



## WOCAWSON ENERGY PROJECT ADDENDUM

### PHASE II LAYOUT

Survey results for three additional alternative turbine locations to be considered for the Wocawson Energy Project Phase II Expansion

January 7<sup>th</sup> 2020



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## Introduction

On September 20<sup>th</sup>, 2018, an Environmental Impact Assessment (EIA) for the Wocawson Energy Project (WEP or Project) was registered by the province. The EIA for the Project was submitted by Natural Forces on behalf of the Wocawson Energy Limited Partnership.

In the EIA, the Project was contemplated as two phases: Phase 1 was to be built in 2019, while Phase 2 was planned for a later construction and commissioning date.

On March 22, 2019, the EIA received its certificate of determination which approved the development and construction of the Project. However, condition no. 4 of the approval specified that an approval was given to proceed with the only turbines described as Phase 1. This condition also stated that additional information would be required to request permission to initiate any additional project phases. As such, further discussions with the Department of Environmental and Local Government (DELG) led to additional studies being conducted to seek approval for Phase 2 of the Project.

This addendum is submitted by Natural Forces on behalf of the Wocawson Energy Limited Partnership. It is meant to be read in conjunction with the WEP registered EIA document and previous addendums submitted to DELG prior and post EIA approval.

## Specifications of Phase II

The Phase II for the Project initially proposed 6 turbine locations that would be able to produce a total capacity of 20 MW of wind energy. The layout as proposed through the EIA review and subsequent addendums is illustrated in Figure 1 below.

Since the submission of the original EIA, three alternative turbine locations emerged as being valuable for the success of the Phase II of the Project. This addendum proposes these alternative turbine locations as well as additional collector line routes and roads to access the infrastructure to DELG for approval.

Figure 2 below demonstrates the three alternative locations: T8, T9 and T10. Also demonstrated in Figure 2 are turbines labelled 6a, 6b, and 7 which were previously assessed and reviewed by the Technical Review Committee during its review of the WEP EIA.

It is likely that only 5 of the proposed expansion turbines will be installed for a total capacity of 20 MW. There are two proposed routes for the collection system allowing flexibility depending on which turbines are chosen (6a or 6b) for the final layout as demonstrated in Figure 2.

There is no Power Purchase Agreement (PPA) with New Brunswick Power as of yet. However, we would like to proceed with this review in anticipation of the possible expansion.

GPS Coordinates for the three possible turbine locations are provided in Table 1.

Table 1: Proposed Turbine Location Coordinates Presented in NAD 83 UTM Zone 20T

Turbine	Northing	Easting
T8	5070632	323414
T9	5070101	323476
T10	5069596	323475

Since the new turbine locations were not studied in the original EIA, third-party consultants were engaged to conduct additional wetland, watercourses, vegetation, bird, and bat surveys. As well as an archaeological pedestrian walkover was completed at the three turbine locations and associated collection line and road layouts. Prior to conducting the surveys, the methodologies were discussed with DELG. Surveys and field reports are detailed in Appendix A, B and C and summarized below.

## Summary of Biophysical Survey Results

### Vegetation and habitat types

Similar to Phase I habitat, the area of the new proposed turbines (T8, T9, and T10) has been clear-cut and re-planted with areas of natural regeneration. A total of 190 vegetation species were identified with most species being native to New Brunswick and 23 noted as non-native or exotic species. No species of Conservation Concern (SOCC) or Species at Risk (SAR) were observed onsite. However, Crowded sedge was observed in three places and is considered vulnerable to imperiled in New Brunswick. A full list of vegetation species and a map of the crowded sedge location is provided in Appendix A.

### Wetland and watercourses

There were no mapped or unmapped wetlands observed within the new proposed infrastructure locations. Only one watercourse was observed onsite, Dove Hollow Brook. Each proposed route for the collection system would cross the identified watercourse, as such, two watercourse crossings were assessed and detailed in Appendix A (p.6-7).

### Avian species

Avian species assemblage onsite was similar to Phase I surveys. A total of 2,694 individual birds were observed consisting of 70 different species. Similar avian SOCC were observed as were also observed in Phase I and include Olive-Sided Flycatcher, Pine Siskin, Bald Eagle, Common Nighthawk, Eastern Wood-Pee-wee, Turkey Vulture, Evening Grosbeak and Red Crossbill. Evening Grosbeak and Red Crossbill were new observations to this location. Further detail and a full list of avian species observed is provided in Appendix A.

### Bat species

Two bat detectors were deployed and collected data continuously between June 1<sup>st</sup> and October 15<sup>th</sup>, 2019. Acoustic monitoring occurred successfully over 153 nights throughout the active bat season. Only

95 bat passes were recorded at both monitoring stations over the course of 153 days. Very little activity occurred after mid-August. The data does not support the area being an important bat migration route. Detailed results of bats onsite are provided in Appendix B from Boreal Environmental.

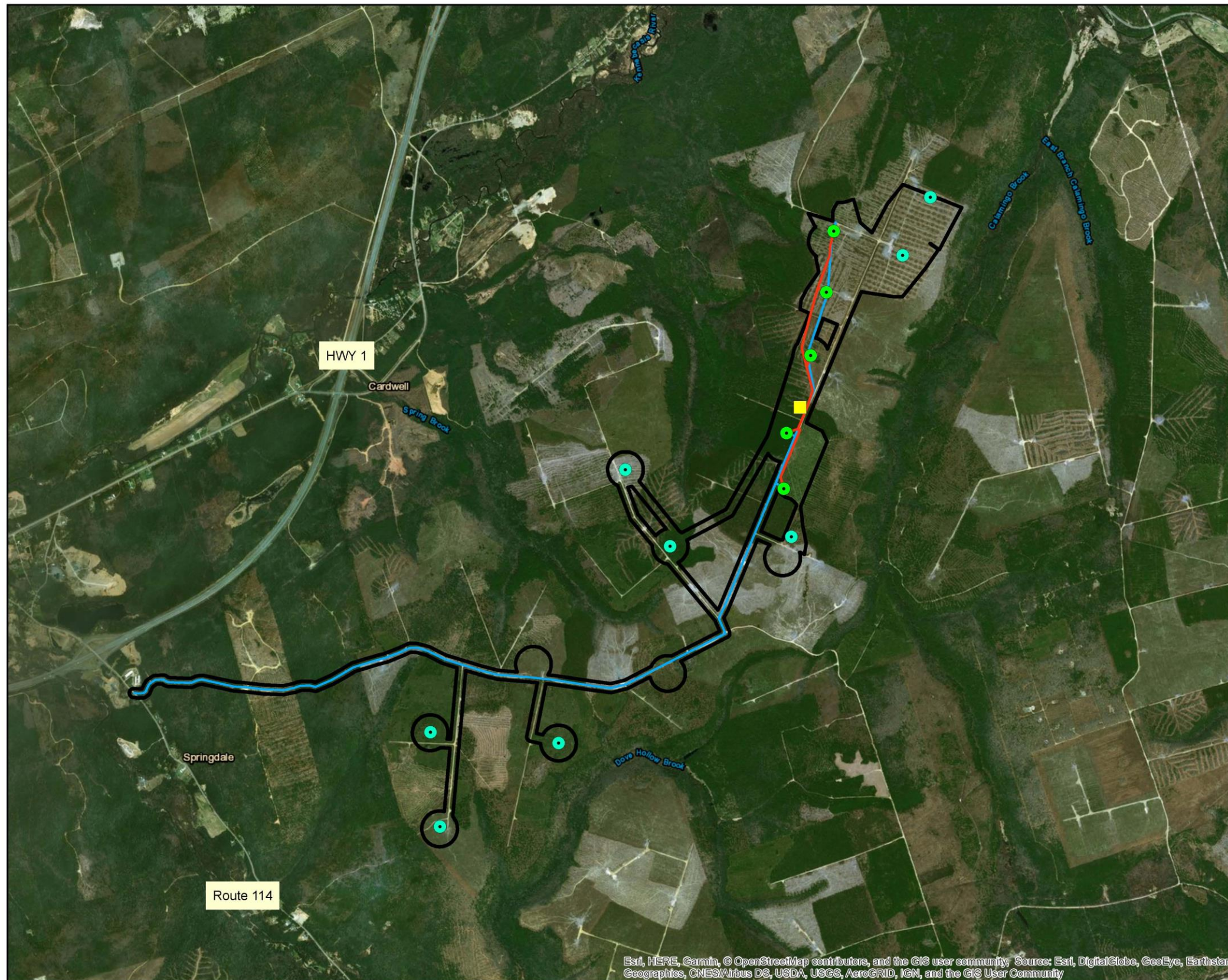
### Archaeology

A pedestrian survey was undertaken on November 20<sup>th</sup> by Archaeological Prospectors to assess new locations for turbines, collection system routes and access roads. No significant cultural material was noticed during this pedestrian survey and the three proposed turbine locations failed to elicit any archaeological potential. However, construction activities for the collection lines in the vicinity of Dove Hollow Brook have the potential to negatively impact any buried cultural remains that might be present. The Archaeologist recommended archaeological testing occur in advance of any ground disturbing activity (removal of tree stumps, grubbing, grading etc.) on the terraces in the Dove Hollow Brook valley and as much as 80 m away from the highest edge. The results from the archaeological surveys are included in Appendix C.

### Conclusion

This addendum is meant to be read in conjunction with the registered WEP EIA and previous addendum documents submitted as part of the EIA. All commitments and mitigation measures stated through the EIA process for the Wocawson Energy Project would be maintained and implemented for the potential construction and operation of the turbines, collector system and access roads proposed as Phase II of the Wocawson Energy Project.





Wocawson Energy Project	
<b>Surveyed Area</b>	
Legend	
<span style="color: green;">●</span>	Proposed Phase 1 Turbines
<span style="color: cyan;">●</span>	Possible Expansion Turbines
<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	Substation
<span style="color: red; font-weight: bold;">—</span>	Collection System
<span style="color: blue; font-weight: bold;">—</span>	Road Layout
<span style="border: 2px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Total Survey Area (Wetland & Veg)



**1:45,000**

0      900      1,800      2,700

Metres

WGS 1984 Web Mercator Auxiliary Sphere

Production Date: Dec 19, 2018



Figure 1: Final Layout provided during the Wocawson Energy Project EIA review process approved on March 20, 2019.



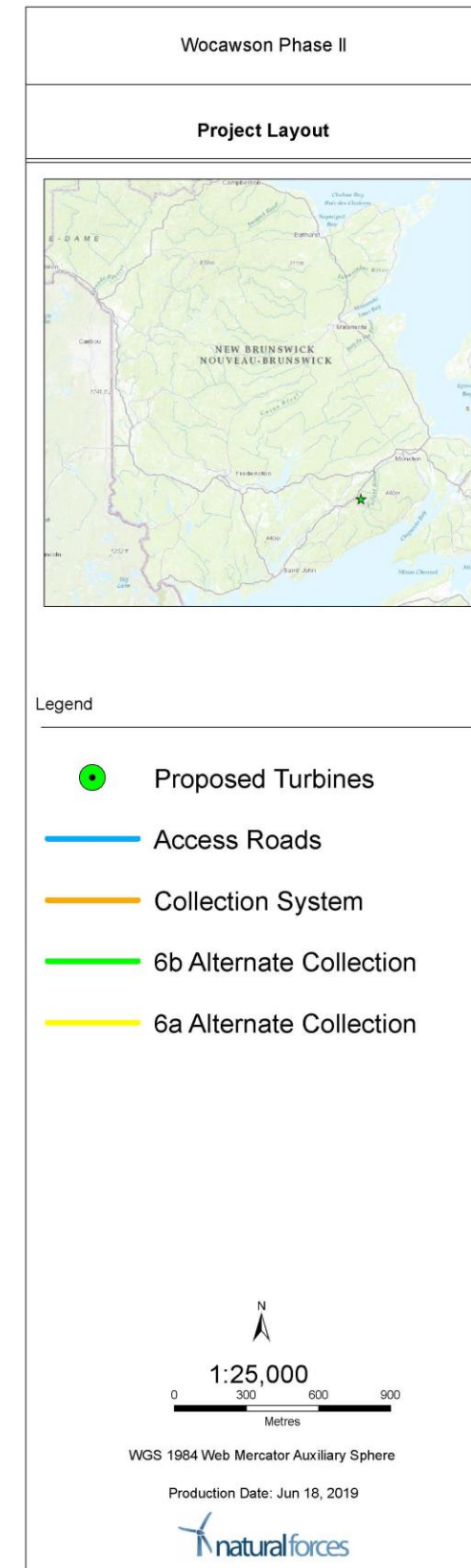
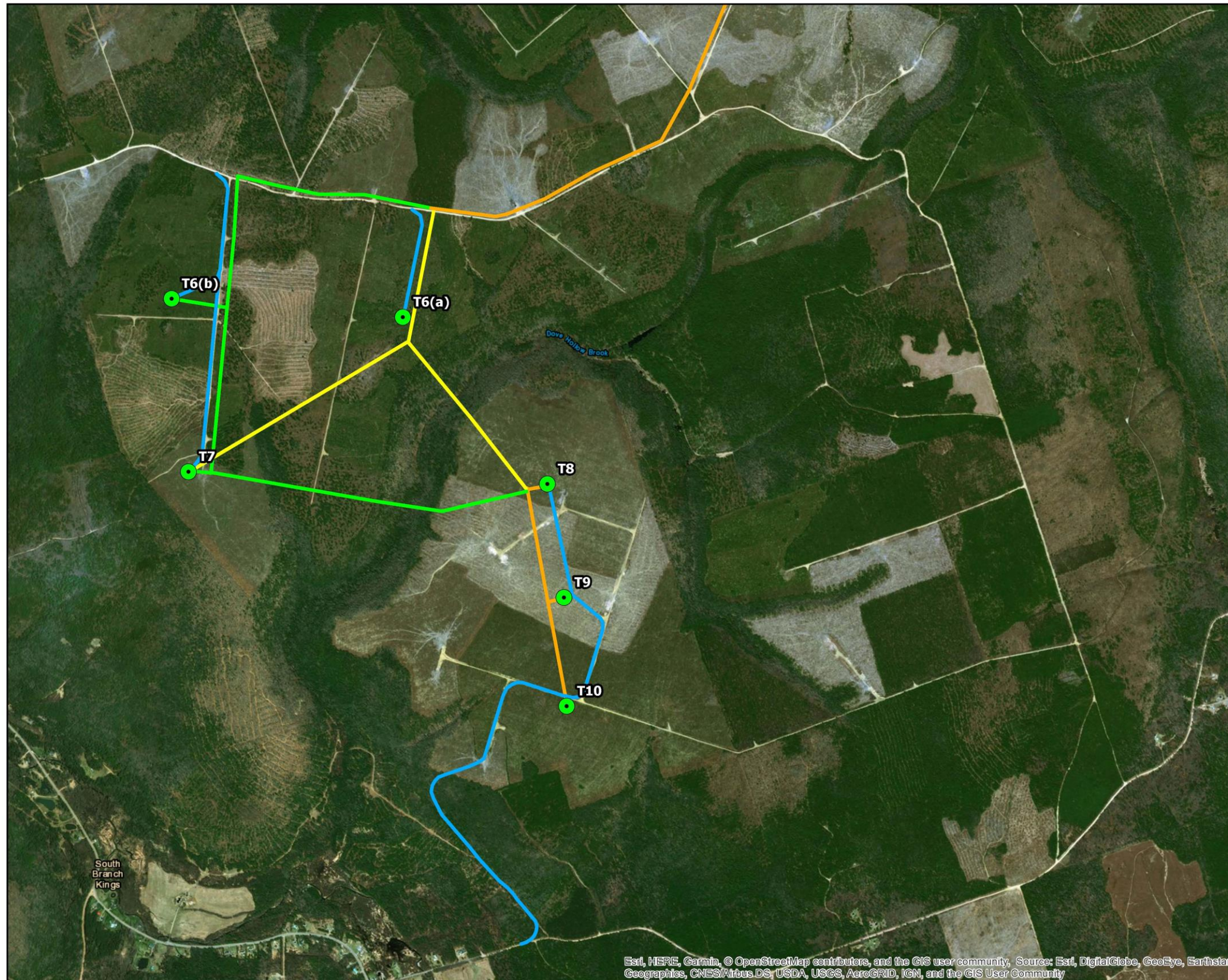


Figure 2: Proposed Wocawson Energy Project alternative proposed locations (T8, T9, and T10) for Phase II expansion.



## **Appendix A**

### **Biophysical Assessment Summary**

Wetland, Watercourse, Vegetation, and Avian Survey Results

November 29, 2019



Wocawson Energy Limited Partnership  
1801 Hollis Street, Suite 1205  
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**Attention:** Ms. Katherine Dorey  
Wocawson Energy Project – Project Manager

***Biophysical Assessment Summary for the Proposed Collector Lines and Associated Access Roads, Wocawson Energy Project – Phase II, Sussex East, New Brunswick***

Dillon Consulting Limited (Dillon) is pleased to present the results of the vegetation and avian surveys and aquatic habitat and wetland assessments conducted throughout the spring, summer, and fall of 2019 within the Project area located east of Sussex, New Brunswick (NB). The following sections describe background information, survey methodology, and results of each survey and assessment conducted by Dillon on behalf of the Wocawson Energy Limited Partnership (WLP).

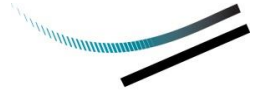
**BACKGROUND**

The 20-40 megawatt (MW) Wocawson Energy Project (the Project) is expected to provide electricity to approximately 3,600 – 7,200 NB homes. The 5 wind turbines being constructed as part of Phase 1 of the project are sited on approximately 1,150 hectares (ha) of Crown land located approximately 20 kilometres (km) east of the Town of Sussex, near Penobsquis, in Kings County, NB (refer to **Figure 1**).

The Environmental Impact Assessment (EIA) registration document for the project (Registration No. 1506) was registered by the NB Department of the Environment and Local Government (NBDELG) on September 20, 2018, and was approved on March 22, 2019. The project is currently in the construction phase.

At the time of the initial EIA preparation, WLP had scoped a 12 turbine project to allow for future expansion of the windfarm, however, refinement of the engineering design resulted in several of the turbines, collector lines, and access roads being relocated. The revised locations are illustrated on **Figure 2**. As a result, additional vegetation and avian surveys and aquatic habitat and wetland assessments were conducted within revised infrastructure footprint and a 50 to 100 metre (m) corridor adjacent to the proposed collector lines and associated access roads (herein referred to as the assessment area).

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The detailed methods used for each survey and assessment are summarized in the following sections.

## VEGETATION SURVEYS

### **Methods**

The field vegetation and rare plant survey was conducted by Dillon's botanist and field technologist on June 10 and 15, 2019. The survey for vegetation and rare plants was conducted in an ecological mapping / meandering survey pattern and limited to the assessment area (refer to **Figure 2**). The assessment buffer width differed for specific areas, as follows:

- Targeted areas of known pristine habitat (e.g., watercourse buffers) or areas that were previously not assessed in support of the EIA: **50 m buffer**; and
- Areas of disturbed habitat (i.e., clear-cut) or previously assessed during other targeted field surveys: **105 m diameter buffer** around the new turbine locations and **50 m** of either side of and in between the sub-study areas (SAs) 4 and 5 (see **Figure 2**).

For ease of data compilation, the assessment area was also divided into 6 SAs associated with an individual collector line or access road. The vegetation survey assessment area and sub-SAs are depicted on **Figure 2**.

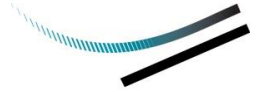
Dillon biologists made detailed records of the vegetation encountered in the assessment area and made records of general habitat types and dominant vegetation species.

### **Results**

The general area, including the assessment area and surrounding land, has historically been clear cut and re-planted or allowed for natural regeneration. The 6 sub-SAs fell within areas of plantations and natural regrowth from 2 to 40 years of age. The understory of the spruce (*Picea spp.*) and pine (*Pinus spp.*) mixed, and spruce dominant plantations (5-15 years of age) had an understory predominantly comprised of grass-leaved goldenrod (*Euthamia graminifolia*),







fireweed (*Chamerion angustifolium*) and bunchberry (*Cornus canadensis*) plants. Areas of natural immature regeneration are predominantly populated with cherry (*Prunus spp.*), maple (*Acer spp.*) and birch (*Betula spp.*) saplings with sarsaparilla (*Aralia spp.*) and fireweed among the dominant herbaceous understory species.



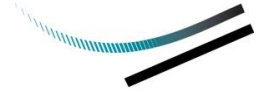
The dominant forest type in areas of mature natural regrowth is a spruce with minor birch and maple stand and the understory is predominantly comprised of honeysuckle (*Lonicera canadensis* and *Diervilla lonicera*) shrubs, upland fern species (*Gymnocarpium dryopteris* and *Pteridium aquilinum*), wild lily-of-the-valley (*Maianthemum canadense*) and bunchberry (*Cornus Canadensis*) plants.



Overall, a total of 190 vegetation species were observed within the assessment area during the field studies and most were identified as native species to NB, with 23 non-native or exotic species identified. **Table 1**, (attached), summarizes the list of plant species observed during the 2019 vegetation surveys within the assessment area.

According to the Sub-national (provincial) ranks (S-ranks) provided by Atlantic Canada Conservation Data Centre (ACCDC), 1 plant species identified in the Assessment Area (SA4 and SA5) during the 2019 survey, crowded sedge (*Carex adusta*), is identified as vulnerable (S3) to imperiled (S2). The species was observed at the following geographic locations: 2595577.1075, 7418968.1179, 2595627.7527, 7418977.3481, and 2595610.5537, 7418867.4854 (refer to **Figure 2**). No species of conservation concern (SOCC) or species at risk (SAR; i.e., legally protected) were observed within the assessment area.



