 1 3  NOV. 2/94 1 1 4 5  MAL 4 1 2 1 3 TOTAL 6 3 1 4 5	NOV. 1/93	•											
4	TOTAL	60	4	-	3	2							
4 1 2 1 3 SEP 9094 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							SE	EP.1/94	-				
2 SEP.1094 2 SEP.1094 2 SEP.1094 2 SEP.1094 2 SEP.1094 2 SEP.1094 2 SEP.1164 1 1 3 SEP.1994 1 1 3 SEP.29994 1 1 3 SEP.30994 1 1 3 SEP.30994 1 1 1 2 1 3 SEP.30994 1 1 1 4 5 SEP.30994 1 1 1 2 1 3 SEP.30994 1 1 1 4 5 SEP.30994 1 1 1 2 1 3 SEP.30994 1 1 1 4 5 SEP.30994 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SEP. 4/94				•								
1   2   1   3   59   50   1   4   5   1   4   5   1   4   5   1   4   5   1   4   5   1   4   5   1   4   5   1   5   5   5   1   5   5   5   5							SE	EP.9/94	-				
SEP.11/94 1 1							SE	EP.10/94	2				
1   SEP.1794   1   1   1   1   1   1   1   1   3   1   1	SEP 11/94						S	EP.11/94		-			
1   SEP.18/94   1   1   1   1   3   1   4   5   1   5   5   1   5   5   1   5   5							SE	EP.17/94					9
1 SEP.19/94 1 3 TOTAL 6 3 1 4 5	SEP 18/94			2		-	S	EP.18/94	-			•	
M 9 7 6 6 9 31 59 SUM 8 1 4 5	SEP 19/94					-	S	EP.19/94		•		က	
2 7 6 8 31 59 SUM 8	SEP.26/94	•											
1 SEP.30/94 1  1 A 1 2 1 3 TOTAL 6 3 1 4  9 7 6 6 31 59 SUM 8							SE	EP.29/94					•
9 7 6 8 34 58 SUM 8 8	SEP.30/94					•	SE	EP.30/94	•				
1	OCT.2/94		-										
1 1 2 1 3 TOTAL 6 3 1 4 4 9 1 1	OCT.3/94	•		The second secon									
1 1 2 1 3 TOTAL 6 3 1 4 4 9 1 1 2 1 3 TOTAL 6 3 1 4 4 1 2 3 1 59 SUM 8 1 1 4							ŏ	CT.27/94		•			
9 7 6 6 31 59 SUM 8							ž	DV. 2/94			•		
9 7 6 6 31 59 SUM 8	NOV.12/94	-											
MOS 62 1E 6 31 23 50 W	TOTAL	4	-	2	•	6		TOTAL	9	က	-	4	2
	SUM	6	7	9	9	31	59	SUM	8				
		ı	1	1	1	1	1	The second secon					
						500							

CMRW				HPRW			
DATE	1ST YR	ADULT	UNK	DATE	1ST.YR	ADULT	, Z
				SEP.17/94	-		
OCT 2/94	2	Victoria					
OCT 20/94	ř						
				OCT.26/94	4		
				OCT.27/94	•		
				NOV. 2/94	6		
				NOV.7/94	3		
NOV 10/94				NOV.10/94	8		
TOTAL	4			TOTAL	15		
SUM	12	Ŋ	위		1	41	
CMRW TOTAL	30			HPRW	21		

SITE / SPECIES	ES																	
YEAR																		
	SEASON																SEASON	SEASO
CMRW	***************************************	2	SO	BE	Ŧ	SS	CH	S	RS	-	R			AX	¥	8	MEAN	TOTAL
1990		4	0.4	0.1	9.0	2	0	0.2	0.4	28		0.5	0.1	0.1	0.1	0.1	49	9879
1991	426	*	0.2	0.1	0.4	4	0		0.4	15	4	2.5	0	ო	0.2	0.1	38	14380
1992		7	0.2	0.1	0.4	7	0		0.5	ო	7	0.1	0	2	0.1	0.1	23	7242
1993	182	7	0.2	0.1	0.5	9	0	-	0.1	4	ന	0	0	-	0.1	0.1	8	3579
1994	255 5	7	0.2	0	•	2	0	0	0.1	45	-	1	0	m	0.1	0.1	63	16135

SEASON	IAL COUNTS	ITS WITH	WITHOUT BROAD-	BROAD-WINGED HAWK	¥		
SITE	YEAR	WITH	WITHOUT	SITE	YEAR	WITH	WITH
CMRW	1990	9879	4248	HPRW	1993	2338	72077
	1991	14360	8003		1994	16745	7337
	1992	7242	6124				
i	1993	3579	2879				
	1994	16135	4832				