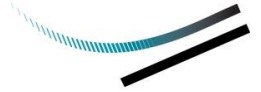


## AQUATIC HABITAT AND WETLAND ASSESSMENT

### **Methods**

The aquatic habitat was conducted by Dillon environmental scientists and technologists on July 11, 2019. The assessment was conducted using the NB Department of Natural Resources and Energy Development (NBDNRED) and Department of Fisheries and Oceans (DFO) standard aquatic assessment forms at 2 crossings of the watercourse within the assessment area (refer to **Figure 3**) identified through desktop review. Fish habitat and aquatic features were assessed within 50 m upstream and 100 m downstream each crossing and an additional 150 m was assessed at the downstream location due to the low water level at the downstream crossing. Assessment criteria included:

- **Description of aquatic habitat type:**  
Habitat types within each watercourse was described as riffle, run, pool, or flat, where possible in the area of the proposed project;
- **Dominant substrate type and embeddedness:**  
Dominant substrate types were described and documented by percent of relative abundance. Substrate type (e.g. gravel or silt) is especially important for fish spawning habitat;
- **Stream channel characteristics:**  
Stream channel characteristics including average wet width, approximate bankfull width, average wetted depth and maximum wetted depth were measured in the field;
- **Instream cover and overhead canopy cover ratings:**  
Instream cover such as submerged woody debris, cobble, boulders, aquatic vegetation was documented, and overhead canopy cover ratings (percent covered by shrubs and trees) were scored;
- **Fish habitat suitability:**  
Habitat suitability for fish is assessed (based on the evaluation of habitat type, substrate type, instream cover, overhead cover, and other ecological observations);
- **Environmental Conditions and Water Level:**  
Environmental conditions (e.g. drier than normal seasonal conditions) were noted during the assessment and water level was rated as “low, moderate, or



high". Hotter and drier environmental conditions resulting in lower water levels will stress salmonid fish populations; and

- **Riparian vegetation community:**

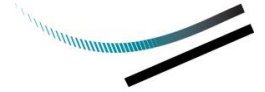
In addition to the vegetation species list provided in the previous section, the riparian vegetation community was described by percent trees, shrubs grasses, and bare ground.

In addition to the aquatic assessment, a field delineation and functional assessment was conducted for wetlands in the assessment area by a Dillon biologist summer 2019. No mapped wetlands were located within the assessment area for the proposed project. The same methods used to during the initial summary report were used to determine, delineate, and functionally assess wetlands in the assessment area which included:



- The presence of hydric soil conditions, hydrophytic vegetation, and wetland biology as outlined in the US Army Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987/2008); and
- Functional assessment based on the Wetland Ecosystem Services Protocol-Atlantic Canada (WESP-AC).

### **Results**

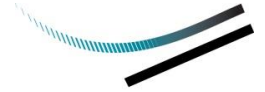
Only the 2 watercourses identified through the desktop review were confirmed in the assessment area, no other watercourses were identified during the field assessments. The following results of the 2 watercourse crossings, shown in **Figure 3**, are summarized below in **Table 2**:



**TABLE 2: AQUATIC HABITAT ASSESSMENT SUMMARY**

Watercourse ID	Representative Photo	Average Widths (m)	Dominant Aquatic Habitat Type and Other Observations
WC – Crossing 1 (upstream)		<p><b>Wet Width:</b> 4.9 m</p> <p><b>Bankfull Width:</b> 8.4 m</p>	<p><b><u>Fish Habitat Suitability:</u></b> Intermittent stream. No fish present and unlikely fish habitat as water level low and little water flow.</p> <p><b><u>Dominant Substrate:</u></b> 5% Boulder, 15% Rock, %50 Rubble, %25 Gravel, %5 Sand</p> <p><b><u>Average Depth(s):</u></b> Water level low, average wetted depth was 0.23 m</p>
WC – Crossing 2 (downstream)		<p><b>Wet Width:</b> 2.3 m</p> <p><b>Bankfull Width:</b> 5.2 m</p>	<p><b><u>Fish Habitat Suitability:</u></b> No fish or fish habitat observed. Dried up, possibly an ephemeral stream.</p> <p><b><u>Dominant Substrate:</u></b> 5% Rock, 10% Rubble, 10% Gravel, %75 Fine</p> <p><b><u>Average Depth(s):</u></b> N/A appeared to be dry for some time.</p>





Additional representative photos collected along the watercourse in the assessment areas at various points during the field assessment as well the field assessment raw data report **Table 3** are both attached.

**Watercourse Crossing 1, Upstream:** Water is present intermittently throughout the watercourse and is present at the crossing, suggesting potential higher water flows only during the spring freshet or extreme high flow events. Watercourse Crossing 1 was characterized during the field assessment as an intermittent stream with a low water level. Mature riparian forest with a majority of tree and shrub cover much of the channel providing moderate canopy cover. Watercourse Crossing 1 is not likely to provide optimal fish habitat due to the lack of sufficient substrate and flow.

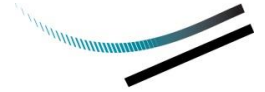
**Watercourse Crossing 2, Downstream:** Characterized during the field assessment as dry. The channel appeared to be dry for some time as moss and grass covered the streambed. Mature riparian forest with tree and shrub cover and moderate canopy cover. Watercourse Crossing 2 is not considered fish habitat due to the lack of water. The lack of water within the channel suggests that the channel remains dry with no water moving throughout much of the year. Pooling water was present and noted approximately 150 m further upstream.

## **AVIAN SURVEYS**

### ***Methods***

The avian surveys were performed by an experienced bird specialist skilled at identifying birds by song, call, and sight. The surveys were scheduled to ensure that observations were made during both the spring and fall migratory periods, as well as the summer breeding season, to determine which species regularly use the area, and during which times of the year. The survey protocols employed were developed based on professional experience, a review of recommended techniques from the Canadian Wildlife Service (CWS) guidance documents (CWS 2007a; CWS 2007b), and were consistent with those employed at the Wocawson Phase 1 site in 2018.

**Breeding bird surveys** were conducted using point count survey methods based on the Standard North American Breeding Bird Survey protocol (ECCC 2018a). A total of 9 point count locations (PC#), illustrated on **Figure 4**, were selected throughout the assessment area and visited regularly throughout the breeding season (see **Table 4**). To allow for 9 PC locations, most travel between PC locations was facilitated by the existing road network within the assessment area and was done by truck. Once the

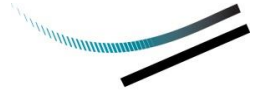


observer was near a target PC location, they would then bush-whack the remaining distance on-foot. Point count locations were spaced at least 250 m apart and were deliberately dispersed throughout the assessment area to capture the variety of habitat types present. Point counts were 10-minutes in length, during which time the total number of individuals detected (i.e., heard or seen) during the survey period were recorded along with the time of day, as well as the survey conditions (temperature, wind speed and direction, cloud cover, and precipitation). The breeding bird survey was designed to determine the number and species of diurnal birds that breed in the assessment area, this survey was supplemented by nocturnal surveys of bird sounds made by species that may breed in the area, but that are typically only detectable at night, or during twilight hours, such as owls and nightjars.

For the nocturnal owl surveys, 3 locations along the existing on-site road network, and approximately 1,200 m apart, were selected. For the nightjar surveys, a fourth 'off-site' location was added in nearby similar habitat. The locations of the nocturnal surveys are illustrated on **Figure 4**. The methods employed for the nocturnal owl surveys were based on the protocol described in the 'NB Nocturnal Owl Survey: A Guide to Volunteers' (Bird Studies Canada 2007) and the 'Guidelines for Nocturnal Owl Monitoring in North America' (Takats et al. 2001). The methods employed for the nightjar survey were based on the protocol described in the 'Canadian Nightjar Survey Protocol' (ECCC 2018b) and took place during a full moon phase on the evening of June 17, 2019.

**Migratory stop-over surveys** were conducted using the same point count survey methods and locations as were used during the breeding bird survey (**refer to Figure 4**). However, instead of assessing the number and species of birds that breed in the assessment area, migratory stop-over surveys are intended to evaluate the number and kinds of birds that land in the assessment area during their period of migration.

**Diurnal watch counts** were also conducted throughout both the spring and fall migratory season, as well as the summer breeding season. This type of survey aims to assess the number, species, altitude and behaviour of birds flying over the assessment area during the daytime. Diurnal watch counts were conducted from 2 distinct locations located off-site. The selection of these observation points was based on the extent to which they provided clear views over the assessment area and its elevation relative the surrounding landscape (**refer to Figure 4**). The diurnal watch counts were conducted from mid-morning to early afternoon, the time when warm air thermals rise from the land. The movements of birds such as raptors (hawks & eagles), corvids



(ravens & crows) and others are often timed so they can ride these thermals. Diurnal watch counts consisted of a number of 30-minute blocks of observation. All birds seen during this time period were recorded according to their species, number of individuals, location and altitude relative to the forest canopy. For each bird observed, a note was made as to which proposed turbine location(s) was nearest its flight path, if any.

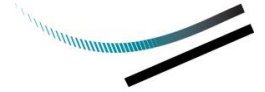
**TABLE 4: AVIAN SURVEY SCHEDULE**

Survey Phase	Key Components	Survey Dates (2019)
<b>Spring Migration and Early Breeding</b>	1. Migratory Stop-over	1. May 10, 16-17, 22-23, 29-30.
	2. Nocturnal Owl survey	2. May 9 and 13.
	3. Diurnal Watch Counts	3. May 16-17, 22-23, 29-30.
<b>Summer Breeding</b>	1. Breeding Bird surveys	1. June 7, 11-12, 27, and July 8.
	2. Nightjar surveys	2. June 22
	3. Diurnal Watch Counts	3. June 7, 11-12, 27, and July 8
<b>Fall Migration</b>	1. Migratory Stop-over	1. August 22, 28; September 4-5, 12-13, 29-30; and, October 1, 10-11.
	2. Diurnal Watch Counts	2. August 22, 28; September 4-5, 12-13, 29-30; and, October 1, 10-11.

**Results**

During the 2019 avian surveys (spring, summer, and fall), a total of 2,694 individual birds of 70 different species were recorded during point count surveys conducted in all seasons within the assessment area.

The total number of species detected by season compares similarly to the 2018 avian survey program conducted in the Phase 1 assessment area. In the Phase 2 assessment area in 2019, 51 species were detected during the spring migratory period, 46 during the summer breeding season, and 52 during the fall migratory period. In the Phase 1 assessment area in 2018 the number of species detected during those same periods



was 76, 50, and 58, respectively. The mild increase in diversity detected in 2018 could be explained by the larger footprint area of Phase 1, and thus a greater diversity in habitats and land area surveyed.

A summary of the effort level, total number of species and individual birds by season during point counts is presented below in **Table 5**. A summary of effort level and hours spent conducting diurnal watch count surveys by season is presented below in **Table 6**.

**TABLE 5: SUMMARY OF LEVEL OF EFFORT, NUMBER OF BIRD SPECIES AND TOTAL NUMBER OF INDIVIDUAL BIRDS OBSERVED DURING POINT COUNT SURVEYS IN 2019**

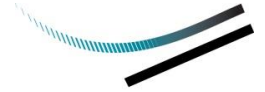
Season	Number of Point Counts conducted (Effort)	Total Number of Species (Diversity)	Total Number of Individuals (Abundance)
Spring Surveys (May)	62	51	957
Summer Surveys (June – mid July)	54	46	712
Fall Surveys (mid Aug – mid Oct)	99	52	1,025

**TABLE 6: SUMMARY OF LEVEL OF EFFORT FOR DIURNAL WATCH COUNT SURVEYS IN 2019**

Season	Number of Days an Observer was present	Total Number of 30-minute 'Observation blocks'	Total Number of Hours dedicated to Diurnal Watch Counts
Spring Surveys (May)	6 days	72	36 hours
Summer Surveys (June – mid July)	5 days	60	30 hours
Fall Surveys (mid Aug – mid Oct)	11 days	123	61.5 hours
<b>TOTAL</b>	<b>22 days</b>	<b>255</b>	<b>127.5 hours</b>

Refer to **Tables 7-15** attached for detailed avian observation data tables for each point count location.





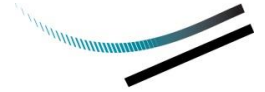
## SPRING SURVEYS

The spring survey program (May) included: point counts along the pre-determined transect, diurnal watch counts and breeding owl surveys.

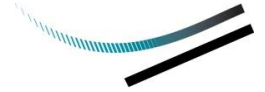
A summary of the species detected during point counts and their relative abundance is provided in **Table 16**.

**TABLE 7: SUMMARY OF THE RELATIVE ABUNDANCE OF SPECIES DETECTED DURING SPRING POINT COUNT SURVEYS IN 2019**

Common Name	Scientific Name	Total Number Detected	ACCDC S-Ranking
White-throated Sparrow	<i>Zonotrichia albicollis</i>	187	S5B,S5M
American Robin	<i>Turdus migratorius</i>	79	S5B,S5M
Hermit Thrush	<i>Catharus guttatus</i>	69	S5B,S5M
Blue Jay	<i>Cyanocitta cristata</i>	55	S5
Dark-eyed Junco	<i>Junco hyemalis</i>	53	S5
Northern Flicker	<i>Colaptes auratus</i>	46	S5B,S5M
Ovenbird	<i>Seiurus aurocapilla</i>	37	S5B,S5M
Common Yellowthroat	<i>Geothlypis trichas</i>	32	S5B,S5M
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	30	S5B,S5M
Black-capped Chickadee	<i>Poecile atricapillus</i>	29	S5
Song Sparrow	<i>Melospiza melodia</i>	29	S5B,S5M
Yellow-rumped Warbler	<i>Setophaga coronata</i>	27	S5B,S5M
American Goldfinch	<i>Spinus tristis</i>	25	S5
Black-throated Green Warbler	<i>Setophaga virens</i>	21	S5B,S5M



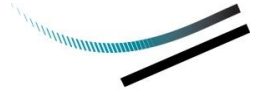
American Crow	<i>Corvus brachyrhynchos</i>	20	S5
Palm Warbler	<i>Setophaga palmarum</i>	20	S5B,S5M
Magnolia Warbler	<i>Setophaga magnolia</i>	16	S5B,S5M
American Redstart	<i>Setophaga ruticilla</i>	13	S5B,S5M
Purple Finch	<i>Haemorhous purpureus</i>	13	S4S5B,SUN,S5M
Red-breasted Nuthatch	<i>Sitta canadensis</i>	12	S5
Ruby-crowned Kinglet	<i>Regulus calendula</i>	12	S4B,S5M
Blue-headed Vireo	<i>Vireo solitarius</i>	10	S5B,S5M
Black-and-White Warbler	<i>Mniotilta varia</i>	10	S5B,S5M
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	10	S5B,S5M
Canada Goose	<i>Branta canadensis</i>	8	SNAB,S5M
Mourning Dove	<i>Zenaida macroura</i>	8	S5B,S5M,S4N
Northern Parula	<i>Setophaga americana</i>	8	S5B,S5M
Pine Siskin	<i>Spinus pinus</i>	8	S3
Ruffed Grouse	<i>Bonasa umbellus</i>	7	S5
Common Raven	<i>Corvus corax</i>	7	S5
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	7	S4B,S5M
Winter Wren	<i>Troglodytes hiemalis</i>	5	S5B,S5M
Least Flycatcher	<i>Empidonax minimus</i>	4	S5B,S5M
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	4	S5B,S5M
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	3	S5B,S5M
American Kestrel	<i>Falco sparverius</i>	3	S4B,S4S5M



Hairy Woodpecker	<i>Dryobates villosus</i>	3	S5
Pileated Woodpecker	<i>Dryocopus pileatus</i>	3	S5
Bay-breasted Warbler	<i>Setophaga castanea</i>	3	S4B,S4S5M
Chipping Sparrow	<i>Spizella passerina</i>	3	S5B,S5M
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	3	S3B,S3S4N,SUM
Common Merganser	<i>Mergus merganser</i>	2	S5B,S4N,S5M
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	2	S5B,S5M
Downy Woodpecker	<i>Dryobates pubescens</i>	2	S5
Swainson's Thrush	<i>Catharus ustulatus</i>	2	S5B,S5M
Golden-crowned Kinglet	<i>Regulus satrapa</i>	2	S5
Boreal Chickadee	<i>Poecile hudsonicus</i>	1	S4
Brown Creeper	<i>Certhia americana</i>	1	S5
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	1	S4B,S4M
Common Grackle	<i>Quiscalus quiscula</i>	1	S5B,S5M
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	1	S5B,S5M

There were 2 species of conservation concern detected during the spring survey point counts. These were the Pine Siskin and Evening Grosbeak, ranked S3 and S3B/S3S4N, respectively. Pine Siskins were also detected in the Phase 1 assessment area during the 2018 avian program, however, Evening Grosbeaks were not.

The 5 most commonly detected species were the White-throated Sparrow, American Robin, Hermit Thrush, Blue Jay, and Dark-eyed Junco, all of which are ranked S5 or S5B by the ACCDC and are considered widespread and abundant in NB. This is very similar to the 5 most commonly detected species detected in the Phase 1 assessment



area during the 2018 spring survey program which were; 1) White-throated Sparrow, 2) American Robin, 3) Black-capped Chickadee, 4) Dark-eyed Junco, and 5) Ovenbird.

During the nocturnal owl surveys 2 species of nocturnal owl were detected, both of which are considered relatively common by the ACCDC. These species were the Great-horned Owl (*Bubo virginianus*) and Northern Saw-whet Owl (*Aegolius acadicus*) ranked S4 and S5B/S5M, respectively. These are similar to the results of the 2018 nocturnal owl surveys conducted in the Phase 1 assessment area, which detected a Saw-whet Owl and a Barred Owl (*Strix varia*). That said, a Great-horned Owl was later detected during the 2018 fall survey program in the Phase 1 assessment area.

During the spring diurnal watch count surveys 1 SAR was detected, Bald Eagle (*Haliaeetus leucocephalus*). Many other non-SAR raptors/corvids and other bird species were also detected regularly, representing a similar species assemblage as was observed during the 2018 avian survey program in the Phase 1 assessment area. Those species include, but are not limited to American Crow, Common Raven, Northern Harrier (*Circus cyaneus*), Red-tailed Hawk (*Buteo jamaicensis*), Broad-winged hawk (*Buteo platypterus*), American Kestrel (*Falco sparverius*), Northern Flicker, Blue Jay and Cedar Waxwing. One notable observation made during the spring surveys was the passing of a group of double-crested Cormorants over the site, estimated at approximately 150 birds observed on May 17, 2019 immediately before the formal watch count began.

Refer to the attached **Tables 17-33** for detailed results of all surveys conducted during the 2019 spring field program.

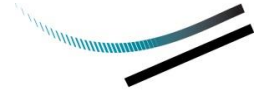
### SUMMER SURVEYS

The summer survey program (early June – mid-July) included: point counts along the pre-determined transect, diurnal watch counts and breeding nightjar surveys.

A summary of the species detected during point counts and their relative abundance is provided in **Table 34**.

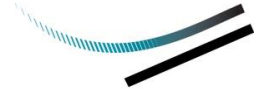
**TABLE 34: SUMMARY OF THE RELATIVE ABUNDANCE OF SPECIES DETECTED DURING SUMMER POINT COUNT SURVEYS IN 2019**

Common Name	Scientific Name	Total Number Detected	ACCDC S-Ranking
White-throated Sparrow	<i>Zonotrichia albicollis</i>	118	S5B,S5M

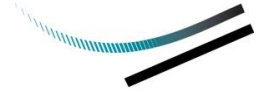


Alder Flycatcher	<i>Empidonax alnorum</i>	56	S5B,S5M
Hermit Thrush	<i>Catharus guttatus</i>	50	S5B,S5M
Common Yellowthroat	<i>Geothlypis trichas</i>	43	S5B,S5M
American Robin	<i>Turdus migratorius</i>	38	S5B,S5M
Ovenbird	<i>Seiurus aurocapilla</i>	36	S5B,S5M
Magnolia Warbler	<i>Setophaga magnolia</i>	31	S5B,S5M
Dark-eyed Junco	<i>Junco hyemalis</i>	29	S5
American Redstart	<i>Setophaga ruticilla</i>	27	S5B,S5M
Northern Flicker	<i>Colaptes auratus</i>	24	S5B,S5M
American Crow	<i>Corvus brachyrhynchos</i>	23	S5
Song Sparrow	<i>Melospiza melodia</i>	22	S5B,S5M
Black-and-White Warbler	<i>Mniotilta varia</i>	17	S5B,S5M
Palm Warbler	<i>Setophaga palmarum</i>	17	S5B,S5M
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	14	S5B,S5M
Cedar Waxwing	<i>Bombycilla cedrorum</i>	14	S5B,S5M
Swainson's Thrush	<i>Catharus ustulatus</i>	13	S5B,S5M
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	12	S5B,S5M
American Goldfinch	<i>Spinus tristis</i>	12	S5
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	12	S5B,S5M
Blue Jay	<i>Cyanocitta cristata</i>	11	S5
Northern Parula	<i>Setophaga americana</i>	11	S5B,S5M





Yellow-rumped Warbler	<i>Setophaga coronata</i>	11	S5B,S5M
Red-eyed Vireo	<i>Vireo olivaceus</i>	10	S5B,S5M
Blue-headed Vireo	<i>Vireo solitarius</i>	6	S5B,S5M
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	5	S5B,S5M
Black-throated Green Warbler	<i>Setophaga virens</i>	5	S5B,S5M
Mourning Dove	<i>Zenaida macroura</i>	4	S5B,S5M,S4N
Downy Woodpecker	<i>Dryobates pubescens</i>	4	S5
White-breasted Nuthatch	<i>Sitta carolinensis</i>	4	S4
Lincoln's Sparrow	<i>Melospiza lincolni</i>	4	S4B,S5M
Purple Finch	<i>Haemorhous purpureus</i>	4	S4S5B,SUN,S5M
Common Merganser	<i>Mergus merganser</i>	3	S5B,S4N,S5M
Black-capped Chickadee	<i>Poecile atricapillus</i>	3	S5
Red-breasted Nuthatch	<i>Sitta canadensis</i>	3	S5
American Woodcock	<i>Scolopax minor</i>	2	S5B,S5M
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	2	S5B,S5M
Winter Wren	<i>Troglodytes hiemalis</i>	2	S5B,S5M
Ruby-crowned Kinglet	<i>Regulus calendula</i>	2	S4B,S5M
White-winged Crossbill	<i>Loxia leucoptera</i>	2	S5
American Kestrel	<i>Falco sparverius</i>	1	S4B,S4S5M
Common Nighthawk	<i>Chordeiles minor</i>	1	S3B,S4M
Hairy Woodpecker	<i>Dryobates villosus</i>	1	S5
Eastern Wood-Pewee	<i>Contopus virens</i>	1	S4B,S4M
Least Flycatcher	<i>Empidonax minimus</i>	1	S5B,S5M
Golden-crowned Kinglet	<i>Regulus satrapa</i>	1	S5



There were 2 species of conservation concern detected during the summer survey point counts; the Common Nighthawk and Eastern Wood-Pewee. Both the Common Nighthawk and Eastern Wood-Pewee were also detected in the Phase 1 assessment area during the 2018 avian program.

The 5 most commonly detected species were the White-throated Sparrow, Alder Flycatcher, Hermit Thrush, Common Yellowthroat, and American Robin, all of which are ranked S5 or S5B by the ACCDC and are considered widespread and abundant in NB. This is similar to the 4 most commonly detected species detected in the Phase 1 assessment area during the 2018 Spring Survey program which were; 1) Ovenbird, 2) White-throated Sparrow, 3) Magnolia Warbler, 4) Black-throated Green Warbler.

During the breeding nightjar surveys detections of Common Nighthawk were made at all 4 survey locations. Both 'peeent' vocalizations and 'wing boom' displays were heard, however, 'wing boom' displays were limited survey location #2 and #4 (refer to **Figure 4**).

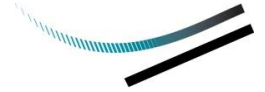
During the summer diurnal watch count surveys 3 SAR were detected including: Common Nighthawk, Bald Eagle and Turkey Vulture. Many other non-SAR raptors/corvids and other bird species were also detected regularly, representing a similar species assemblage as was observed during the 2018 avian survey program in the Phase 1 assessment area. Those species include, but are not limited to American Crow, Common Raven, Northern Harrier (*Circus cyaneus*), Red-tailed Hawk (*Buteo jamaicensis*), Broad-winged hawk (*Buteo platypterus*), American Kestrel (*Falco sparverius*), Northern Flicker, Blue Jay and Cedar Waxwing. A notable observation made during the summer diurnal watch count surveys were that many species, including, swallows, Cedar Waxwings and warblers would 'hawk' for insects above spruce plantations. The aerial insectivores would remain in flight, while the waxwings and warblers employed 'sallying' flights from the tops of the young spruce trees.

Refer to the attached **Tables 35-48** for detailed results of all surveys conducted during the 2019 spring field program.

## **FALL SURVEYS**

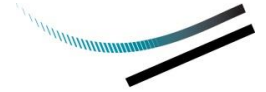
The fall survey program (mid-August – mid-October) included: point counts along the pre-determined transect and diurnal watch counts and breeding nightjar surveys.

A summary of the species detected during point counts and their relative abundance is provided in **Table 49**.

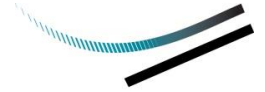


**TABLE 49: SUMMARY OF THE RELATIVE ABUNDANCE OF SPECIES DETECTED DURING FALL POINT COUNT SURVEYS IN 2019**

Common Name	Scientific Name	Total Number Detected	ACCDC S-Ranking
White-throated Sparrow	<i>Zonotrichia albicollis</i>	156	S5B,S5M
American Robin	<i>Turdus migratorius</i>	87	S5B,S5M
Cedar Waxwing	<i>Bombycilla cedrorum</i>	63	S5B,S5M
Palm Warbler	<i>Setophaga palmarum</i>	61	S5B,S5M
Blue Jay	<i>Cyanocitta cristata</i>	60	S5
Passerine Spp.	-	57	N/A
Yellow-rumped Warbler	<i>Setophaga coronata</i>	52	S5B,S5M
Song Sparrow	<i>Melospiza melodia</i>	46	S5B,S5M
Dark-eyed Junco	<i>Junco hyemalis</i>	45	S5
American Crow	<i>Corvus brachyrhynchos</i>	44	S5
Northern Flicker	<i>Colaptes auratus</i>	41	S5B,S5M
Warbler Spp.	-	36	N/A
Black-capped Chickadee	<i>Poecile atricapillus</i>	35	S5
Common Raven	<i>Corvus corax</i>	33	S5
Common Yellowthroat	<i>Geothlypis trichas</i>	25	S5B,S5M
Red-breasted Nuthatch	<i>Sitta canadensis</i>	21	S5
American Goldfinch	<i>Spinus tristis</i>	16	S5
Golden-crowned Kinglet	<i>Regulus satrapa</i>	12	S5
Red-eyed Vireo	<i>Vireo olivaceus</i>	10	S5B,S5M
Blue-headed Vireo	<i>Vireo solitarius</i>	10	S5B,S5M
American Kestrel	<i>Falco sparverius</i>	9	S4B,S4S5M
Black-throated Green Warbler	<i>Setophaga virens</i>	9	S5B,S5M



Hermit Thrush	<i>Catharus guttatus</i>	8	S5B,S5M
Cape May Warbler	<i>Setophaga tigrina</i>	7	S3B,S4S5M
Red Crossbill	<i>Loxia curvirostra</i>	7	S3
Downy Woodpecker	<i>Dryobates pubescens</i>	6	S5
Ruby-crowned Kinglet	<i>Regulus calendula</i>	5	S4B,S5M
Magnolia Warbler	<i>Setophaga magnolia</i>	5	S5B,S5M
Pine Warbler	<i>Setophaga pinus</i>	5	S5B,S5M
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	4	S5B,S5M
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	4	S5B,S5M
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	4	S5B,S5M
American Redstart	<i>Setophaga ruticilla</i>	4	S5B,S5M
Purple Finch	<i>Haemorhous purpureus</i>	4	S4S5B,SUN,S5M
Boreal Chickadee	<i>Poecile hudsonicus</i>	3	S4
Black-and-White Warbler	<i>Mniotilta varia</i>	3	S5B,S5M
Common Grackle	<i>Quiscalus quiscula</i>	3	S5B,S5M
Great Blue Heron	<i>Ardea herodias</i>	2	S4B,S4M
Northern Harrier	<i>Circus hudsonius</i>	2	S4B,S4S5M
Hairy Woodpecker	<i>Dryobates villosus</i>	2	S5
Pileated Woodpecker	<i>Dryocopus pileatus</i>	2	S5
Alder Flycatcher	<i>Empidonax alnorum</i>	2	S5B,S5M
Northern Parula	<i>Setophaga americana</i>	2	S5B,S5M
White-winged Crossbill	<i>Loxia leucoptera</i>	2	S5

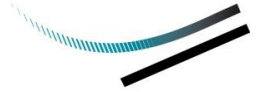


Pine Siskin	<i>Spinus pinus</i>	2	S3
Sharp-shinned Hawk	<i>Accipiter striatus</i>	1	S4B,S5M
Red-tailed Hawk	<i>Buteo jamaicensis</i>	1	S4
Bald Eagle	<i>Haliaeetus leucocephalus</i>	1	S4
Eastern Wood-Pewee	<i>Contopus virens</i>	1	S4B,S4M
White-breasted Nuthatch	<i>Sitta carolinensis</i>	1	S4
Northern Shrike	<i>Lanius borealis</i>	1	S4N,S4M
Wilson's Warbler	<i>Cardellina pusilla</i>	1	S4B,S5M
Black-throated Blue Warbler	<i>Setophaga caeruleascens</i>	1	S5B,S5M
Chipping Sparrow	<i>Spizella passerina</i>	1	S5B,S5M

There were 4 species of conservation concern detected during the fall survey point counts. These were the Pine Siskin, Red Crossbill, Bald Eagle and Eastern Wood-Pewee. The Pine Siskin, Bald Eagle and Eastern Wood-Pewee were also detected during the 2018 avian survey program in the Phase 1 assessment area, however, Red Crossbills were not.

The 5 most commonly detected species were the White-throated Sparrow, American Robin, Cedar Waxwing, Palm Warbler and Blue Jay, all of which are ranked S5 or S5B by the ACCDC.

During the fall diurnal watch count surveys 2 SAR were detected including: Olive-sided Flycatcher and Bald Eagle. Many other non-SAR raptors/corvids and other bird species were also detected regularly, representing a similar species assemblage as was observed during the 2018 Avian Survey program in the Phase 1 assessment area. Those species include, but are not limited to American Crow, Common Raven, Northern Harrier (*Circus cyaneus*), Red-tailed Hawk (*Buteo jamaicensis*), Broad-winged hawk (*Buteo platypterus*), American Kestrel (*Falco sparverius*), Northern Flicker, Blue Jay and Cedar Waxwing. The most notable observations made during the fall diurnal watch count surveys were that a number of passerine flocks greater than 50 birds were detected passing above the assessment area on a number of different days. The largest of these flocks was detected on September 29, 2019 from PC



location #2, and was estimated at between 300 to 400 birds. This was likely a mixed flock of vireos, warblers, and other similar sized birds.

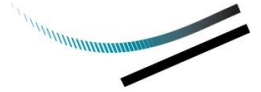
Refer to the attached **Tables 50-59** for detailed results of surveys conducted during the 2019 spring field program.

### **SUMMARY**

Overall, the species assemblage observed and detected in the Phase 2 assessment area in 2019 was very similar to that detected in the Phase 1 assessment area during the 2018 avian survey program. This is likely in large part due to the similarities in habitat types provided by the 2 areas, namely conifer plantations, regenerating early successional forest and some mature hardwood-dominated mixed forest.

Accordingly, many of the same SAR were detected in the Phase 2 assessment area as were detected in the Phase 1 area including the Bald Eagle, Turkey Vulture, Common Nighthawk, Pine Siskin, Eastern Wood-Pewee and Olive-sided Flycatcher. However, there were 2 SAR that were detected in the Phase 2 area that were not detected in the Phase 1 area; 1) Evening Grosbeak and 2) Red Crossbill.





## CLOSING

This report was prepared by Dillon Consulting Limited (Dillon) on behalf of the Wocawson Energy Limited Partnership, in support of the Wocawson Energy Project – Phase II. Dillon has used the degree of care and skill ordinarily exercised under similar circumstances at the time the work was performed by reputable members of the environmental consulting profession practicing in Canada. Dillon assumes no responsibility for conditions which were beyond its scope of work. There is no warranty expressed or implied by Dillon.

The material in the report reflects Dillon's best judgment in light of the information available to Dillon at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Dillon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Dillon appreciates the opportunity to work on this interesting Project and trusts that this assessment and deliverable fulfills the objectives of the Project. If you have any questions regarding the methods and results described herein, please do not hesitate to contact Kristin Banks at 506.444.8820 or by email at [kbanks@dillon.ca](mailto:kbanks@dillon.ca) at your convenience.

Sincerely,

**DILLON CONSULTING LIMITED**

Kristin Banks, P.Eng.  
Project Manager

KDB:vlg:cab  
Attachment(s)  
Our file: 19-9744



## Figures

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








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Wocawson Energy Project

Proposed Collector Lines Site Plan Phase II  
FIGURE 1

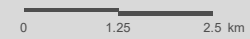


- |  |   |
|--|---|
|  Project Location | <b>Road Network</b>   |
|  Watercourses     |  Expressway / Highway |
|  |  Freeway              |
|  |  Local / Street       |



MAP DRAWING INFORMATION:  
DATA PROVIDED BY NBDERD

MAP CREATED BY: JNH  
MAP CHECKED BY: AS  
MAP PROJECTION: NAD 1983 CSRS New Brunswick Stereographic



SCALE 1:100,000



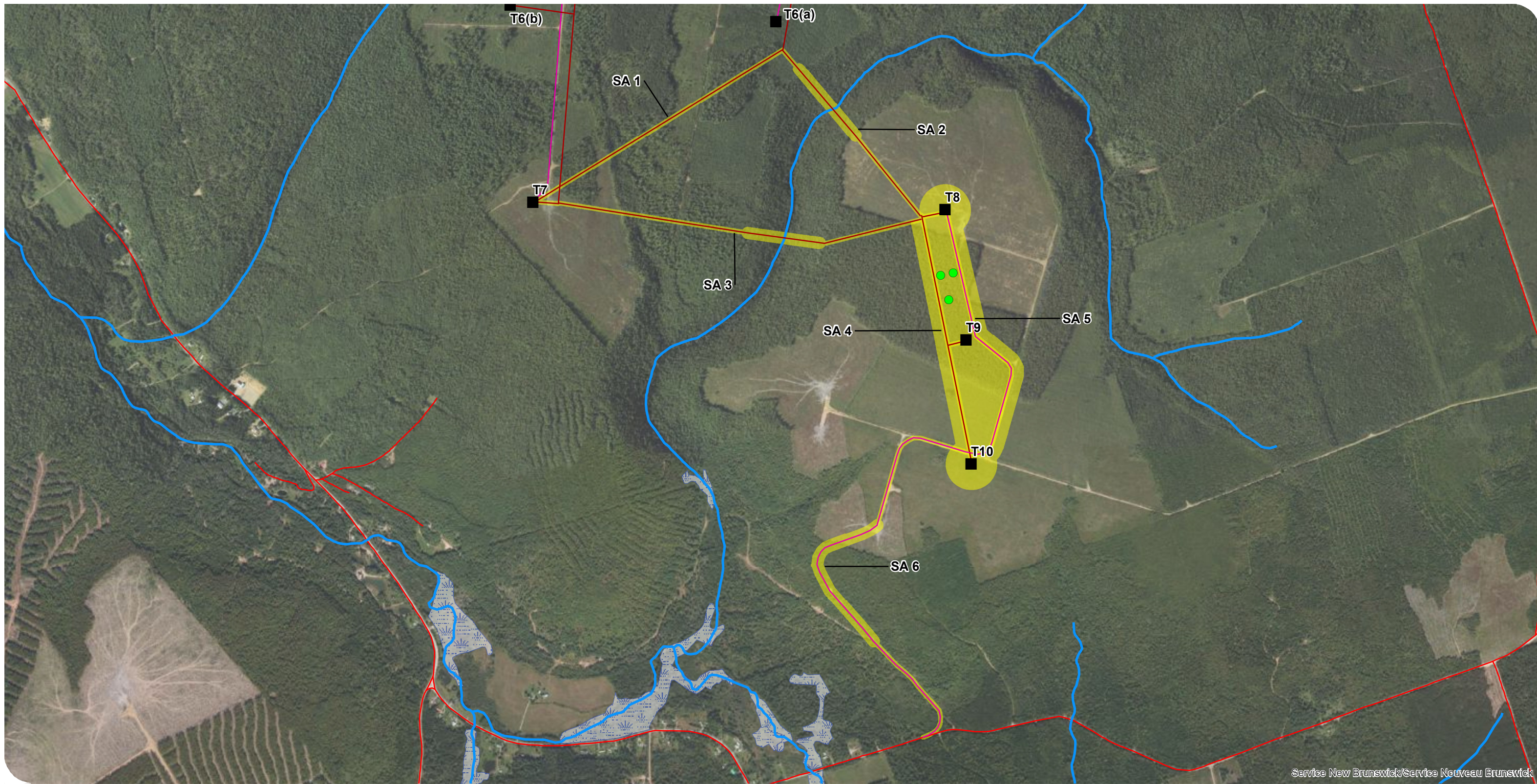
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EAST\SUSSEX EAST WIND PROJECT\MAPS FOR REPORT\  
PROJECT LOCATION JULY 4 2018\_JNH

PROJECT: 18-6975

STATUS: DRAFT

DATE: 2019-11-29





Service New Brunswick/Service Nouveau Brunswick

NATURAL FORCES INC  
Wocawson Energy Project

Vegetation Survey Phase II  
FIGURE 2

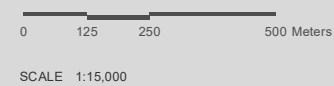


- Crowded Sedge (*Carex adusta*)
- Watercourses
- Phase II Turbine Locations
- Roads
- Phase 2 Layout**
- Study Area
- Collector
- Regulated Wetlands
- Road



MAP DRAWING INFORMATION:  
DATA PROVIDED BY NBDERD

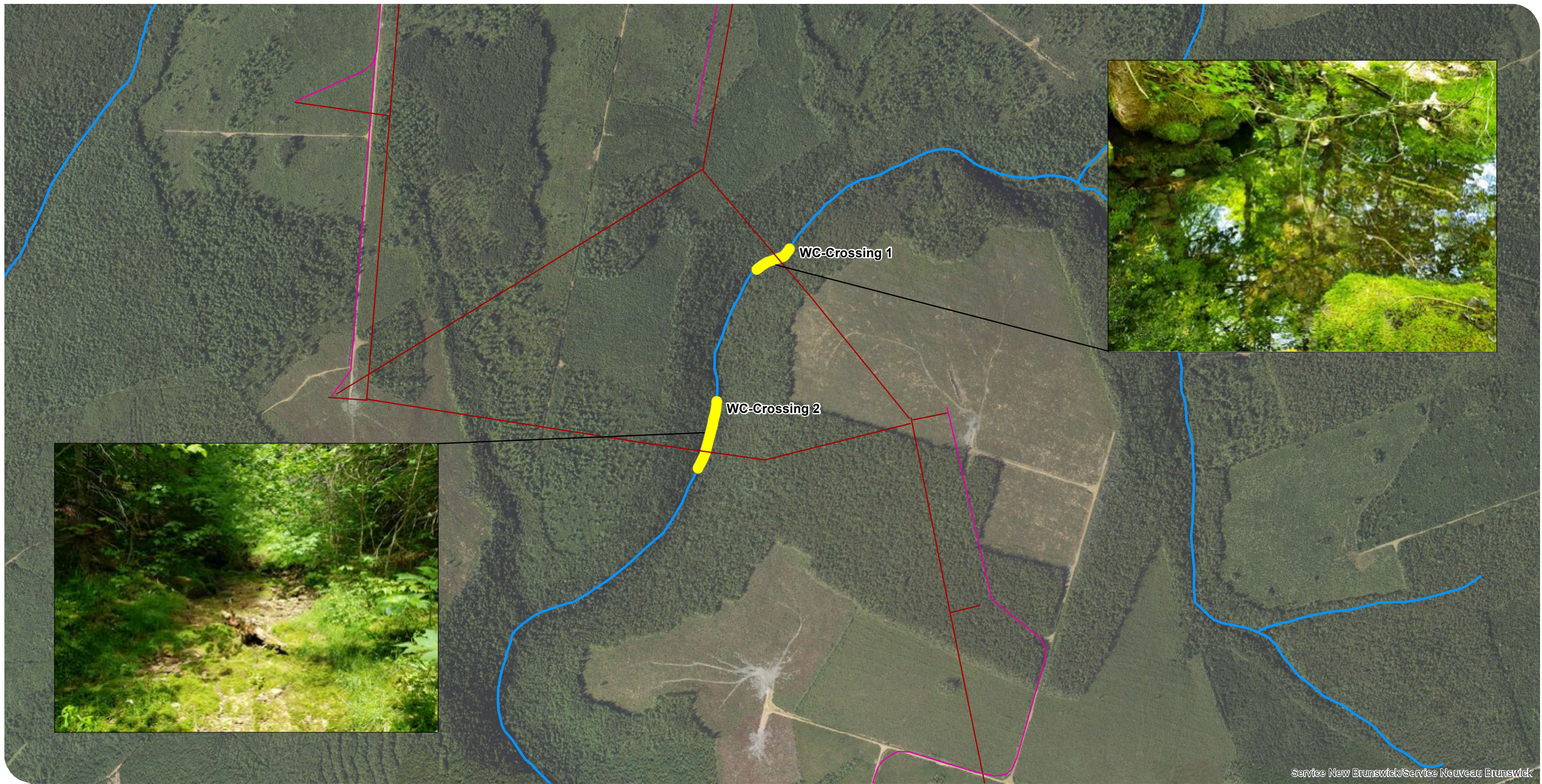
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FILE LOCATION: G:\CAD\GIS\186975\_SUSSEX EAST\DATA\_MAPS  
MXDS\FIGURE 1 ASSESSMENT AREA AND SUB-STUDY AREAS

PROJECT: 19-9744 STATUS: DRAFT DATE: 2019-11-29





Service New Brunswick/Service Nouveau Brunswick

**NATURAL FORCES INC**  
Wocawson Energy Project

**Watercourses Phase II**  
FIGURE 3

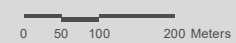


- WATERCOURSE ASSESSMENT AREA
- WATERCOURSES
- PROPOSED COLLECTOR LINES
- PROPOSED COLLECTOR ROADS



MAP DRAWING INFORMATION:  
DATA PROVIDED BY NBDERD

MAP CREATED BY: GM  
MAP CHECKED BY: AS  
MAP PROJECTION: NAD 1983 CSRS New Brunswick Stereographic