VIEWING PERIOD: AUGUST 21 TO NOV	TO NOVEMBER 20	R 20				
	and the state of t					<b>Grand Total</b>
TOTAL SPECIES	102	88	INDIVIDUALS	19459	12277	31736
SPECIES	CRANBERRY	HIGH PARK	SPECIES	CRANBERRY	HIGH PARK	10000
Com. Loon	•	36	Ruddy Duck	2	•	
Pied-b. Grebe	4	•	Ring-necked Pheasent	-	0	
D.cr.Cormorant	879	49	Yellow Rail		0	
Great Blue Heron	45	16	Am. Coot	28	4	
Green Heron	8	0	Sandhill Crane	0	-	
Black-cr.N.Heron	2	0	Black-b.Plover	4	0	
Tundra Swan	•	0	Am. Golden Plover	9	0	
Mute Swan	8	0	Semipalmated Plover	13	0	
Snow Goose	18	0	Killdeer	25	0	
Brant	7	0	Greater Yellowlegs	<b>∞ 6</b>	0	
Canada Goose	7165	84	Lesser Yellowlegs	88	0	
Wood Duck	7	-	Solitary Sandpiper	2	2	
Green-winged Teal	254	26	Spotted Sandpiper	4 =	2	
Am. Black Duck	24	0	Whimbrel	2	0	
Mallard	3939	53	Sanderling	2	0	
Northern Pintail	80	0	Semipalmated Sandpiper	25	0	
Blue-winged Teal	-		Pectoral Sandpiper	7	0	
Northern Shoveler	20	224	Dunlin	14 🐃	0	
Gadwall	100	0	Stilt Sandpiper	<b>.</b>	0	
Am. Wigeon	4	2	Short-billed Dowitcher	31	0	
Canvasback	2	0	Long-billed Dowitcher	4	0	
Redhead	16	0	Common Snipe		0	
Ring-necked Duck	င	0	Bonaparte's Gull	13	37	
Greater Scaup	595	0	Ring-billed Gull	819	675	
Lesser Scaup	261	0	Herring Gull	0	87	
Common Goldeneye	2	0	Glaucous Gull	-	0	
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Hooded Merganser	m	17	DISCR		•
Common Merganser	9	0	Rock Dove	836	395
SPECIES	CRANBERRY	HIGH PARK	SPECIES	CRANBERRY	HIGH PARK
Mourning Dove	7	83	Swainson's Thrush	0	12
Black-billed Cuckoo		0	Am. Robin	0	1273
Yellow-billed Cuckoo	2	0	Gray Catbird	0	7
Short-eared Owl			Am. Pipit	0	5
Northern Saw-whet Owl	0	•	Cedar Waxwing	20	501
Common Nighthawk		-	Northern Shrike	•	0
Chimney Swift	0	373	European Starling	2	425
Ruby-throated Hummingbird	က	28	Solitary Vireo	3	
Belted Kingfisher	2	0	Philadelphia Vireo		8
Red-headed Woodpecker	-	0	Red-eyed Vireo	0	22
Yellow-bellied Sapsucker	0	က	Orange-crowned Warbler		0
Downy Woodpecker	2	13	Nashville Warbler	0	62
Northern Flicker	0	8	Northern Parula		က
Eastern Wood-Pewee	0	ന	Yellow Warbler	2	0
Yellow-bellied Flycatcher	0	က	Chestnut-sided Warbler	0	89
Least Flycatcher		0	Magnolia Warbler	0	20
Eastern Phoebe	4		Black-throated Blue Warbler	0	80
Great Crested Flycatcher	0	2	Yellow-rumped Warbler	8	319
Eastern Kingbird	0	10	Black-throated Green Warbler	0	28
Tree Swallow	1426	0	Blackburnian Warbler	0	10
Cliff Swallow	0	-	Palm Warbler	2	88
Barn Swallow	102	17	Black-and-White Warbler	0	15
Blue Jay	57.7	1806	Am. Redstart	0	35
Am. Crow	375	457	Northern Waterthrush		2
Common Raven	0	2	Common Yellowthroat	0	9
Black-capped Chickadee	41	75	Wilson's Warbler	0	တ
White-breasted Nuthatch	0	2	Canada Warbler		0
Carolina Wren		0	Northern Cardinal	0	6
Winter Wren		0	Rose-breasted Grosbeak	0	က
Golden-crowned Kinglet	0	18	Rufous-sided Towhee	•	0
Ruby-crowned Kinglet	•	28	Am. Tree Sparrow	ဖ	23
Die grav Chatcher	c	0	Chipping Sparrow	0	19

	0	61	Field Sparrow	60	
Gray-cheeked Thrush	0	2	Fox Sparrow		0
SPECIES	CRANBERRY	HIGH PARK	SPECIES	CRANBERRY	HIGH PARK
Song Sparrow	=	0	Emperior Goose (Escapee)		
Swamp Sparrow	•	0		and the second s	
White-throated Sparrow	6	0	and the second s		
White-crowned Sparrow	10	0			
Dark-eyed Junco	•	10			
Snow Bunting	0	40			
Red-winged Blackbird	1150	2651			
Eastern Meadowlark	0	-			
Rusty Blackbird	4	2			
Common Grackle	0	1267			
Brown-headed Cowbird	100	0			
House Finch	37	166			
Common Redpoll	0	4			
Am. Goldfinch	10	108			
Evening Grosbeak	0	•			
House Sparrow	0	350			
TOTAL	19459	12277			
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Smith, Roy. TOC, Newsletter. Issues, 48,49,50, and 51	ssues; 48,49,50,	and 51		Jim Fairchild	
Cranberry Marsh Raptor Watch				R.Shillabeer	
High Park Raptor Watch				Don Wiens	
Dave Gascoigne				Dave Calvert	
Norm Murr				Doug Lockrey	And the second s
Bob Yukich				Alfred Lisk	
Brian Henshaw				Patrick-Stepien-Scanlon	Scanlon
Ron Pittaway				Fred Carnrite	
Rayfield Pye				Alfred Adamo	
Dave Worthington	Hugh Currie			Harry Kerr	
Lofon M Cmith	Flenor Beagan Jean Iron	Jean Iron		Leon Schlichter	