SCALE 1:10,000



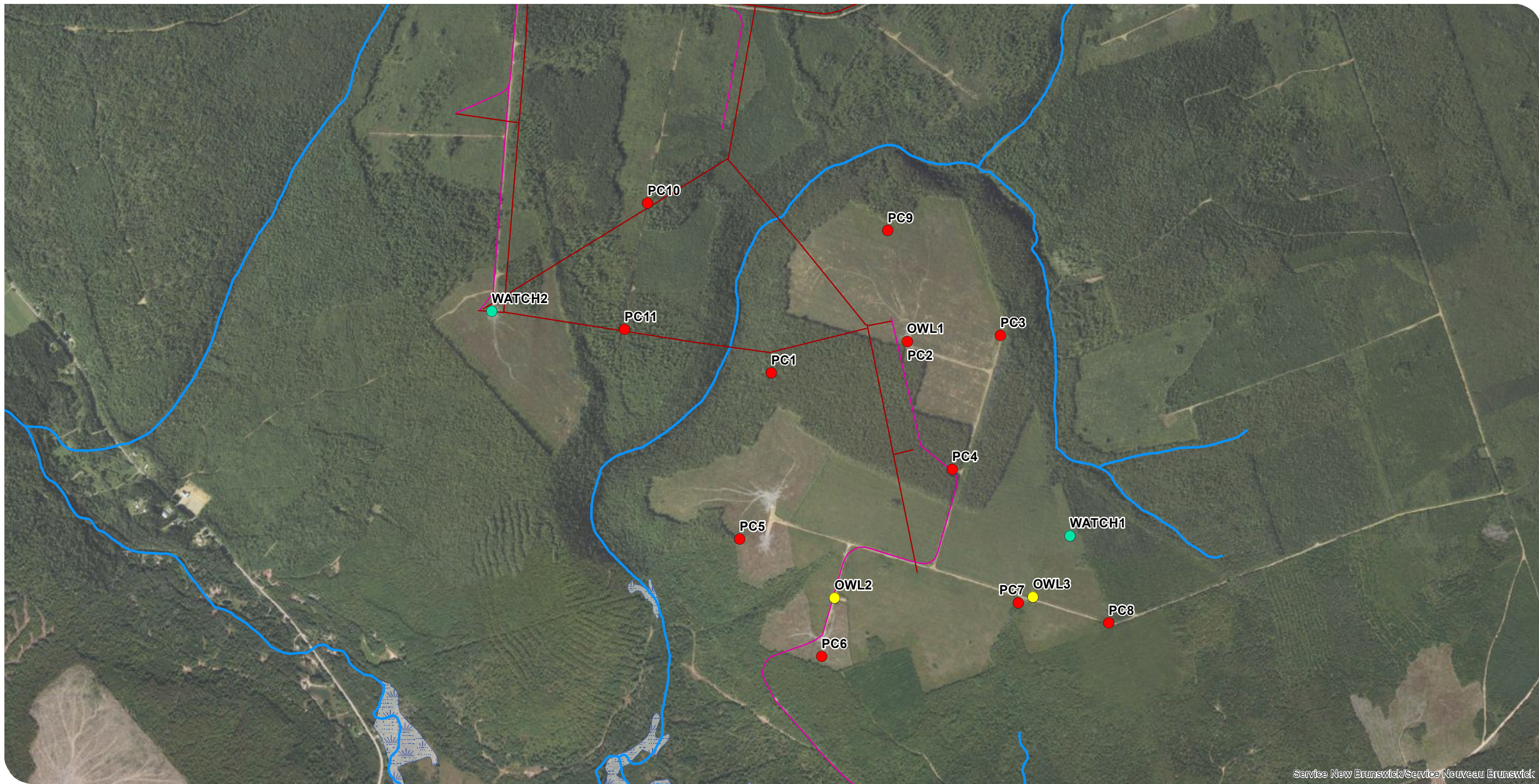
FILE LOCATION: G:\CAD\GIS\186975\_SUSSEX EAST\DATA\_MAPS  
MXDS\FIGURE 2 LOCATION OF RARE PLANT SPECIES OCCURRENCES

PROJECT: 19-9744

STATUS: DRAFT

DATE: 2019-11-29





NATURAL FORCES INC  
Wocawson Energy Project

Avian Survey Locations Phase II  
FIGURE 4



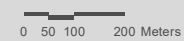
- OWL COUNT
- POINT COUNT
- WATCH COUNT

- PROPOSED COLLECTOR LINES
- PROPOSED COLLECTOR ROADS
- WATERCOURSES
- REGULATED WETLANDS



MAP DRAWING INFORMATION:  
DATA PROVIDED BY NBDERD

MAP CREATED BY: GM  
MAP CHECKED BY: AS  
MAP PROJECTION: NAD 1983 CSRS New Brunswick Stereographic



SCALE 1:15,000



FILE LOCATION: G:\CAD\GIS\186975\_SUSSEX EAST\DATA\_MAPS  
MXDS\FIGURE 2 LOCATION OF RARE PLANT SPECIES OCCURRENCES

PROJECT: 19-9744

STATUS: DRAFT

DATE: 2019-09-16



# Tables

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Table 1: Vegetation Species Observed Within the Assessment Area, June 6, 2019

Scientific Name	Common Name	S-Rank	Provincial SARA Status	Federal SARA Status	COSEWIC Status
<b>Trees</b>					
<i>Malus Spp.</i>	Crab Apple	-	-	-	-
<b>Shrubs</b>					
<i>Salix spp.</i>	Willow Species	-	-	-	-
<i>Rubus idaeus</i>	Red Raspberry	S5	-	-	-
<i>Rubus allegheniensis</i>	Alleghaney Blackberry	S5	-	-	-
<i>Prunus spp.</i>	Cherry Species	SNA	-	-	-
<i>Sorbus americana</i>	American Mountain Ash	S5	-	-	-
<i>Spiraea alba</i>	White Meadowsweet	S5	-	-	-
<i>Craetagus spp.</i>	Hawthorn Species	SNA	-	-	-
<i>Picea glauca</i>	White Spruce	S5	-	-	-
<i>Acer rubrum</i>	Red Maple	S5	-	-	-
<i>Rosa multiflora</i>	Multiflora Rose	SNA	-	-	-
<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	-	-	-
<i>Vaccinium myrtilloides</i>	Velvet-leaved Blueberry	S5	-	-	-
<i>Kalmia angustifolia</i>	Sheep Laurel	S5	-	-	-
<i>Rosa virginiana</i>	Virginia Rose	S5	-	-	-
<i>Rosa rugosa</i>	Rugosa Rose	SNA	-	-	-
<b>Herbaceous Plants</b>					
<i>Trillium cernuum</i>	Nodding Trillium	S5	-	-	-
<i>Aralia hispida</i>	Bristly Sarsaparilla	S5	-	-	-
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	S5	-	-	-
<i>Trientalis borealis</i>	Northern Starflower	S5	-	-	-
<i>Cornus canadensis</i>	Bunchberry	S5	-	-	-
<i>Solidago spp. (not yet identifiable)</i>	Goldenrod Species	SNA	-	-	-
<i>Solidago rugosa</i>	Rough-stemmed Goldenrod	S5	-	-	-
<i>Rubus hispids</i>	Bristly Dewberry	S5	-	-	-
<i>Linaria vulgaris</i>	Butter-and-Eggs	SNA	-	-	-
<i>Carex spp. (not yet identifiable)</i>	Sedge Species	SNA	-	-	-
<i>Onoclea sensibilis</i>	Sensitive Fern	S5	-	-	-
<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	-	-	-
<i>Pteridium aquilinum</i>	Bracken Fern	S5	-	-	-
<i>Polygonum cilinode</i>	Fringed Black Bindweed	S5	-	-	-
<i>Rumex acetosella</i>	Sheep Sorrel	SNA	-	-	-
<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	-	-	-
<i>Thalictrum pubescens</i>	Tall Meadow-Rue	S5	-	-	-
<i>Veronica officinalis</i>	Common Speedwell	S5	-	-	-
<i>Circaea alpina</i>	Small Enchanter's Nightshade	S5	-	-	-
<i>Ranunculus acris</i>	Common Buttercup	S5	-	-	-
<i>Clintonia borealis</i>	Yellow Bluebead Lily	S5	-	-	-
<i>Linnaea borealis</i>	Twinflower	S5	-	-	-
<i>Cypripedium acaule</i>	Pink Lady's-Slipper	S5	-	-	-
<i>Viola macloskeyi</i>	Small White Violet	S5	-	-	-
<i>Viola cucullata</i>	Marsh Blue Violet	S5	-	-	-
Total Species - 41					

Notes/Legend:

**BOLD** Denotes Species at Risk**BOLD** Denotes Species of Conservation Concern*ITALICS* Common Name Denotes Provincially RareS Ranks:

S1 Extremely rare in province.

S2 Rare in province.

S3 Uncommon in province.

S4 Widespread, common and apparently secure in province.

S5 Widespread, abundant and demonstrably secure in province.

SNA Not applicable because the species is not a suitable target for conservation activities.

**TABLE 3: AQUATIC HABITAT ASSESSMENT RAW DATA**

Site ID	Longitude (x)	Latitude (y)	Ambient Water Conductivity (Ca)	TDS	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	ORP	Water Clarity	Water Level	Start Water Temp	End Water Temp:
WC - Crossing 1 (upstream)	-65.27684613	45.7703239	0.29	0.19	7.15	12.01	102.2	220	Good	Low	7.21	17
Upstream - 50 m	-65.27748957	45.770132	0.28	0.18	6.56	14.28	122.4	231	Good	Low	7.27	7.3
Upstream + 50 m	-65.27637589	45.7706587	0.28	0.18	6.42	13.36	112.3	253	Good	Low	7.04	7.05
WC - Crossing 2 (downstream)	-65.27941932	45.7657066	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Downstream - 50 m	-65.27968427	45.7653354	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Downstream + 50 m	-65.27919501	45.7661218	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Downstream + 150 m	-65.27887967	45.7669593	0.25	0.16	7.27	11.23	106.5	245	Good	Low	11.13	11.13

TABLE 7: SPECIES OBSERVATION AT PC#1

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sqsrnk	noteRank	
		2					Double-crested Cormorant	Phalacrocorax auritus	S5B,S5M	4 Secure	Breeding	
						2	Common Merganser	Mergerganser	S5B,S4N,S5M	4 Secure	Breeding	
1	1	1	1		1	1	Northern Flicker	Colaptes auratus	S5B,S5M	4 Secure	Breeding	
1	2	2	1	2	2	1	Yellow-bellied Sapsucker	Sphyrapicus varius	S5B,S5M	4 Secure	Breeding	
						6	Blue Jay	Cyanocitta cristata	S5	4 Secure		
				2		3	2	Black-capped Chickadee	Poecile atricapillus	S5	4 Secure	
1				1			Red-breasted Nuthatch	Sitta canadensis	S5	4 Secure		
1							Brown Creeper	Certhia americana	S5	4 Secure		
			1	1			Winter Wren	Troglodytes hiemalis	S5B,S5M	4 Secure	Breeding	
			2	5	3	3	Hermit Thrush	Catharus guttatus	S5B,S5M	4 Secure	Breeding	
						2	Swainson's Thrush	Catharus ustulatus	S5B,S5M	4 Secure	Breeding	
		3		3		2	American Robin	Turdus migratorius	S5B,S5M	4 Secure	Breeding	
				2	2	2	Common Yellowthroat	Geothlypis trichas	S5B,S5M	4 Secure	Breeding	
	1					1	Dark-eyed Junco	Junco hyemalis	S5	4 Secure		
				1		1	Black-and-White Warbler	Mniotilta varia	S5B,S5M	4 Secure	Breeding	
			1				Nashville Warbler	Oreothlypis ruficapilla	S5B,S5M	4 Secure	Breeding	
		1	1	4	2	3	Ovenbird	Seiurus aurocapilla	S5B,S5M	4 Secure	Breeding	
						1	Northern Parula	Setophaga americana	S5B,S5M	4 Secure	Breeding	
					1		Black-throated Blue Warbler	Setophaga caerulescens	S5B,S5M	4 Secure	Breeding	
					1		Bay-breasted Warbler	Setophaga castanea	S4B,S4S5M	4 Secure	Breeding	
1							Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding	
						1	Magnolia Warbler	Setophaga magnolia	S5B,S5M	4 Secure	Breeding	
		1	1				Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding	
					2	2	Chestnut-sided Warbler	Setophaga pensylvanica	S5B,S5M	4 Secure	Breeding	
					2	3	American Redstart	Setophaga ruticilla	S5B,S5M	4 Secure	Breeding	
					2	2	Black-throated Green Warbler	Setophaga virens	S5B,S5M	4 Secure	Breeding	
4	4	3	2	1	2	3	White-throated Sparrow	Zonotrichia albicollis	S5B,S5M	4 Secure	Breeding	
1	1	1					Purple Finch	Haemorhous purpureus	S4S5B,SUN,S5M	4 Secure	Breeding	
			1	1			American Goldfinch	Spinus tristis	S5	4 Secure		



TABLE 8: SPECIES OBSERVATION AT PC#2

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sgsrank	noteRank
				1			Mourning Dove	Zenaida macroura	S5B,S5M,S4N	4 Secure	Breeding
						1	Ruby-throated Hummingbird	Archilochus colubris	S5B,S5M	4 Secure	Breeding
	1	1		1		1	Northern Flicker	Colaptes auratus	S5B,S5M	4 Secure	Breeding
	1						Yellow-bellied Sapsucker	Sphyrapicus varius	S5B,S5M	4 Secure	Breeding
	2				1		American Crow	Corvus brachyrhynchos	S5	4 Secure	
1				1			Common Raven	Corvus corax	S5	4 Secure	
						16	Blue Jay	Cyanocitta cristata	S5	4 Secure	
1		2	1				Hermit Thrush	Catharus guttatus	S5B,S5M	4 Secure	Breeding
		1		2	1	2	American Robin	Turdus migratorius	S5B,S5M	4 Secure	Breeding
					2	3	Common Yellowthroat	Geothlypis trichas	S5B,S5M	4 Secure	Breeding
	2	1	2	2	2	1	Dark-eyed Junco	Junco hyemalis	S5	4 Secure	
				1			Lincoln's Sparrow	Melospiza lincolnii	S4B,S5M	4 Secure	Breeding
2		2		1	2	2	Song Sparrow	Melospiza melodia	S5B,S5M	4 Secure	Breeding
1				1	1		Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding
				1			Magnolia Warbler	Setophaga magnolia	S5B,S5M	4 Secure	Breeding
		1		1		1	Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding
5		2	3	4	3	4	White-throated Sparrow	Zonotrichia albicollis	S5B,S5M	4 Secure	Breeding
		1					American Goldfinch	Spinus tristis	S5	4 Secure	

TABLE 9: SPECIES OBSERVATION AT PC#3

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sgsrank	noteRank
				2			Canada Goose	Branta canadensis	SNAB,S5M	4 Secure	Exotic Breeding
		1					American Kestrel	Falco sparverius	S4B,S4S5M	4 Secure	Breeding
1	1	1	1	1	1	1	Ruffed Grouse	Bonasa umbellus	S5	4 Secure	
		1				1	Mourning Dove	Zenaida macroura	S5B,S5M,S4N	4 Secure	Breeding
	1	2					Northern Flicker	Colaptes auratus	S5B,S5M	4 Secure	Breeding
				1			Hairy Woodpecker	Dryobates villosus	S5	4 Secure	
						1	Least Flycatcher	Empidonax minimus	S5B,S5M	4 Secure	Breeding
	1					1	American Crow	Corvus brachyrhynchos	S5	4 Secure	
		1				6	Blue Jay	Cyanocitta cristata	S5	4 Secure	
1	1			2		1	Black-capped Chickadee	Poecile atricapillus	S5	4 Secure	
				1		1	Red-breasted Nuthatch	Sitta canadensis	S5	4 Secure	
			1				Winter Wren	Troglodytes hiemalis	S5B,S5M	4 Secure	Breeding
				2		1	Hermit Thrush	Catharus guttatus	S5B,S5M	4 Secure	Breeding
1							Ruby-crowned Kinglet	Regulus calendula	S4B,S5M	4 Secure	Breeding
1							Golden-crowned Kinglet	Regulus satrapa	S5	4 Secure	
1	1	1		3	2	2	American Robin	Turdus migratorius	S5B,S5M	4 Secure	Breeding
			1	1			Blue-headed Vireo	Vireo solitarius	S5B,S5M	4 Secure	Breeding
						2	Common Yellowthroat	Geothlypis trichas	S5B,S5M	4 Secure	Breeding
1	1	1	1			2	Dark-eyed Junco	Junco hyemalis	S5	4 Secure	
							Swamp Sparrow	Melospiza georgiana	S5B,S5M	4 Secure	Breeding
						2	Lincoln's Sparrow	Melospiza lincolni	S4B,S5M	4 Secure	Breeding
1		1					Song Sparrow	Melospiza melodia	S5B,S5M	4 Secure	Breeding
				1	1	1	Ovenbird	Seiurus aurocapilla	S5B,S5M	4 Secure	Breeding
						1	Northern Parula	Setophaga americana	S5B,S5M	4 Secure	Breeding
1							Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding
						1	Magnolia Warbler	Setophaga magnolia	S5B,S5M	4 Secure	Breeding
2				1			Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding
						2	Chestnut-sided Warbler	Setophaga pensylvanica	S5B,S5M	4 Secure	Breeding
						1	American Redstart	Setophaga ruticilla	S5B,S5M	4 Secure	Breeding
				1	1	2	Black-throated Green Warbler	Setophaga virens	S5B,S5M	4 Secure	Breeding
	1						Chipping Sparrow	Spizella passerina	S5B,S5M	4 Secure	Breeding
5	2	4	4	3	3	3	White-throated Sparrow	Zonotrichia albicollis	S5B,S5M	4 Secure	Breeding
	1						Purple Finch	Haemorhous purpureus	S4S5B,SUN,S5M	4 Secure	Breeding
			1				American Goldfinch	Spinus tristis	S5	4 Secure	
						1	Vireo Spp.	Vireonidae Spp.			

TABLE 10: SPECIES OBSERVATION AT PC#4

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sgsrank	noteRank
		1					Mourning Dove	Zenaida macroura	S5B,S5M,S4N	4 Secure	Breeding
1		1		1		1	Northern Flicker	Colaptes auratus	S5B,S5M	4 Secure	Breeding
1						1	Yellow-bellied Sapsucker	Sphyrapicus varius	S5B,S5M	4 Secure	Breeding
					1		Least Flycatcher	Empidonax minimus	S5B,S5M	4 Secure	Breeding
	2						American Crow	Corvus brachyrhynchos	S5	4 Secure	
					1		Common Raven	Corvus corax	S5	4 Secure	
						9	Blue Jay	Cyanocitta cristata	S5	4 Secure	
					2	1	Hermit Thrush	Catharus guttatus	S5B,S5M	4 Secure	Breeding
						1	Ruby-crowned Kinglet	Regulus calendula	S4B,S5M	4 Secure	Breeding
4		2	1		3	2	American Robin	Turdus migratorius	S5B,S5M	4 Secure	Breeding
					3	2	Common Yellowthroat	Geothlypis trichas	S5B,S5M	4 Secure	Breeding
	1				2	1	Dark-eyed Junco	Junco hyemalis	S5	4 Secure	
				1		1	Lincoln's Sparrow	Melospiza lincolni	S4B,S5M	4 Secure	Breeding
	2	1	1	2	2	2	Song Sparrow	Melospiza melodia	S5B,S5M	4 Secure	Breeding
					1	1	Nashville Warbler	Oreothlypis ruficapilla	S5B,S5M	4 Secure	Breeding
						1	Ovenbird	Seiurus aurocapilla	S5B,S5M	4 Secure	Breeding
		1		2	1		Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding
					2		Magnolia Warbler	Setophaga magnolia	S5B,S5M	4 Secure	Breeding
		1					Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding
3	3	3	3	4	5	4	White-throated Sparrow	Zonotrichia albicollis	S5B,S5M	4 Secure	Breeding
1				1			Purple Finch	Haemorhous purpureus	S4S5B,SUN,S5M	4 Secure	Breeding
2						2	American Goldfinch	Spinus tristis	S5	4 Secure	

TABLE 11: SPECIES OBSERVATION AT PC#5

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sgsrank	noteRank
2							Canada Goose	Branta canadensis	SNAB,S5M	4 Secure	Exotic Breeding
						1	American Kestrel	Falco sparverius	S4B,S4S5M	4 Secure	Breeding
			1				Mourning Dove	Zenaidura macroura	S5B,S5M,S4N	4 Secure	Breeding
						1	Ruby-throated Hummingbird	Archilochus colubris	S5B,S5M	4 Secure	Breeding
	1	1	1	2	2		Northern Flicker	Colaptes auratus	S5B,S5M	4 Secure	Breeding
1				1			Downy Woodpecker	Dryobates pubescens	S5	4 Secure	
		1					Hairy Woodpecker	Dryobates villosus	S5	4 Secure	
1	1	2	1		2	1	Yellow-bellied Sapsucker	Sphyrapicus varius	S5B,S5M	4 Secure	Breeding
					1	3	American Crow	Corvus brachyrhynchos	S5	4 Secure	
				2			Common Raven	Corvus corax	S5	4 Secure	
1				1		6	Blue Jay	Cyanocitta cristata	S5	4 Secure	
		2	2				Black-capped Chickadee	Poecile atricapillus	S5	4 Secure	
		1				2	Red-breasted Nuthatch	Sitta canadensis	S5	4 Secure	
						1	Winter Wren	Troglodytes hiemalis	S5B,S5M	4 Secure	Breeding
		1	1			3	Hermit Thrush	Catharus guttatus	S5B,S5M	4 Secure	Breeding
		1					Ruby-crowned Kinglet	Regulus calendula	S4B,S5M	4 Secure	Breeding
3	2	5	1	3	1	1	American Robin	Turdus migratorius	S5B,S5M	4 Secure	Breeding
1				1			Blue-headed Vireo	Vireo solitarius	S5B,S5M	4 Secure	Breeding
						2	Common Yellowthroat	Geothlypis trichas	S5B,S5M	4 Secure	Breeding
2	1					1	Dark-eyed Junco	Junco hyemalis	S5	4 Secure	
1	2	1				1	Song Sparrow	Melospiza melodia	S5B,S5M	4 Secure	Breeding
				1			Black-and-White Warbler	Mniotilta varia	S5B,S5M	4 Secure	Breeding
				2	2	2	Ovenbird	Seiurus aurocapilla	S5B,S5M	4 Secure	Breeding
						1	Northern Parula	Setophaga americana	S5B,S5M	4 Secure	Breeding
1							Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding
						1	Magnolia Warbler	Setophaga magnolia	S5B,S5M	4 Secure	Breeding
		1					Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding
				1	1		American Redstart	Setophaga ruticilla	S5B,S5M	4 Secure	Breeding
				1	1	1	Black-throated Green Warbler	Setophaga virens	S5B,S5M	4 Secure	Breeding
4	4	5	3	1	4	3	White-throated Sparrow	Zonotrichia albicollis	S5B,S5M	4 Secure	Breeding
	1					1	Purple Finch	Haemorhous purpureus	S4S5B,SUN,S5M	4 Secure	Breeding
				2	4		American Goldfinch	Spinus tristis	S5	4 Secure	

TABLE 12: SPECIES OBSERVATION AT PC#6

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sqsrnk	noteRank
		4					Canada Goose	<i>Branta canadensis</i>	SNAB,S5M	4 Secure	Exotic Breeding
	1					2	Mourning Dove	<i>Zenaida macroura</i>	S5B,S5M,S4N	4 Secure	Breeding
1		1			2		Northern Flicker	<i>Colaptes auratus</i>	S5B,S5M	4 Secure	Breeding
				1			Hairy Woodpecker	<i>Dryobates villosus</i>	S5	4 Secure	
		1		1		1	Pileated Woodpecker	<i>Dryocopus pileatus</i>	S5	4 Secure	
		1					Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	S5B,S5M	4 Secure	Breeding
	1						American Crow	<i>Corvus brachyrhynchos</i>	S5	4 Secure	
						1	Common Raven	<i>Corvus corax</i>	S5	4 Secure	
				3			Blue Jay	<i>Cyanocitta cristata</i>	S5	4 Secure	
1					3	1	Black-capped Chickadee	<i>Poecile atricapillus</i>	S5	4 Secure	
					1		Boreal Chickadee	<i>Poecile hudsonicus</i>	S4	4 Secure	
1	1					1	Red-breasted Nuthatch	<i>Sitta canadensis</i>	S5	4 Secure	
	2	2	1	2	1	2	Hermit Thrush	<i>Catharus guttatus</i>	S5B,S5M	4 Secure	Breeding
	1						Golden-crowned Kinglet	<i>Regulus satrapa</i>	S5	4 Secure	
5	1	3			1	2	American Robin	<i>Turdus migratorius</i>	S5B,S5M	4 Secure	Breeding
				1		1	Blue-headed Vireo	<i>Vireo solitarius</i>	S5B,S5M	4 Secure	Breeding
				1	1	2	Common Yellowthroat	<i>Geothlypis trichas</i>	S5B,S5M	4 Secure	Breeding
1	1	2	1				Dark-eyed Junco	<i>Junco hyemalis</i>	S5	4 Secure	
		1		1			Song Sparrow	<i>Melospiza melodia</i>	S5B,S5M	4 Secure	Breeding
						1	Black-and-White Warbler	<i>Mniotilta varia</i>	S5B,S5M	4 Secure	Breeding
				1	2	1	Ovenbird	<i>Seiurus aurocapilla</i>	S5B,S5M	4 Secure	Breeding
					1	1	Northern Parula	<i>Setophaga americana</i>	S5B,S5M	4 Secure	Breeding
						2	Bay-breasted Warbler	<i>Setophaga castanea</i>	S4B,S4S5M	4 Secure	Breeding
1					1	1	Yellow-rumped Warbler	<i>Setophaga coronata</i>	S5B,S5M	4 Secure	Breeding
					2	1	Magnolia Warbler	<i>Setophaga magnolia</i>	S5B,S5M	4 Secure	Breeding
		1	1	1	1	1	Palm Warbler	<i>Setophaga palmarum</i>	S5B,S5M	4 Secure	Breeding
						1	American Redstart	<i>Setophaga ruticilla</i>	S5B,S5M	4 Secure	Breeding
				2	1	1	Black-throated Green Warbler	<i>Setophaga virens</i>	S5B,S5M	4 Secure	Breeding
9	3	3	4	3	3		White-throated Sparrow	<i>Zonotrichia albicollis</i>	S5B,S5M	4 Secure	Breeding
	2		1		1		American Goldfinch	<i>Spinus tristis</i>	S5	4 Secure	



TABLE 13: SPECIES OBSERVATION AT PC#7

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sgsrank	noteRank
		1		1			American Kestrel	Falco sparverius	S4B,S4S5M	4 Secure	Breeding
		1		1			Northern Flicker	Colaptes auratus	S5B,S5M	4 Secure	Breeding
		1					Yellow-bellied Sapsucker	Sphyrapicus varius	S5B,S5M	4 Secure	Breeding
						3	Black-capped Chickadee	Poecile atricapillus	S5	4 Secure	
			1	1			Red-breasted Nuthatch	Sitta canadensis	S5	4 Secure	
1			1	1	2	2	Hermit Thrush	Catharus guttatus	S5B,S5M	4 Secure	Breeding
1	1	2	1	1	1	2	Ruby-crowned Kinglet	Regulus calendula	S4B,S5M	4 Secure	Breeding
1	1			2	1	3	American Robin	Turdus migratorius	S5B,S5M	4 Secure	Breeding
					1		Blue-headed Vireo	Vireo solitarius	S5B,S5M	4 Secure	Breeding
					2		Common Yellowthroat	Geothlypis trichas	S5B,S5M	4 Secure	Breeding
1	3	1	2	2	1		Dark-eyed Junco	Junco hyemalis	S5	4 Secure	
				1	1		Black-and-White Warbler	Mniotilta varia	S5B,S5M	4 Secure	Breeding
					1		Ovenbird	Seiurus aurocapilla	S5B,S5M	4 Secure	Breeding
2		4		2		1	Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding
						1	Magnolia Warbler	Setophaga magnolia	S5B,S5M	4 Secure	Breeding
1						2	Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding
				1		1	Black-throated Green Warbler	Setophaga virens	S5B,S5M	4 Secure	Breeding
		2					Chipping Sparrow	Spizella passerina	S5B,S5M	4 Secure	Breeding
4	3	3	1	5	4	3	White-throated Sparrow	Zonotrichia albicollis	S5B,S5M	4 Secure	Breeding
	1						Evening Grosbeak	Coccothraustes vespertinus	S3B,S3S4N,SUM	3 Sensitive	Breeding
1	1		1		1		Purple Finch	Haemorhous purpureus	S4S5B,SUN,S5M	4 Secure	Breeding
		8					Pine Siskin	Spinus pinus	S3	4 Secure	
1							American Goldfinch	Spinus tristis	S5	4 Secure	

TABLE 14: SPECIES OBSERVATION AT PC#8

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sgsrank	noteRank
3					1		Northern Flicker	Colaptes auratus	S5B,S5M	4 Secure	Breeding
1					1		Yellow-bellied Sapsucker	Sphyrapicus varius	S5B,S5M	4 Secure	Breeding
				1			Least Flycatcher	Empidonax minimus	S5B,S5M	4 Secure	Breeding
1	1						American Crow	Corvus brachyrhynchos	S5	4 Secure	
		2		2			Blue Jay	Cyanocitta cristata	S5	4 Secure	
					2	1	Black-capped Chickadee	Poecile atricapillus	S5	4 Secure	
	2	1	1	3	3	1	Hermit Thrush	Catharus guttatus	S5B,S5M	4 Secure	Breeding
		1	1			2	American Robin	Turdus migratorius	S5B,S5M	4 Secure	Breeding
	1		2	2	1	1	Dark-eyed Junco	Junco hyemalis	S5	4 Secure	
1							Song Sparrow	Melospiza melodia	S5B,S5M	4 Secure	Breeding
				1		1	Black-and-White Warbler	Mniotilta varia	S5B,S5M	4 Secure	Breeding
		1					Common Grackle	Quiscalus quiscula	S5B,S5M	4 Secure	Breeding
			1	1	2	1	Ovenbird	Seiurus aurocapilla	S5B,S5M	4 Secure	Breeding
					1		Northern Parula	Setophaga americana	S5B,S5M	4 Secure	Breeding
		1	1	2			Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding
					1		Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding
					1	1	Black-throated Green Warbler	Setophaga virens	S5B,S5M	4 Secure	Breeding
2	3		1	2	1	3	White-throated Sparrow	Zonotrichia albicollis	S5B,S5M	4 Secure	Breeding
2							Evening Grosbeak	Coccothraustes vespertinus	S3B,S3S4N,SUM	3 Sensitive	Breeding
						1	Purple Finch	Haemorhous purpureus	S4S5B,SUN,S5M	4 Secure	Breeding
	1			2		2	American Goldfinch	Spinus tristis	S5	4 Secure	

TABLE 15: SPECIES OBSERVATION AT PC#9

10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	SRank	Sqsrnk	noteRank
		1					Double-crested Cormorant	Phalacrocorax auritus	S5B,S5M	4 Secure	Breeding
	3	1	1	2	2		Northern Flicker	Colaptes auratus	S5B,S5M	4 Secure	Breeding
	2	1				1	Yellow-bellied Sapsucker	Sphyrapicus varius	S5B,S5M	4 Secure	Breeding
	2		1			2	American Crow	Corvus brachyrhynchos	S5	4 Secure	
		1					Common Raven	Corvus corax	S5	4 Secure	
		1		1			Blue Jay	Cyanocitta cristata	S5	4 Secure	
				1			Winter Wren	Troglodytes hiemalis	S5B,S5M	4 Secure	Breeding
	3		2		3	2	Hermit Thrush	Catharus guttatus	S5B,S5M	4 Secure	Breeding
	1			1	1		American Robin	Turdus migratorius	S5B,S5M	4 Secure	Breeding
	1	1	1				Blue-headed Vireo	Vireo solitarius	S5B,S5M	4 Secure	Breeding
					1	2	Common Yellowthroat	Geothlypis trichas	S5B,S5M	4 Secure	Breeding
				2		2	Dark-eyed Junco	Junco hyemalis	S5	4 Secure	
					1		Lincoln's Sparrow	Melospiza lincolnii	S4B,S5M	4 Secure	Breeding
					1		Black-and-White Warbler	Mniotilta varia	S5B,S5M	4 Secure	Breeding
					1		Nashville Warbler	Oreothlypis ruficapilla	S5B,S5M	4 Secure	Breeding
		1					Rose-breasted Grosbeak	Pheucticus ludovicianus	S4B,S4M	3 Sensitive	Breeding
			1	2	2	1	Ovenbird	Seiurus aurocapilla	S5B,S5M	4 Secure	Breeding
						1	Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding
				2	1	2	Magnolia Warbler	Setophaga magnolia	S5B,S5M	4 Secure	Breeding
						1	Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding
					1	3	Chestnut-sided Warbler	Setophaga pensylvanica	S5B,S5M	4 Secure	Breeding
					2		American Redstart	Setophaga ruticilla	S5B,S5M	4 Secure	Breeding
				1	1		Black-throated Green Warbler	Setophaga virens	S5B,S5M	4 Secure	Breeding
	1	4	1	1	3	4	White-throated Sparrow	Zonotrichia albicollis	S5B,S5M	4 Secure	Breeding
						1	American Goldfinch	Spinus tristis	S5	4 Secure	

TABLE 17 SPRING PC#1

6:08 AM	6:02 AM	9:12 AM	8:54 AM	6:02 AM	7:59 AM	5:55 AM							
2° C	0° C	4° C	3° C	2° C	5° C	3° C							
Wind: 1	Wind: 2-3	Wind: 1-2	Wind: 2-3	Wind: 0-1	Wind: 1-2	Wind: 0-1							
CC 70-80%	CC%	CC%	CC 90%	CC 10-20%	CC 50%	CC 10%							
Cloudy	Foggy	Fog lifting	Foggy, clear	Clear	Very light	Blue Sky							
10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
							Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
		2					Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
							Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
							Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
							Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
							Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
							American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
							Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
							Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
						2	Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
							Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
							Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
							Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
							Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
							Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
							Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
							Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
							Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
							Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
							Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
							American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
							Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
							Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
							Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
							Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
							Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
							Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
							Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
							Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
							American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
							Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
							Greater Yellowlegs	Tringa melanoleuca			S17B,S5M	4 Secure	UnknownStatus Breeding
							Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
							Herring Gull	Larus argentatus			S5	4 Secure	
							Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
							Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
							Great Black-backed Gull	Larus marinus			S5	4 Secure	
							Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
							Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
							Mourning Dove	Zenaidura macroura			S5B,S5M,S4N	4 Secure	Breeding
							Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
							Great Horned Owl	Bubo virginianus			S4	4 Secure	
							Barred Owl	Strix varia			S5	4 Secure	
							Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
							Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
							Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
							Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding
1	1	1	1		1	1	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
							Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
							Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
							Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
1	2	2	1	2	2	1	Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
							Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
							Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
							Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding

						American Crow	Corvus brachyrhynchos			S5	4 Secure															
						Common Raven	Corvus corax			S5	4 Secure															
					6	Blue Jay	Cyanocitta cristata			S5	4 Secure															
						Canada Jay	Perisoreus canadensis			S4	4 Secure															
				2	3	2	Black-capped Chickadee	Poecile atricapillus		S5	4 Secure															
							Boreal Chickadee	Poecile hudsonicus		S4	4 Secure															
1				1			Red-breasted Nuthatch	Sitta canadensis		S5	4 Secure															
							White-breasted Nuthatch	Sitta carolinensis		S4	4 Secure															
1							Brown Creeper	Certhia americana		S5	4 Secure															
				1	1		Winter Wren	Troglodytes hiemalis		S5B,S5M	4 Secure	Breeding														
							Veery	Catharus fuscescens		S4B,S4M	4 Secure	Breeding														
				2	5	3	3	Hermit Thrush	Catharus guttatus		S5B,S5M	4 Secure	Breeding													
							2	Swainson's Thrush	Catharus ustulatus		S5B,S5M	4 Secure	Breeding													
								Ruby-crowned Kinglet	Regulus calendula		S4B,S5M	4 Secure	Breeding													
								Golden-crowned Kinglet	Regulus satrapa		S5	4 Secure														
				3	3		2	American Robin	Turdus migratorius		S5B,S5M	4 Secure	Breeding													
								Gray Catbird	Dumetella carolinensis		S4B,S4M	4 Secure	Breeding													
								Northern Mockingbird	Mimus polyglottos		S2B,S2M	3 Sensitive	Breeding													
								Cedar Waxwing	Bombycilla cedrorum		S5B,S5M	4 Secure	Breeding													
								Bohemian Waxwing	Bombycilla garrulus		S5N,S5M	4 Secure	Non													
								Northern Shrike	Lanius borealis		S4N,S4M	4 Secure	Non													
								European Starling	Sturnus vulgaris		SNA	7 Exotic	Exotic													
								Warbling Vireo	Vireo gilvus		S3B,S3M	4 Secure	Breeding													
								Red-eyed Vireo	Vireo olivaceus		S5B,S5M	4 Secure	Breeding													
								Philadelphia Vireo	Vireo philadelphicus		S5B,S5M	4 Secure	Breeding													
								Blue-headed Vireo	Vireo solitarius		S5B,S5M	4 Secure	Breeding													
								Red-winged Blackbird	Agelaius phoeniceus		S4B,S4M	4 Secure	Breeding													
								Nelson's Sparrow	Ammodramus nelsoni	NAR	S4B,S4M	4 Secure	Breeding													
								Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding												
								Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding												
								Northern Cardinal	Cardinalis cardinalis			S4	4 Secure													
								Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding												
								Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding												
								Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding												
				2	2		2	Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding												
								1	Dark-eyed Junco	Junco hyemalis		S5	4 Secure													
									Swamp Sparrow	Melospiza georgiana		S5B,S5M	4 Secure	Breeding												
									Lincoln's Sparrow	Melospiza lincolnii		S4B,S5M	4 Secure	Breeding												
									Song Sparrow	Melospiza melodia		S5B,S5M	4 Secure	Breeding												
									1	Black-and-White Warbler	Mniotilta varia	S5B,S5M	4 Secure	Breeding												
										Brown-headed Cowbird	Molothrus ater	S3B,S3M	2 May Be At Risk	Breeding												
										Tennessee Warbler	Oreothlypis peregrina	S4B,S5M	4 Secure	Breeding												
				1						Nashville Warbler	Oreothlypis ruficapilla	S5B,S5M	4 Secure	Breeding												
										Northern Waterthrush	Parkesia noveboracensis	S4B,S5M	4 Secure	Breeding												
										Savannah Sparrow	Passerculus sandwichensis	S4S5B,S5M	4 Secure	Breeding												
										Fox Sparrow	Passerella iliaca	S4B,S5M	4 Secure	Breeding												
										Rose-breasted Grosbeak	Pheucticus ludovicianus	S4B,S4M	3 Sensitive	Breeding												
										Scarlet Tanager	Piranga olivacea	S3B,S3M	4 Secure	Breeding												
										Snow Bunting	Plectrophenax nivalis	S5N,S5M	4 Secure	Non												
										Common Grackle	Quiscalus quiscula	S5B,S5M	4 Secure	Breeding												
				1	1		4	2	3	Ovenbird	Seiurus aurocapilla	S5B,S5M	4 Secure	Breeding												
										1	Northern Parula	Setophaga americana	S5B,S5M	4 Secure	Breeding											
											1	Black-throated Blue Warbler	Setophaga caerulescens	S5B,S5M	4 Secure	Breeding										
												1	Bay-breasted Warbler	Setophaga castanea	S4B,S4S5M	4 Secure	Breeding									
													1	Yellow-rumped Warbler	Setophaga coronata	S5B,S5M	4 Secure	Breeding								
														1	Blackburnian Warbler	Setophaga fusca	S5B,S5M	4 Secure	Breeding							
															1	Magnolia Warbler	Setophaga magnolia	S5B,S5M	4 Secure	Breeding						
																1	Palm Warbler	Setophaga palmarum	S5B,S5M	4 Secure	Breeding					
																2	2	Chestnut-sided Warbler	Setophaga pensylvanica	S5B,S5M	4 Secure	Breeding				
																		Yellow Warbler	Setophaga petechia	S5B,S5M	4 Secure	Breeding				
																		Pine Warbler	Setophaga pinus	S5B,S5M	4 Secure	Breeding				
																		2	3	American Redstart	Setophaga ruticilla	S5B,S5M	4 Secure	Breeding		
																			Blackpoll Warbler	Setophaga striata	S3S4B,S5M	4 Secure	Breeding			
																			Cape May Warbler	Setophaga tigrina	S3B,S4S5M	4 Secure	Breeding			
																			2	2	Black-throated Green Warbler	Setophaga virens	S5B,S5M	4 Secure	Breeding	
																				Chipping Sparrow	Spizella passerina	S5B,S5M	4 Secure	Breeding		
																				American Tree Sparrow	Spizelloides arborea	S5N,S5M	4 Secure	Non		
				4	4		3	2	1	2	3	White-throated Sparrow	Zonotrichia albicollis							S5B,S5M	4 Secure	Breeding				
																				White-crowned Sparrow	Zonotrichia leucophrys	S4M	4 Secure	Transient		
																				Common Redpoll	Acanthis flammea	S5N,S5M	4 Secure	Non		
																				Evening Grosbeak	Coccothraustes vespertinus	SC	S3B,S3S4N,SUM	3 Sensitive	Breeding	
				1	1		1														Purple Finch	Haemorhous purpureus		S4S5B,SUN,S5M	4 Secure	Breeding



						Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
						White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
						Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
						Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
			1	1		American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
						House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic

TABLE 18 SPRING PC#2

6:25 AM	6:24 AM	8:18 AM	8:38 AM	6:23 AM	7:40 AM	6:52 AM							
2° C	0° C	3° C	3° C	2° C	5° C	4° C							
Wind: 1	Wind: 2-3	Wind: 1	Wind: 3-4	Wind: 0-1	Wind: 3-4	Wind: 1-2							
CC 70-80%	CC%	CC%	CC 90%	CC 30%	CC 65-70%	CC 10%							
Cloudy	Foggy	Fog, vis 10	Foggy, vis	Sun + Clou	Very light r	Blue Sky							
10-May	16-May	17-May	22-May	23-May	29-May	30-May	<b>CommonName</b>	<b>ScientificName</b>	<b>N::NPROT</b>	<b>SProt</b>	<b>SRank</b>	<b>Sgsrank</b>	<b>noteRank</b>
							Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
							Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
							Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
							Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
							Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
							Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
							American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
							Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
							Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
							Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
							Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
							Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
							Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
							Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
							Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
							Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
							Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
							Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
							Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
							Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
							American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
							Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
							Spruce Grouse	Falcpennis canadensis			S5	4 Secure	
							Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
							Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
							Virginia Rail	Rallius limicola			S3B,S3M	3 Sensitive	Breeding
							Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
							Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
							Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
							American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
							Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
							Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
							Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
							Herring Gull	Larus argentatus			S5	4 Secure	
							Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
							Iceland Gull	Larus glaucoideus			S4N,S4M	4 Secure	Non
							Great Black-backed Gull	Larus marinus			S5	4 Secure	
							Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
							Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
							Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
							Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
							Great Horned Owl	Bubo virginianus			S4	4 Secure	
							Barred Owl	Strix varia			S5	4 Secure	
							Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
							Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
							Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
							Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding
							Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
							Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
							Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
							Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
							Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
							Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
							Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
							Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
							American Crow	Corvus brachyrhynchos			S5	4 Secure	
							Common Raven	Corvus corax			S5	4 Secure	
							Blue Jay	Cyanocitta cristata			S5	4 Secure	
							Canada Jay	Perisoreus canadensis			S4	4 Secure	
							Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
							Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
							Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
							White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
							Brown Creeper	Certhia americana			S5	4 Secure	
							Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
							Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
							Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
							Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
							Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
							Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
							American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
							Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
							Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
							Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
							Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
							Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
							European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
							Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
							Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
							Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
							Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
							Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
							Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
							Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
							Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
							Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
							Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
							Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
							Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
							Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
							Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
							Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
							Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
							Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
							Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
							Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
							Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
							Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
							Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
							Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
							Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
							Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
							Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
							Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
							Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
							Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
							Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
							Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
							Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
							Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
							Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
							Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding

		1		1		1	Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
							Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
							Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
							Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
							American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
							Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
							Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
							Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
							Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
							American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
5		2	3	4	3	4	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
							White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
							Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
							Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
							Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
							Red Crossbill	Loxia curvirostra			S3	4 Secure	
							White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
							Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
							Pine Siskin	Spinus pinus			S3	4 Secure	
		1					American Goldfinch	Spinus tristis			S5	4 Secure	
							House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 19 SPRING PC#3

6:44 AM	7:08 AM	8:02 AM	7:50 AM	7:22 AM	7:22 AM	7:09 AM								
2° C	0° C	3° C	3° C	2° C	5° C	5° C								
Wind: 1	Wind: 1-2	Wind: 0-1	Wind: 3	Wind: 0-1	Wind: 1-2	Wind: 0-1								
CC 70-80%	CC%	CC%	CC 100%	CC 80%	CC 65-70%	CC 20%								
Cloudy	Light rain	Thick fog,	Foggy, vis	Clouding o	Light rain b	Sunny								
10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
							Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding	
							Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
							Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
							Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
							Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
							Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding	
							American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding	
				2			Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
							Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
							Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding	
							Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding	
							Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding	
							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
							Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
							Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
							Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
							Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
							Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
							Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
							Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
							Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
		1					American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
1	1	1	1	1	1	1	Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
							Spruce Grouse	Falcapennis canadensis			S5	4 Secure		
							Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
							Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
							Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
							Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
							Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
							Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
							American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
							Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
							Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding	
							Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
							Herring Gull	Larus argentatus			S5	4 Secure		
							Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
							Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non	
							Great Black-backed Gull	Larus marinus			S5	4 Secure		
							Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
							Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
		1					1 Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding	
							Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
							Great Horned Owl	Bubo virginianus			S4	4 Secure		
							Barred Owl	Strix varia			S5	4 Secure		
							Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	
							Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding	
							Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding	
							Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding	
	1	2					Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding	
							Downy Woodpecker	Dryobates pubescens			S5	4 Secure		
				1			Hairy Woodpecker	Dryobates villosus			S5	4 Secure		
							Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure		
							Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding	
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding	
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding	
							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding	
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding	
					1	1	Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding	
							Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding	
							Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding	

							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
	1					1	American Crow	Corvus brachyrhynchos			S5	4 Secure	
							Common Raven	Corvus corax			S5	4 Secure	
						1	Blue Jay	Cyanocitta cristata			S5	4 Secure	
						6	Canada Jay	Perisoreus canadensis			S4	4 Secure	
1	1				2	1	Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
							Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
						1	Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
							White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
							Brown Creeper	Certhia americana			S5	4 Secure	
						1	Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
							Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
						2	1 Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
							Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
1							Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
1							Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
1	1	1			3	2	2 American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
							Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
							Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
							Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
							Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
							Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
							European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
							Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
							Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
							Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
			1		1		Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
							Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
							Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
							Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
							Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
							Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
							Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
							Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
							Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
						2	2 Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
1	1	1	1			2	2 Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
							Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
						2	1 Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
1			1				Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
							Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
							Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
							Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
							Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
							Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
							Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
							Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
							Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
							Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
							Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
							Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
					1	1	1 Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
						1	1 Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
							Black-throated Blue Warbler	Setophaga caeruleus			S5B,S5M	4 Secure	Breeding
							Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
1							Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
							Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
						1	Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
2					1		Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
						2	2 Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
							Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
							Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
						1	2 American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
							Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
							Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding



				1	1	2	Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
	1						Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
							American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
5	2	4	4	3	3	3	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
							White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
							Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
							Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
	1						Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
							Red Crossbill	Loxia curvirostra			S3	4 Secure	
							White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
							Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
							Pine Siskin	Spinus pinus			S3	4 Secure	
			1				American Goldfinch	Spinus tristis			S5	4 Secure	
							House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
					1		Vireo Spp.	Vireonidae Spp.					

TABLE 20 SPRING PC#4

7:03 AM	7:25 AM	7:44 AM	7:33 AM	7:44 AM	6:52 AM	7:25 AM							
2° C	0° C	3° C	3° C	2° C	4° C	6° C							
Wind: 1	Wind: 1-2	Wind: 0	Wind: 3-4,	Wind: 1	Wind: 2	Wind: 1							
CC 70-80%	CC%	CC%	CC 100%	CC 50%	CC 70%	CC 30-40%							
Cloudy	Light rain	Thick fog	Foggy, vis	Sun + Clou	Cloudy	Sunny							
10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
							Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
							Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
							Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
							Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
							Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
							Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
							American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
							Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
							Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
							Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
							Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
							Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
							Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
							Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
							Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
							Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
							Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
							Bald Eagle	Haliaeetus leucocephalus	NAR	Endangere	S4	1 At Risk	
							Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
							Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
							American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
							Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
							Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
							Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
							Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
							Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
							Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
							Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
							Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
							American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
							Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
							Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
							Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
							Herring Gull	Larus argentatus			S5	4 Secure	
							Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
							Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
							Great Black-backed Gull	Larus marinus			S5	4 Secure	
							Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
							Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
		1					Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
							Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
							Great Horned Owl	Bubo virginianus			S4	4 Secure	
							Barred Owl	Strix varia			S5	4 Secure	
							Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
							Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
							Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
							Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
1		1		1		1	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
							Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
							Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
							Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
1						1	Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
							Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
						1	Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
							Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding

							Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
	2						American Crow	Corvus brachyrhynchos			S5	4 Secure	
					1		Common Raven	Corvus corax			S5	4 Secure	
						9	Blue Jay	Cyanocitta cristata			S5	4 Secure	
							Canada Jay	Perisoreus canadensis			S4	4 Secure	
							Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
							Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
							Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
							White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
							Brown Creeper	Certhia americana			S5	4 Secure	
							Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
							Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
					2	1	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
							Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
							Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
							Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
4		2	1		3	2	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
							Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
							Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
							Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
							Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
							Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
							European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
							Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
							Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
							Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
							Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
							Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
							Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
							Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
							Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
							Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
							Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
							Rusty Blackbird	Euphagus carolinus	SC	Special Co	S3B,S3M	2 May Be At Risk	Breeding
							Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
					3	2	Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
	1					2	1	Dark-eyed Junco	Junco hyemalis		S5	4 Secure	
							Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
					1		1	Lincoln's Sparrow	Melospiza lincolnii		S4B,S5M	4 Secure	Breeding
	2	1	1		2	2	2	Song Sparrow	Melospiza melodia		S5B,S5M	4 Secure	Breeding
							Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
							Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
							Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
					1	1	1	Nashville Warbler	Oreothlypis ruficapilla		S5B,S5M	4 Secure	Breeding
							Northern Waterthrush	Parus noveboracensis			S4B,S5M	4 Secure	Breeding
							Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
							Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
							Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
							Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
							Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
							Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
						1	1	Ovenbird	Seiurus aurocapilla		S5B,S5M	4 Secure	Breeding
							Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
							Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
							Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
		1			2	1	1	Yellow-rumped Warbler	Setophaga coronata		S5B,S5M	4 Secure	Breeding
							Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
							Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
		1					1	Palm Warbler	Setophaga palmarum		S5B,S5M	4 Secure	Breeding
								Chestnut-sided Warbler	Setophaga pensylvanica		S5B,S5M	4 Secure	Breeding
								Yellow Warbler	Setophaga petechia		S5B,S5M	4 Secure	Breeding
								Pine Warbler	Setophaga pinus		S5B,S5M	4 Secure	Breeding
								American Redstart	Setophaga ruticilla		S5B,S5M	4 Secure	Breeding

							Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
							Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
							Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
							Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
							American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
3	3	3	3	4	5	4	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
							White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
							Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
							Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
1				1			Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
							Red Crossbill	Loxia curvirostra			S3	4 Secure	
							White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
							Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
							Pine Siskin	Spinus pinus			S3	4 Secure	
2						2	American Goldfinch	Spinus tristis			S5	4 Secure	
							House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 21 SPRING PC#5

7:27 AM	7:43 AM	7:24 AM	7:15 AM	8:06 AM	6:32 AM	7:44 AM								
2° C	0° C	3° C	3° C	2° C	4° C	6° C								
Wind: 1	Wind: 1-2	Wind: 0	Wind: 3-4,	Wind: 0-1	Wind: 0-1	Wind: 0-1								
CC 70-80%	CC%	CC%	CC 100%	CC 60-70%	CC 60%	CC 80%								
Cloudy	Light rain	Thick fog	Foggy, vis	Overcast	Cloudy	Cloudy								
10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
							Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding	
							Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
							Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
							Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
							Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
							Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding	
							American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding	
2							Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
							Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
							Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding	
							Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding	
							Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding	
							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
							Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
							Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
							Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
							Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
							Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
							Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
							Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
							Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
						1	American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
							Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
							Spruce Grouse	Falcapennis canadensis			S5	4 Secure		
							Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
							Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
							Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
							Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
							Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
							Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
							American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
							Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
							Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding	
							Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
							Herring Gull	Larus argentatus			S5	4 Secure		
							Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
							Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non	
							Great Black-backed Gull	Larus marinus			S5	4 Secure		
							Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
							Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
			1				Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding	
							Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
							Great Horned Owl	Bubo virginianus			S4	4 Secure		
							Barred Owl	Strix varia			S5	4 Secure		
							Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	
							Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding	
					1		Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding	
						2	Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding	
		1	1	1	2		Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding	
1					1		Downy Woodpecker	Dryobates pubescens			S5	4 Secure		
		1					Hairy Woodpecker	Dryobates villosus			S5	4 Secure		
							Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure		
1	1	2	1		2	1	Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding	
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding	
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding	
							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding	
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding	
							Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding	
							Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding	
							Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding	



							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
				1	3	1	American Crow	Corvus brachyrhynchos			S5	4 Secure	
				2			Common Raven	Corvus corax			S5	4 Secure	
1				1		6	Blue Jay	Cyanocitta cristata			S5	4 Secure	
							Canada Jay	Perisoreus canadensis			S4	4 Secure	
		2	2	2			Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
							Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
		1				2	Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
							White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
							Brown Creeper	Certhia americana			S5	4 Secure	
						1	Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
							Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
		1	1			3	3 Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
							Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
		1					Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
							Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
3	2	5	1	3	1	1	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
							Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
							Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
							Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
							Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
							Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
							European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
							Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
							Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
							Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
1					1		Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
							Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
							Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
							Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
							Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
							Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
							Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
							Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
							Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
						2	1 Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
2	1					1	1 Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
							Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
							Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
1	2	1				1	1 Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
						1	1 Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
							Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
							Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
							Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
							Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
							Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
							Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
							Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
							Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
							Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
							Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
				2	2	2	Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
						1	1 Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
							Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
							Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
1							Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
							Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
						1	1 Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
		1					Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
							Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
							Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
							Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
				1	1		American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
							Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
							Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding

				1	1	1	Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
							Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
							American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
4	4	5	3	1	4	3	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
							White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
							Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
							Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
	1					1	Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
							Red Crossbill	Loxia curvirostra			S3	4 Secure	
							White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
							Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
							Pine Siskin	Spinus pinus			S3	4 Secure	
				2	4		American Goldfinch	Spinus tristis			S5	4 Secure	
							House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 22 SPRING PC#6

7:43 AM	8:06 AM	7:05 AM	6:44 AM	8:28 AM	6:11 AM	8:04 AM								
2° C	0° C	3° C	3° C	2° C	4° C	6° C								
Wind: 1	Wind: 1-2	Wind: 0-1	Wind: 3-4	Wind: 0-1	Wind: 1-2	Wind: 1								
CC 70-80%	CC 100%	CC%	CC%	CC 60%	CC%	CC 90%								
Cloudy	No precip.	Thick fog,	Foggy, vis	Overcast	Cloudy	Cloudy								
10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
							Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding	
							Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
							Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
							Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
							Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
							Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding	
							American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding	
		4					Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
							Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
							Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding	
							Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding	
							Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding	
							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
							Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
							Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
							Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
							Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
							Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
							Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
							Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
							Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
							American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
							Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
							Spruce Grouse	Falcapennis canadensis			S5	4 Secure		
							Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
							Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
							Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
							Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
							Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
							Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
							American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
							Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
							Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding	
							Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
							Herring Gull	Larus argentatus			S5	4 Secure		
							Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
							Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non	
							Great Black-backed Gull	Larus marinus			S5	4 Secure		
							Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
							Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
	1					2	Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding	
							Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
							Great Horned Owl	Bubo virginianus			S4	4 Secure		
							Barred Owl	Strix varia			S5	4 Secure		
							Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	
							Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding	
							Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding	
							Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding	
	1					2	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding	
							Downy Woodpecker	Dryobates pubescens			S5	4 Secure		
					1		Hairy Woodpecker	Dryobates villosus			S5	4 Secure		
					1	1	Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure		
			1				Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding	
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding	
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding	
							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding	
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding	
							Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding	
							Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding	
							Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding	

							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding		
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding		
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding		
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding		
	1						American Crow	Corvus brachyrhynchos			S5	4 Secure			
						1	Common Raven	Corvus corax			S5	4 Secure			
					3		Blue Jay	Cyanocitta cristata			S5	4 Secure			
							Canada Jay	Perisoreus canadensis			S4	4 Secure			
1					3	1	Black-capped Chickadee	Poecile atricapillus			S5	4 Secure			
						1	Boreal Chickadee	Poecile hudsonicus			S4	4 Secure			
1	1					1	Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure			
							White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure			
							Brown Creeper	Certhia americana			S5	4 Secure			
							Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding		
							Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding		
	2	2	1	2	1	2	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding		
							Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding		
							Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding		
	1						Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure			
5	1	3			1	2	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding		
							Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding		
							Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding		
							Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding		
							Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non		
							Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non		
							European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic		
							Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding		
							Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding		
							Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding		
					1	1	Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding		
							Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding		
							Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding		
							Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding		
							Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding		
							Northern Cardinal	Cardinalis cardinalis			S4	4 Secure			
							Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding		
							Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding		
							Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding		
					1	1	2	Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding	
1	1	2	1				Dark-eyed Junco	Junco hyemalis			S5	4 Secure			
							Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding		
							Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding		
		1			1		Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding		
						1	Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding		
							Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding		
							Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding		
							Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding		
							Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding		
							Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding		
							Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding		
							Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding		
							Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding		
							Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non		
							Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding		
					1	2	1	Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding	
							1	Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding	
								Black-throated Blue Warbler	Setophaga caeruleascens			S5B,S5M	4 Secure	Breeding	
							2	Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding	
1						1	1	Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding	
								Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding	
							2	1	Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
		1	1	1	1	1	1	Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding	
								Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding	
								Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding	
								Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding	
							1	American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding	
								Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding	
								Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding	

				2	1	1	Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
							Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
							American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
9	3	3	4	3	3		White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
							White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
							Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
							Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
							Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
							Red Crossbill	Loxia curvirostra			S3	4 Secure	
							White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
							Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
							Pine Siskin	Spinus pinus			S3	4 Secure	
	2		1		1		American Goldfinch	Spinus tristis			S5	4 Secure	
							House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic



TABLE 23 SPRING PC#7

8:01 AM	8:26 AM	6:44 AM	6:25 AM	8:52 AM	5:54 AM	8:30 AM								
2° C	0° C	3° C	3° C	2° C	4° C	8° C								
Wind: 1	Wind: 1	Wind: 0-1	Wind: 3-4	Wind: 1	Wind: 1	Wind: 1								
CC 70-80%	CC%	CC%	CC 100%	CC 40-50%	CC%	CC 60%								
Cloudy	Foggy	Thick fog,	Foggy, vis	Sun + Cloud	Cloudy	Cloudy								
10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
							Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding	
							Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
							Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
							Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
							Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
							Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding	
							American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding	
							Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
							Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
							Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding	
							Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding	
							Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding	
							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
							Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
							Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
							Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
							Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
							Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
							Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
							Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
							Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
				1			American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
							Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
							Spruce Grouse	Falciennis canadensis			S5	4 Secure		
							Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
							Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
							Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
							Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
							Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
							Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
							American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
							Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
							Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding	
							Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
							Herring Gull	Larus argentatus			S5	4 Secure		
							Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
							Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non	
							Great Black-backed Gull	Larus marinus			S5	4 Secure		
							Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
							Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
							Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding	
							Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
							Great Horned Owl	Bubo virginianus			S4	4 Secure		
							Barred Owl	Strix varia			S5	4 Secure		
							Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	
							Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding	
							Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding	
							Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding	
			1		1		Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding	
							Downy Woodpecker	Dryobates pubescens			S5	4 Secure		
							Hairy Woodpecker	Dryobates villosus			S5	4 Secure		
							Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure		
			1				Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding	
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding	
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding	
							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding	
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding	
							Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding	
							Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding	
							Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding	

							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
							American Crow	Corvus brachyrhynchos			S5	4 Secure	
							Common Raven	Corvus corax			S5	4 Secure	
							Blue Jay	Cyanocitta cristata			S5	4 Secure	
							Canada Jay	Perisoreus canadensis			S4	4 Secure	
						3	Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
							Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
			1	1			Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
							White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
							Brown Creeper	Certhia americana			S5	4 Secure	
							Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
							Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
1			1	1	2	2	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
							Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
1	1	2	1	1	1	2	Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
							Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
1	1			2	1	3	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
							Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
							Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
							Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
							Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
							Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
							European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
							Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
							Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
							Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
					1		Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
							Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
							Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
							Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
							Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
							Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
							Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
							Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
							Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
						2	Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
1	3	1	2	2	1		Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
							Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
							Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
							Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
				1	1		Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
							Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
							Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
							Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
							Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
							Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
							Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
							Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
							Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
							Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
							Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
					1		Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
							Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
							Black-throated Blue Warbler	Setophaga caeruleus			S5B,S5M	4 Secure	Breeding
							Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
2		4		2		1	Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
							Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
					1	1	Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
1						2	Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
							Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
							Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
							Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
							American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
							Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
							Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding

				1		1	Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
		2					Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
							American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
4	3	3	1	5	4	3	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
							White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
							Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
	1						Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
1	1		1		1		Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
							Red Crossbill	Loxia curvirostra			S3	4 Secure	
							White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
							Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
		8					Pine Siskin	Spinus pinus			S3	4 Secure	
1							American Goldfinch	Spinus tristis			S5	4 Secure	
							House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 24 SPRING PC#8

8:17 AM	8:41 AM	6:28 AM	6:10 AM	9:10 AM	5:40 AM	8:50 AM								
4-5° C	0° C	3° C	3° C	2° C	4° C	10° C								
Wind:1-2	Wind: 1	Wind: 0-1	Wind: 2	Wind: 0	Wind: 1	Wind: 0								
CC 40-50%	CC%	CC%	CC 100%	CC 30%	CC 70%	CC 60%								
Overcast	Foggy	Thick fog,	Foggy, vis	Sunny	Cloudy	Thin clouds								
10-May	16-May	17-May	22-May	23-May	29-May	30-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
							Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding	
							Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
							Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
							Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
							Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
							Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding	
							American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding	
							Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
							Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
							Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding	
							Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding	
							Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding	
							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
							Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
							Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
							Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
							Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
							Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
							Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
							Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
							Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
							American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
							Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
							Spruce Grouse	Falcapennis canadensis			S5	4 Secure		
							Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
							Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
							Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
							Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
							Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
							Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
							American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
							Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
							Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding	
							Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
							Herring Gull	Larus argentatus			S5	4 Secure		
							Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
							Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non	
							Great Black-backed Gull	Larus marinus			S5	4 Secure		
							Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
							Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
							Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding	
							Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
							Great Horned Owl	Bubo virginianus			S4	4 Secure		
							Barred Owl	Strix varia			S5	4 Secure		
							Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	
							Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding	
							Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding	
							Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding	
	3					1	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding	
							Downy Woodpecker	Dryobates pubescens			S5	4 Secure		
							Hairy Woodpecker	Dryobates villosus			S5	4 Secure		
							Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure		
	1					1	Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding	
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding	
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding	
							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding	
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding	
					1		Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding	
							Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding	
							Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding	



							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding					
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding					
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding					
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding					
1	1						American Crow	Corvus brachyrhynchos			S5	4 Secure						
							Common Raven	Corvus corax			S5	4 Secure						
			2		2		Blue Jay	Cyanocitta cristata			S5	4 Secure						
							Canada Jay	Perisoreus canadensis			S4	4 Secure						
						2	1	Black-capped Chickadee	Poecile atricapillus			S5	4 Secure					
								Boreal Chickadee	Poecile hudsonicus			S4	4 Secure					
								Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure					
								White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure					
								Brown Creeper	Certhia americana			S5	4 Secure					
								Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure Breeding					
								Veery	Catharus fuscescens			S4B,S4M	4 Secure Breeding					
		2	1	1	3	3	1	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure Breeding					
								Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure Breeding					
								Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure Breeding					
								Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure					
			1	1			2	American Robin	Turdus migratorius			S5B,S5M	4 Secure Breeding					
								Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure Breeding					
								Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive Breeding					
								Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure Breeding					
								Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure Non					
								Northern Shrike	Lanius borealis			S4N,S4M	4 Secure Non					
								European Starling	Sturnus vulgaris			SNA	7 Exotic Exotic					
								Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure Breeding					
								Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure Breeding					
								Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure Breeding					
								Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure Breeding					
								Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure Breeding					
								Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure Breeding					
								Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk Breeding					
								Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure Breeding					
								Northern Cardinal	Cardinalis cardinalis			S4	4 Secure					
								Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive Breeding					
								Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk Breeding					
								Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure Breeding					
								Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure Breeding					
		1			2	2	1	1	Dark-eyed Junco	Junco hyemalis			S5	4 Secure				
									Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure Breeding				
									Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure Breeding				
1									Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure Breeding				
									1	Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure Breeding			
										Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk Breeding			
										Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure Breeding			
										Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure Breeding			
										Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure Breeding			
										Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure Breeding			
										Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure Breeding			
										Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive Breeding			
										Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure Breeding			
										Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure Non			
			1							Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure Breeding			
					1	1	2	1		Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure Breeding			
										1	Northern Parula	Setophaga americana			S5B,S5M	4 Secure Breeding		
											Black-throated Blue Warbler	Setophaga caeruleus			S5B,S5M	4 Secure Breeding		
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure Breeding		
											1	Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure Breeding	
			1	1		2						Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure Breeding	
												Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure Breeding	
												1	Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure Breeding
													Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure Breeding
													Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure Breeding
													Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure Breeding
													American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure Breeding
													Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure Breeding
													Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure Breeding

					1	1	Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
							Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
							American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
2	3		1	2	1	3	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
							White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
							Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
2							Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
						1	Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
							Red Crossbill	Loxia curvirostra			S3	4 Secure	
							White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
							Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
							Pine Siskin	Spinus pinus			S3	4 Secure	
	1			2		2	American Goldfinch	Spinus tristis			S5	4 Secure	
							House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 25 SPRING PC#9

Time	6:44 AM	8:40 AM	8:18 AM	6:53 AM	8:26 AM	6:28 AM								
Temp	0° C	4° C	3° C	2° C	5° C	4° C								
Wind	Wind: 2-3	Wind: 1	Wind: 2- 3	Wind: 0-1	Wind: 1-2	Wind: 0-1								
CC%	CC%	CC%	CC 100%	CC 60%	CC 50%	CC 10%								
Conditions	Foggy	Fog lifting	Foggy, vis	Cloudy	Sun	Blue Sky								
	10-May	16-May	17-May	22-May	23-May	29-May	30-May	<b>CommonName</b>	<b>ScientificName</b>	<b>N::NPROT</b>	<b>SProt</b>	<b>SRank</b>	<b>Sgsrank</b>	<b>noteRank</b>
			1					Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
								Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
								Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
								Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
								Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
								Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
								American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
								Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
								Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
								Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
								Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
								Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
								Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
								Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
								Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
								Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
								Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
								Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
								Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
								Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
								Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
								American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
								Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
								Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
								Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
								Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
								Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
								Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
								Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
								Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
								American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
								Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
								Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
								Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
								Herring Gull	Larus argentatus			S5	4 Secure	
								Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
								Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
								Great Black-backed Gull	Larus marinus			S5	4 Secure	
								Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
								Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
								Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
								Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
								Great Horned Owl	Bubo virginianus			S4	4 Secure	
								Barred Owl	Strix varia			S5	4 Secure	
								Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
								Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
								Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
								Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
	3	1	1	2	2			Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
								Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
								Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
								Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
	2	1					1	Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
								Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
								Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
								Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
								Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
								Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
								Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
								Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding

							Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
							Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
							Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
							Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
	2		1			2	American Crow	Corvus brachyrhynchos			S5	4 Secure	
		1					Common Raven	Corvus corax			S5	4 Secure	
		1		1			Blue Jay	Cyanocitta cristata			S5	4 Secure	
							Canada Jay	Perisoreus canadensis			S4	4 Secure	
							Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
							Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
							Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
							White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
							Brown Creeper	Certhia americana			S5	4 Secure	
				1			Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
							Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
	3		2		3	2	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
							Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
							Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
							Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
	1			1	1		American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
							Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
							Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
							Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
							Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
							Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
							European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
							Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
							Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
							Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
	1	1	1				Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
							Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
							Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
							Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
							Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
							Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
							Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
							Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
							Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
					1	2	Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
				2		2	Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
							Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
					1		Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
							Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
					1		Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
							Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
							Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
					1		Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
							Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
							Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
							Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
		1					Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
							Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
							Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
							Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
			1	2	2	1	Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
							Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
							Black-throated Blue Warbler	Setophaga caeruleus			S5B,S5M	4 Secure	Breeding
							Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
						1	Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
							Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
				2	1	2	Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
						1	Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
					1	3	Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
							Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
							Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
					2		American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
							Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
							Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding



				1	1		Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
							Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
							American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
	1	4	1	1	3	4	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
							White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
							Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
							Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
							Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
							Red Crossbill	Loxia curvirostra			S3	4 Secure	
							White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
							Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
							Pine Siskin	Spinus pinus			S3	4 Secure	
						1	American Goldfinch	Spinus tristis			S5	4 Secure	
							House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 26 SPRING WC#1.1

9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM							
1° C	2° C	2° C	2° C	2° C	2° C	2° C	2° C	2° C	2° C	3° C	3° C							
Wind: 0-	Wind: 2-3 N	Wind: 2-3 N	Wind:	Wind: 2	Wind:	Wind: 2 N	Wind: 2 N	Wind: 2-3	Wind: 2	Wind: 2-3	Wind: 2-3							
CC 100%	CC 100%	CC 100%	CC 95%	CC 80%	CC 75%	CC 80%	CC 75%	CC 80%	CC 70%	CC 70%	CC 70%							
Foggy, vi	Clear to 1 k	Light rain	Precipitation, l	No precip. V	No precip.	No precip.	Light rain	No precip.	Light rain	No precip.	Light rain							
16-May	16-May	16-May	16-May	16-May	16-May	16-May	16-May	16-May	16-May	16-May	16-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
			Moved over ridge N to S about 200 m - T8>T9>T10									Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
									Soaring SW of T8			Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangere	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
		Foraging Treetop - T10 300m E										American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaida macroura			S5B,S5M,S	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
				Treetop T0 - E 150m								Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding

										Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
										Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
										Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
										Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
										Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
										Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
										Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
										Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
										Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
				Treetop T8				Heard Locally		American Crow	Corvus brachyrhynchos			S5	4 Secure	
										Common Raven	Corvus corax			S5	4 Secure	
	Calls S									Blue Jay	Cyanocitta cristata			S5	4 Secure	
										Canada Jay	Perisoreus canadensis			S4	4 Secure	
										Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
										Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
	Singing NW									Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
										White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
										Brown Creeper	Certhia americana			S5	4 Secure	
										Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
										Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
										Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
										Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
										Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
										Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
		Calls SE						Local - 1		American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
										Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
										Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
										Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
										Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
										Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
										European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
										Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
										Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
										Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
										Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
										Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
										Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
										Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
										Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
										Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
										Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
										Rusty Blackbird	Euphagus carolinus	SC	Special Cor	S3B,S3M	2 May Be A	Breeding
										Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
										Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
	Calls S									Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
										Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
										Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
										Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
										Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
										Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be A	Breeding
										Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
										Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
										Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
										Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
										Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
										Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
										Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
										Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
								Low flight near T9, between WC and Study Area		Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
										Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
										Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
										Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
										Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
	Singing S							Singing SE		Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
										Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
										Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
	Singing S									Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding

											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
	Singing W										White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra			S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	
									Local Movement - 3		American Goldfinch	Spinus tristis			S5	4 Secure	
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic



TABLE 27 SPRING WC#1.2

9:35 AM	10:05 AM	10:35 AM	11:05 AM	11:35 AM	12:05 PM	12:35 PM	1:05 PM	1:35 PM	2:05 PM	2:35 PM	3:05 PM							
4° C	4° C	4° C	4° C	4° C	4° C	4° C	4° C	4° C	4° C	5° C	5° C							
Wind: 1-2	Wind: 1-2,	Wind: 1, Gust	Wind: 1, Gusts	Wind: 1	Wind: 2	Wind: 1	Wind: 2-3	Wind: 2, Gus	Wind: 0-1, G	Wind: 1, G	Wind: 1-2, Gusts: 3							
CC 100%	CC 100%	CC 90%	CC 75%	CC 60%	CC 50%	CC 50%	CC 30%	CC 50%	CC 65%	CC 70%	CC 70%							
Fog lifting,	Fog over si	Some fog ove	Low ceiling, low	Sun	Sun + Clouds	Sun + Clou	Sunny	Sun + Clouds	Sun, clouding	Sun, cloudi	Sun + Clouds							
17-May	17-May	17-May	17-May	17-May	17-May	17-May	17-May	17-May	17-May	17-May	17-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
												Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
			Adult gaining altitude over T8, another over T9	Juvenile gaining altitude over T9							Soaring high E of T10	Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
	Heard S											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
Perched, hunting near T9	400 m E of T10, TT level	400 m E of T9, perched	400 m E of T9, perched still				300 m E of T9, perched female	300 m E of T9, perched female	300 m E of T9, perched female			American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falciennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaidura macroura			S5B,S5M,S	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megascops alcyon			S5B,S5M	4 Secure	Breeding
												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
		T9 - 200m E, TT level, local movement						Local movement at T9			Local movement >50m							
	Pik'											Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
												Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
												Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
												Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
												Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
			6 local at T9, 8 on treetops at T10, T9, T8	9 approaching T9 from W							3 flying low near T8/T9	American Crow	Corvus brachyrhynchos			S5	4 Secure	
	Heard											Common Raven	Corvus corax			S5	4 Secure	
	Heard		Local movement at T10								Local movement	Blue Jay	Cyanocitta cristata			S5	4 Secure	
												Canada Jay	Perisoreus canadensis			S4	4 Secure	
												Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
												Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	

- Incidentals**  
 White-throated Sparrow  
 American Robin  
 Dark-eyed Junco - on s  
 Palm Warbler - singing  
 Hermit Thrush  
 Northern Flicker  
 Yellow-rumped Warbler  
 Yellow-bellied Sapsucker  
 Red-breasted Nuthatch  
 Blue Jay  
 Black-capped Chickadee



TABLE 28 SPRING WC#1.3

9:15 AM	9:45 AM	10:15 AM	10:45 AM	11:15 AM	11:45 AM	12:15 PM	12:45 PM	1:15 PM	1:45 PM	2:15 PM	2:45 PM								
3° C	3° C	3° C	3° C	3° C	3° C	3° C	3° C	3° C	3° C	3° C	3° C								
Wind: 3-4- CC 100%	Wind: 3-4- CC 100%	Wind: 3-4 N CC 90%	Wind: 3-4 N CC 90%	Wind: 3-4 CC%	Wind: 4-5 NE CC%	Wind: 3-4-5 CC%	Wind: 3-4 CC 70%	Wind: 3-4 CC 60%	Wind: 3-4 CC 70%	Wind: 3-4 CC 70%	Wind: 3-4-5 E CC 80%								
Clearing, fog	Fog, vis 1 k	Foggy, 3-4 k	No rain, low han	Low clouds	Foggy, low ha	Clearing, sur	Sun + Clou	Sun + Clou	Sun + Clou	Sun + Clou	Clear, gusty								
22-May	22-May	22-May	22-May	22-May	22-May	22-May	22-May	22-May	22-May	22-May	22-May								
												CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
													Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
													Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
													Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
													Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
													Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
													Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
													American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
													Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
													Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
													Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
													Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
													Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
												2 400m SW of T10 at <150m, gaining alt.	Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
													Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
													Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
													Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
													Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
													Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
													Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
			T10 500m E at 100m										Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
													Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
													American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
													Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
													Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
													Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
													Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
													Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
													Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
													Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
													Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
													American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
													Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
													Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
													Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
													Herring Gull	Larus argentatus			S5	4 Secure	
													Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
													Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
			5 flying T9/T10 300m SE at <300m, looking to land										Great Black-backed Gull	Larus marinus			S5	4 Secure	
													Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
													Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
													Mourning Dove	Zenaida macroura			S5B,S5M,S	4 Secure	Breeding
													Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
													Great Horned Owl	Bubo virginianus			S4	4 Secure	
													Barred Owl	Strix varia			S5	4 Secure	
													Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
													Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
													Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
													Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
													Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
													Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
													Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
													Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
													Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
													Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
													Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
													Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
													Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
													Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
													Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
													Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
													Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
													Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
													Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
													Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
													Swallow Species						

- Incidentals**  
 White-throated Sparrow  
 American Robin  
 Dark-eyed Junco  
 Palm Warbler  
 Hermit Thrush  
 Song Sparrow  
 Northern Flicker  
 Yellow-rumped Warbler  
 American Goldfinch  
 Yellow-bellied Sapsucker  
 Chimney Swift  
 Ovenbird

Red-breasted Nuthatch



		T8 at <50m	T10 400SW at <50m	T9 at <50m and T10 400 m SE at <100m	T9 at <50m			4 300m E of T8 at <50m			American Crow	Corvus brachyrhynchos			S5	4 Secure	
								T8 300m E at <50m			Common Raven	Corvus corax			S5	4 Secure	
											Blue Jay	Cyanocitta cristata			S5	4 Secure	
											Canada Jay	Perisoreus canadensis			S4	4 Secure	
											Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
											Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
											Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
											Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
											Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
											American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
											Cedar Waxwing	Bombcilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombcilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
											Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Cor	S3B,S3M	2 May Be A	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
											Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
											Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
											Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be A	Breeding
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
											Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
											Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
											White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra			S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	
											American Goldfinch	Spinus tristis			S5	4 Secure	
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic



TABLE 29 SPRING WC#1.4

9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM								
2° C	2° C	2° C	2° C	2° C	2° C	2° C	2° C	2° C	2° C	2° C	2° C								
Wind: 1-2	Wind: 1-2 W	Wind: 0-1	Wind: 1-2	Wind: 2	Wind: 2	Wind: 2	Wind:	Wind: 2	Wind: 2-3	Wind: 1 W	Wind: 2-3 NW								
CC 30%	CC 30%	CC 50%	CC 50%	CC 20%	CC 50%	CC 70%	CC 60%	CC 60%	CC%	CC 40%	CC 50%								
Clear + sunny	clear + sunny	sun + cloud	sun + cloud	Sun + clouds	Sun + cloud	Sun + cloud	Sun + Clouds	Sun + Clou	Sun + Clou	Sun + Clou	Sunny								
<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>23-May</b>	<b>CommonName</b>	<b>ScientificName</b>	<b>N::NPROT</b>	<b>SProt</b>	<b>SRank</b>	<b>Sgsrank</b>	<b>noteRank</b>
													Common Loon	Gavia immer	NAR		S4B,S4M,S4	4 Secure	Breeding
													Double-crested Cormora	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
													Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
													Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
													Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
													Mallard	Anas platyrhynchos			S5B,S4N,S4	4 Secure	Breeding
													American Black Duck	Anas rubripes			S5B,S4N,S4	4 Secure	Breeding
													Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
													Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
													Common Merganser	Mergus merganser			S5B,S4N,S4	4 Secure	Breeding
													Red-breasted Merganser	Mergus serrator			S3B,S5M,S4	4 Secure	Breeding
													Common Eider	Somateria mollissima			S3B,S4M,S4	4 Secure	Breeding
													Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
													Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
													Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
	Adult gaining altitude at T9												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
													Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
													Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
	Adult Female 300m E of T9												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
	Adult gaining altitude T10-T9												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
													Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
													American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
Perched 400m E of T10	Perched 400m E of T10 9 (same)												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
													Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
													Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
													Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
													Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
													Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
													Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
													Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
													American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
													Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
													Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
													Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
													Herring Gull	Larus argentatus			S5	4 Secure	
													Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
													Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
													Great Black-backed Gull	Larus marinus			S5	4 Secure	
													Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
													Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
													Mourning Dove	Zenaida macroura			S5B,S5M,S4	4 Secure	Breeding
													Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
													Great Horned Owl	Bubo virginianus			S4	4 Secure	
													Barred Owl	Strix varia			S5	4 Secure	
													Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
													Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
													Ruby-throated Humming	Archilochus colubris			S5B,S5M	4 Secure	Breeding
													Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
													Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
													Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
													Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
													Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
													Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
													Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
													Eastern Wood-Pewee	Contopus virens	SC	Special Col	S4B,S4M	4 Secure	Breeding
													Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
													Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
													Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
													Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
													Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
													Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
													Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
													Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
													Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding

- Incidentals**  
 Northern Flicker  
 Yellow-rumped Warble  
 Yellow-bellied Sapsuc  
 American Robin  
 American Goldfinch  
 Song Sparrow  
 Lincoln's Sparrow  
 Ovenbird  
 Black-throated Green  
 Blue-headed Vireo  
 Dark-eyed Junco  
 Red-breasted Nuthatc  
 Downy Woodpecker  
 Black-capped Chickad  
 Purple Finch  
 Winter Wren  
 Palm Warbler  
 Blue Jay  
 Ruby-throated Humm  
 Northern Parula

4 300m S of T10 at <100m				2 E of T8						Swallow Species									
										American Crow	Corvus brachyrhynchos				S5	4 Secure			
										Common Raven	Corvus corax				S5	4 Secure			
										Blue Jay	Cyanocitta cristata				S5	4 Secure			
									200m E of T9-T8	Canada Jay	Perisoreus canadensis				S4	4 Secure			
										Black-capped Chickadee	Poecile atricapillus				S5	4 Secure			
										Boreal Chickadee	Poecile hudsonicus				S4	4 Secure			
										Red-breasted Nuthatch	Sitta canadensis				S5	4 Secure			
										White-breasted Nuthatch	Sitta carolinensis				S4	4 Secure			
										Brown Creeper	Certhia americana				S5	4 Secure			
										Winter Wren	Troglodytes hiemalis				S5B,S5M	4 Secure	Breeding		
										Veery	Catharus fuscescens				S4B,S4M	4 Secure	Breeding		
										Hermit Thrush	Catharus guttatus				S5B,S5M	4 Secure	Breeding		
										Swainson's Thrush	Catharus ustulatus				S5B,S5M	4 Secure	Breeding		
										Ruby-crowned Kinglet	Regulus calendula				S4B,S5M	4 Secure	Breeding		
										Golden-crowned Kinglet	Regulus satrapa				S5	4 Secure			
										American Robin	Turdus migratorius				S5B,S5M	4 Secure	Breeding		
										Gray Catbird	Dumetella carolinensis				S4B,S4M	4 Secure	Breeding		
										Northern Mockingbird	Mimus polyglottos				S2B,S2M	3 Sensitive	Breeding		
										Cedar Waxwing	Bombycilla cedrorum				S5B,S5M	4 Secure	Breeding		
										Bohemian Waxwing	Bombycilla garrulus				S5N,S5M	4 Secure	Non		
										Northern Shrike	Lanius borealis				S4N,S4M	4 Secure	Non		
										European Starling	Sturnus vulgaris				SNA	7 Exotic	Exotic		
										Warbling Vireo	Vireo gilvus				S3B,S3M	4 Secure	Breeding		
										Red-eyed Vireo	Vireo olivaceus				S5B,S5M	4 Secure	Breeding		
										Philadelphia Vireo	Vireo philadelphicus				S5B,S5M	4 Secure	Breeding		
										Blue-headed Vireo	Vireo solitarius				S5B,S5M	4 Secure	Breeding		
										Red-winged Blackbird	Agelaius phoeniceus				S4B,S4M	4 Secure	Breeding		
										Nelson's Sparrow	Ammodramus nelsoni	NAR			S4B,S4M	4 Secure	Breeding		
										Canada Warbler	Cardellina canadensis	T	Threatened		S3B,S3M	1 At Risk	Breeding		
										Wilson's Warbler	Cardellina pusilla				S4B,S5M	4 Secure	Breeding		
										Northern Cardinal	Cardinalis cardinalis				S4	4 Secure			
										Bobolink	Dolichonyx oryzivorus	T	Threatened		S3B,S3M	3 Sensitive	Breeding		
										Rusty Blackbird	Euphagus carolinus	SC	Special Cor		S3B,S3M	2 May Be A	Breeding		
										Mourning Warbler	Geothlypis philadelphia				S4B,S5M	4 Secure	Breeding		
										Common Yellowthroat	Geothlypis trichas				S5B,S5M	4 Secure	Breeding		
										Dark-eyed Junco	Junco hyemalis				S5	4 Secure			
										Swamp Sparrow	Melospiza georgiana				S5B,S5M	4 Secure	Breeding		
										Lincoln's Sparrow	Melospiza lincolni				S4B,S5M	4 Secure	Breeding		
										Song Sparrow	Melospiza melodia				S5B,S5M	4 Secure	Breeding		
										Black-and-White Warbler	Mniotilta varia				S5B,S5M	4 Secure	Breeding		
										Brown-headed Cowbird	Molothrus ater				S3B,S3M	2 May Be A	Breeding		
										Tennessee Warbler	Oreothlypis peregrina				S4B,S5M	4 Secure	Breeding		
										Nashville Warbler	Oreothlypis ruficapilla				S5B,S5M	4 Secure	Breeding		
										Northern Waterthrush	Parkesia noveboracensis				S4B,S5M	4 Secure	Breeding		
										Savannah Sparrow	Passerculus sandwichensis				S4S5B,S5M	4 Secure	Breeding		
										Fox Sparrow	Passerella iliaca				S4B,S5M	4 Secure	Breeding		
										Rose-breasted Grosbeak	Pheucticus ludovicianus				S4B,S4M	3 Sensitive	Breeding		
										Scarlet Tanager	Piranga olivacea				S3B,S3M	4 Secure	Breeding		
										Snow Bunting	Plectrophenax nivalis				S5N,S5M	4 Secure	Non		
										Common Grackle	Quiscalus quiscula				S5B,S5M	4 Secure	Breeding		
										Ovenbird	Seiurus aurocapilla				S5B,S5M	4 Secure	Breeding		
										Northern Parula	Setophaga americana				S5B,S5M	4 Secure	Breeding		
										Black-throated Blue Warbler	Setophaga caerulescens				S5B,S5M	4 Secure	Breeding		
										Bay-breasted Warbler	Setophaga castanea				S4B,S4S5M	4 Secure	Breeding		
										Yellow-rumped Warbler	Setophaga coronata				S5B,S5M	4 Secure	Breeding		
										Blackburnian Warbler	Setophaga fusca				S5B,S5M	4 Secure	Breeding		
										Magnolia Warbler	Setophaga magnolia				S5B,S5M	4 Secure	Breeding		
										Palm Warbler	Setophaga palmarum				S5B,S5M	4 Secure	Breeding		
										Chestnut-sided Warbler	Setophaga pensylvanica				S5B,S5M	4 Secure	Breeding		
										Yellow Warbler	Setophaga petechia				S5B,S5M	4 Secure	Breeding		
										Pine Warbler	Setophaga pinus				S5B,S5M	4 Secure	Breeding		
										American Redstart	Setophaga ruticilla				S5B,S5M	4 Secure	Breeding		
										Blackpoll Warbler	Setophaga striata				S3S4B,S5M	4 Secure	Breeding		
										Cape May Warbler	Setophaga tigrina				S3B,S4S5M	4 Secure	Breeding		
										Black-throated Green Warbler	Setophaga virens				S5B,S5M	4 Secure	Breeding		
										Chipping Sparrow	Spizella passerina				S5B,S5M	4 Secure	Breeding		
										American Tree Sparrow	Spizelloides arborea				S5N,S5M	4 Secure	Non		
										White-throated Sparrow	Zonotrichia albicollis				S5B,S5M	4 Secure	Breeding		
										White-crowned Sparrow	Zonotrichia leucophrys				S4M	4 Secure	Transient		
										Common Redpoll	Acanthis flammea				S5N,S5M	4 Secure	Non		
										Evening Grosbeak	Coccothraustes vespertinus	SC			S3B,S3S4N	3 Sensitive	Breeding		
										Purple Finch	Haemorhous purpureus				S4S5B,SUN	4 Secure	Breeding		
										Red Crossbill	Loxia curvirostra				S3	4 Secure			
										White-winged Crossbill	Loxia leucoptera				S5	4 Secure			
										Pine Grosbeak	Pinicola enucleator				S2B,S4S5M	3 Sensitive	Breeding		
										Pine Siskin	Spinus pinus				S3	4 Secure			
										American Goldfinch	Spinus tristis				S5	4 Secure			



TABLE 30 SPRING WC#2.1

9:15 AM	9:45 AM	10:15 AM	10:45 AM	11:15 AM	11:45 AM	12:15 PM	12:45 PM	1:15 PM	1:45 PM	2:15 PM	2:45 PM							
5° C	8° C	8° C	8° C	8° C	8° C	8° C	8° C	10° C	10° C	10° C	10° C							
Wind: 1-2	Wind: 2-3 W	Wind: 2-3 SW	Wind: 2-4	Wind: 3-4 SE	Wind: 2-3 SE	Wind: 2-3	Wind: 2-3	Wind: 1	Wind: 1-2	Wind: 1	Wind: 0-1 SE							
CC 70%	CC 70%	CC 70%	CC 50%	CC%	CC%	CC%	CC%	CC 40%	CC 40%	CC 60%	CC 70%							
Cloudy	Clearing	Sun + Cloud	Sunny	Sun		Sun		Sunny	Sun + Cloud	Sun + Cloud	Sun + Cloud							
23-May	23-May	23-May	23-May	23-May	23-May	23-May	23-May	23-May	23-May	23-May	23-May	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S4	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S4	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S4	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S4	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S4	4 Secure	Breeding
		Moving N at >150m, started E of T10, past T9 & T8										Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
					Over WC site at 100-150m													
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
				Gained alt. W of T9 >150m	Gained alt. W of T10/T9 >150m													
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falciptennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breed
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaidura macroura			S5B,S5M,S4	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding
												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
												Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
												Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
												Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
												Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding



											NW of T10	2 over WC area	American Crow	Corvus brachyrhynchos			S5	4 Secure	
	Local movement W of T9										N of T8		Common Raven	Corvus corax			S5	4 Secure	
	Local movement	Local movement										5 local movement	Blue Jay	Cyanocitta cristata			S5	4 Secure	
													Canada Jay	Perisoreus canadensis			S4	4 Secure	
													Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
													Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
													Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
													White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
													Brown Creeper	Certhia americana			S5	4 Secure	
													Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
													Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
													Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
													Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
													Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
													Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
												1 Local movement	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
													Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
													Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
													Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
													Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
													Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
													European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
													Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
													Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
													Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
													Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
													Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
													Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
													Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
													Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
													Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
													Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
													Rusty Blackbird	Euphagus carolinus	SC	Special Con	S3B,S3M	2 May Be A	Breeding
													Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
													Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
													Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
													Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
													Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
													Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
													Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
													Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be A	Breeding
													Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
													Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
													Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
													Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
													Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
													Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
													Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
													Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
													Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
													Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
													Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
													Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
													Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
													Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
													Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
													Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
													Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
													Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
													Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
													Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
													American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
													Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
													Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
													Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
													Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
													American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
													White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
													White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
													Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
													Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N	3 Sensitive	Breeding
													Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
													Red Crossbill	Loxia curvirostra			S3	4 Secure	
													White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
													Pine Grosbeak	Pinicola enucleator			S2B,S4S5M	3 Sensitive	Breeding
													Pine Siskin	Spinus pinus			S3	4 Secure	
													American Goldfinch	Spinus tristis			S5	4 Secure	
													House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 31 SPRING WC#2.2

9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00PM	2:30 PM	3:00 PM							
9° C	10° C	10° C	10° C	10° C	10° C	10° C	10° C	10° C	9° C	9° C	8° C							
Wind: 1 SW	Wind: 1	Wind: 1	Wind: 1-2,	Wind: 2-3	Wind: 1-2	Wind: 2-3	Wind: 1-2	Wind: 1-2	Wind: 1-3 W	Wind: 0-1 SE	Wind: 2-3 W							
CC 90-100	CC 80%	CC 80%	CC 70%	CC 90%	CC 80%	CC 90%	CC 80%	CC 80%	CC 70%	CC 70%	CC 80%							
Overcast	Overcast	Overcast	Cloudy	Overcast, r	Cloudy, mist	Cloudy	Cloudy	Cloudy	Sun + Cloud	Sun + Cloud	Cloudy							
<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>30-May</b>	<b>CommonName</b>	<b>ScientificName</b>	<b>N::NPROT</b>	<b>SProt</b>	<b>SRank</b>	<b>Sgsrank</b>	<b>noteRank</b>
												Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Anas sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
						W of T8 at >150m					S of T10 at 50-150m	Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						50-150m of WC site						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
					Gaining alt. SW of T10, moving N, W of T9 & T8						Flying N to S 50-150m over WC	Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breed
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaida macroura			S5B,S5M,S	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
	Over WC#2			Over WC								Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
												Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
												Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
												Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
												Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
					W of T8							American Crow	Corvus brachyrhynchos			S5	4 Secure	

											Common Raven	Corvus corax			S5	4 Secure	
						TT level W of T9		Flying S to N, T10 to T8	SW of T10 (interaction with Buteo Spp.)		Blue Jay	Cyanocitta cristata			S5	4 Secure	
			26 W-E of T8 at 50-150 m	16 flew over WC from S to N at <50m							Canada Jay	Perisoreus canadensis			S4	4 Secure	
											Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
											Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
											Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
											Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
											Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
						W of T9 , TT local movement					American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
											Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
											Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Cor	S3B,S3M	2 May Be A	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
											Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
											Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
											Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be A	Breeding
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
											Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
											Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
											White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding

													Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
													White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
													Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N	3 Sensitive	Breeding
													Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
													American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
													House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic
											SW of T10 (interaction with CORA)		Bueto Spp.						



**TABLE 32 SPRING OWL COUNT #1**

<b>Beginning Conditions</b>				
Local Sunset	8:38 PM			
Temperature	8°C			
Wind	1			
CC%	10%			
Precipitation	None			
<b>9:35 PM</b>		<b>10:07 PM</b>		<b>10:32 AM</b>
Study #1		Study #2		10° C
Noise: 0-1		Noise: 0-1		Noise: 1
GHOW - Moving NW, 300m				GHOW - Moving N, 500-600m
<b>End Conditions</b>				
Temperature	2°C			
Wind	1			
CC%	10%			
Precipitation	None			

Other Speices:

AMWO

WTSP

**TABLE 33 SPRING OWL COUNT #2**

<b>Beginning Conditions</b>				
Local Sunset	8:44 PM			
Temperature	7°C			
Wind	1			
CC%	0-25%			
Precipitation	None			
<b>9:20 PM</b>		<b>9:55 PM</b>		<b>10:29 PM</b>
Study #1		Study #2		Study #3
Noise: 1		Noise: 1-2		Noise: 1-2
<b>End Conditions</b>				
Temperature	5°C			
Wind	1			
CC%	0-25%			
Precipitation	None			

Other Species:  
 WHSP  
 Finches?  
 AMWO

TABLE 35 SUMMER PC#1

5:41 AM	5:25 AM	8:15 AM	Time	6:26 AM	5:10 AM							
5°C	8°C	10°C	Temp	Julie's Solo	8°C							
Wind 0	Wind: 2	Wind: 1-2M	Wind		Wind: 1							
CC 0%	CC 40%	CC 0%	CC%		CC 15%							
Conditions	Thin cloud	Sunny	Conditions		Conditions							
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
3						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
						American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
						Spruce Grouse	Falciptennis canadensis			S5	4 Secure	
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
						Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
						American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
						Herring Gull	Larus argentatus			S5	4 Secure	
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
						Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
						Great Black-backed Gull	Larus marinus			S5	4 Secure	
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
1						Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
						Great Horned Owl	Bubo virginianus			S4	4 Secure	
						Barred Owl	Strix varia			S5	4 Secure	
						1 Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
	1					Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
						Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
1	1	1				1 Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
						Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
						Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
						3 Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
						Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
						Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
4	2	2		1	2	Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
						Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
						Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
						Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
						Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
						Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
						Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding

					Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
					Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
	1	1			American Crow	Corvus brachyrhynchos			S5	4 Secure	
					Common Raven	Corvus corax			S5	4 Secure	
					Blue Jay	Cyanocitta cristata			S5	4 Secure	
					Canada Jay	Perisoreus canadensis			S4	4 Secure	
					Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
					Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
	1	1			Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
					White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
					Brown Creeper	Certhia americana			S5	4 Secure	
					Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
					Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
5	2	2			4 Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
1	3	1		1	2 Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
					Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
					Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
					1 American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
					Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
					Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
					Cedar Waxwing	Bombcilla cedrorum			S5B,S5M	4 Secure	Breeding
					Bohemian Waxwing	Bombcilla garrulus			S5N,S5M	4 Secure	Non
					Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
					European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
					Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
				1	1 Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
					Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
	1	1			Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
					Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
					Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
					Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
					Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
					Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
					Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
					Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
					Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
	1	1			2 Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
					Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
					Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
					Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
					Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
	1	1		1	1 Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
					Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
					Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
1					Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
					Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
					Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
					Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
					Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
					Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
					Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
					Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
3	4	2			2 Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
1				1	Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
1					Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
					Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
					Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
					Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
					Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
					Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
1	1	1		1	1 Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
					Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
					Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
1	2			1	2 American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
					Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
					Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
1				1	Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
					Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
					American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
2	2	2		3	3 White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding



					White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
					Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
					Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
					Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
					Red Crossbill	Loxia curvirostra			S3	4 Secure	
					White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
					Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
					Pine Siskin	Spinus pinus			S3	4 Secure	
					American Goldfinch	Spinus tristis			S5	4 Secure	
				1	House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 36 SUMMER PC#2

6:08 AM	5:45 AM	7:13 AM	Time	7:23 AM	5:38 AM							
5°C	8°C	8°C	8°C	Julie's Solo V	8°C							
Wind: 0-1	Wind: 2-3,	Wind: 2-3	Wind		Wind: 1-2							
CC%	CC 50%	CC 0%	CC%		CC 10%							
Conditions	Thin cloud	Sunny	Conditions		Conditions							
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
						American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
						Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
						Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
		1			1	American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breed
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
						Herring Gull	Larus argentatus			S5	4 Secure	
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
						Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
						Great Black-backed Gull	Larus marinus			S5	4 Secure	
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
						Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
						Great Horned Owl	Bubo virginianus			S4	4 Secure	
						Barred Owl	Strix varia			S5	4 Secure	
						Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
						Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
						Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding
						Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
						Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
						Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
						Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
						Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
						Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
4	3	3		1	2	Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
						Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
						Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
						Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
						Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding

					Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
					Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
					Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
					Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
2					American Crow	Corvus brachyrhynchos			S5	4 Secure	
					Common Raven	Corvus corax			S5	4 Secure	
					Blue Jay	Cyanocitta cristata			S5	4 Secure	
					Canada Jay	Perisoreus canadensis			S4	4 Secure	
					Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
					Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
					Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
					White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
					Brown Creeper	Certhia americana			S5	4 Secure	
					Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
					Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
1		1		2	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
					Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
					Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
					Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
1					American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
					Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
					Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
					Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
					Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
					Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
					European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
					Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
					Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
					Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
		1			Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
					Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
					Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
					Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
					Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
					Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
					Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
					Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
					Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
				2	Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
2		1		2	1	Dark-eyed Junco	Junco hyemalis		S5	4 Secure	
					Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
1		1			Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
2		1	2	1	2	Song Sparrow	Melospiza melodia		S5B,S5M	4 Secure	Breeding
					Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
					Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
					Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
					Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
					Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
					Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
					Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
					Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
					Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
					Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
					Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
					Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
					Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
					Black-throated Blue Warbler	Setophaga caerulea			S5B,S5M	4 Secure	Breeding
					Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
					Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
					Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
1				1	1	Magnolia Warbler	Setophaga magnolia		S5B,S5M	4 Secure	Breeding
1		1		1	1	Palm Warbler	Setophaga palmarum		S5B,S5M	4 Secure	Breeding
				1		Chestnut-sided Warbler	Setophaga pensylvanica		S5B,S5M	4 Secure	Breeding
						Yellow Warbler	Setophaga petechia		S5B,S5M	4 Secure	Breeding
						Pine Warbler	Setophaga pinus		S5B,S5M	4 Secure	Breeding
2		1				American Redstart	Setophaga ruticilla		S5B,S5M	4 Secure	Breeding
						Blackpoll Warbler	Setophaga striata		S3S4B,S5M	4 Secure	Breeding
						Cape May Warbler	Setophaga tigrina		S3B,S4S5M	4 Secure	Breeding

						Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
						Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
						American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
3	4	2		2	3	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
						White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
						Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
						Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
						Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
						Red Crossbill	Loxia curvirostra			S3	4 Secure	
						White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
						Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
						Pine Siskin	Spinus pinus			S3	4 Secure	
						American Goldfinch	Spinus tristis			S5	4 Secure	
						House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic



TABLE 37 SUMMER PC#3

6:59 AM	6:34 AM	6:55 AM	Time	7:43 AM	6:26 AM							
	10°C	7°C	8°C	Julie's Solo	8°C							
Wind: 0-1	Wind: 3 S,	Wind: 2-3	Wind		Wind: 0-1							
CC 10%	CC 30%	CC 0%	CC%		CC 0%							
Clear	Clearing, S	Sunny	Conditions		Conditions							
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
						American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
						Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
						Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
						American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breed
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
						Herring Gull	Larus argentatus			S5	4 Secure	
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
						Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
						Great Black-backed Gull	Larus marinus			S5	4 Secure	
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
						Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
						Great Horned Owl	Bubo virginianus			S4	4 Secure	
						Barred Owl	Strix varia			S5	4 Secure	
						Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
						Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
						Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
1	1	1		3	4	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
						Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
						Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
						1 Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
	Playback	Playback				Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
						Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
2	2	1				3 Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
						Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
						1 Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
						Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding

						Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
						Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
						Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
						Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
						Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
			1			American Crow	Corvus brachyrhynchos			S5	4 Secure	
						Common Raven	Corvus corax			S5	4 Secure	
1		1				Blue Jay	Cyanocitta cristata			S5	4 Secure	
						Canada Jay	Perisoreus canadensis			S4	4 Secure	
						Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
						Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
						Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
			2			White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
						Brown Creeper	Certhia americana			S5	4 Secure	
1						Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
						Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
2					3	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
					1	Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
						Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
						Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
1			1		2	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
						Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
						Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
					1	Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
						Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
						Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
						European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
						Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
					1	Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
						Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
						Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
						Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
						Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
						Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
						Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
						Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
						Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
						Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
						Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
			1		1	Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
		1		2	2	Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
						Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
						Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
						Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
						Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
						Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
						Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
		1		2		Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
						Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
						Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
						Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
						Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
						Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
						Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
						Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
2					1	Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
1						Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
						Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
						Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
2						Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
						Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
1			1		2	Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
					1	Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
						Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
						Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
						Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
2					1	American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding

						Blackpoll Warbler	<i>Setophaga striata</i>			S3S4B,S5M	4 Secure	Breeding
						Cape May Warbler	<i>Setophaga tigrina</i>			S3B,S4S5M	4 Secure	Breeding
						Black-throated Green Warbler	<i>Setophaga virens</i>			S5B,S5M	4 Secure	Breeding
						Chipping Sparrow	<i>Spizella passerina</i>			S5B,S5M	4 Secure	Breeding
						American Tree Sparrow	<i>Spizelloides arborea</i>			S5N,S5M	4 Secure	Non
2	3	3		1	4	White-throated Sparrow	<i>Zonotrichia albicollis</i>			S5B,S5M	4 Secure	Breeding
						White-crowned Sparrow	<i>Zonotrichia leucophrys</i>			S4M	4 Secure	Transient
						Common Redpoll	<i>Acanthis flammea</i>			S5N,S5M	4 Secure	Non
						Evening Grosbeak	<i>Coccothraustes vespertinus</i>	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
1						Purple Finch	<i>Haemorhous purpureus</i>			S4S5B,SUN,S5M	4 Secure	Breeding
						Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
					1	White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
						Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
						Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
		1				American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
						House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic

TABLE 38 SUMMER PC#4

7:18 AM	6:51 AM	6:39 AM	Time	7:59 AM	6:42 AM							
Wind: 1	11°C	7°C	10°C	Julie's Solo	10°C							
CC 0%	Wind: 3, G	Wind: 2-3	Wind		Wind: 1							
Sunny	CC 20%	CC 0%	CC%		CC 0%							
Sunny	Sunny	Sunny	Conditions		Sunny							
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
					1	American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
						Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
						Spotted Sandpiper	Actitis macularia			S3S4B,S5M	4 Secure	Breeding
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
						American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
						Herring Gull	Larus argentatus			S5	4 Secure	
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
						Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
						Great Black-backed Gull	Larus marinus			S5	4 Secure	
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
			1			Mourning Dove	Zenaidura macroura			S5B,S5M,S4N	4 Secure	Breeding
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
						Great Horned Owl	Bubo virginianus			S4	4 Secure	
						Barred Owl	Strix varia			S5	4 Secure	
						Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
						Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
						Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding
						Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
						Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
						Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
						Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
						Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
						Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
3	2				1	Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding

					Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
					Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
					Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
					Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
					Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
					Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
					Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
					Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
				2	American Crow	Corvus brachyrhynchos			S5	4 Secure	
					Common Raven	Corvus corax			S5	4 Secure	
	1				Blue Jay	Cyanocitta cristata			S5	4 Secure	
					Canada Jay	Perisoreus canadensis			S4	4 Secure	
					Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
					Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
					Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
					White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
					Brown Creeper	Certhia americana			S5	4 Secure	
	1				Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
					Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
	2			2	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
					Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
					Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
					Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
2	2			1	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
					Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
					Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
					Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
					Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
					Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
					European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
					Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
					Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
					Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
					Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
					Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
					Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
					Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
					Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
					Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
					Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
					Rusty Blackbird	Euphagus carolinus	SC	Special Cor	S3B,S3M	2 May Be At Risk	Breeding
					Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
1	1	2		2	4	Common Yellowthroat	Geothlypis trichas		S5B,S5M	4 Secure	Breeding
1	1					Dark-eyed Junco	Junco hyemalis		S5	4 Secure	
						Swamp Sparrow	Melospiza georgiana		S5B,S5M	4 Secure	Breeding
1	1					Lincoln's Sparrow	Melospiza lincolni		S4B,S5M	4 Secure	Breeding
2	1	2		2	2	Song Sparrow	Melospiza melodia		S5B,S5M	4 Secure	Breeding
						Black-and-White Warbler	Mniotilta varia		S5B,S5M	4 Secure	Breeding
						Brown-headed Cowbird	Molothrus ater		S3B,S3M	2 May Be At Risk	Breeding
						Tennessee Warbler	Oreothlypis peregrina		S4B,S5M	4 Secure	Breeding
1				1	1	Nashville Warbler	Oreothlypis ruficapilla		S5B,S5M	4 Secure	Breeding
						Northern Waterthrush	Parkesia noveboracensis		S4B,S5M	4 Secure	Breeding
						Savannah Sparrow	Passerculus sandwichensis		S4S5B,S5M	4 Secure	Breeding
						Fox Sparrow	Passerella iliaca		S4B,S5M	4 Secure	Breeding
						Rose-breasted Grosbeak	Pheucticus ludovicianus		S4B,S4M	3 Sensitive	Breeding
						Scarlet Tanager	Piranga olivacea		S3B,S3M	4 Secure	Breeding
						Snow Bunting	Plectrophenax nivalis		S5N,S5M	4 Secure	Non
						Common Grackle	Quiscalus quiscula		S5B,S5M	4 Secure	Breeding
						Ovenbird	Seiurus aurocapilla		S5B,S5M	4 Secure	Breeding
						Northern Parula	Setophaga americana		S5B,S5M	4 Secure	Breeding
						Black-throated Blue Warbler	Setophaga caerulescens		S5B,S5M	4 Secure	Breeding
						Bay-breasted Warbler	Setophaga castanea		S4B,S4S5M	4 Secure	Breeding
1						Yellow-rumped Warbler	Setophaga coronata		S5B,S5M	4 Secure	Breeding
						Blackburnian Warbler	Setophaga fusca		S5B,S5M	4 Secure	Breeding



	1				1	Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
1						Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
					3	Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
						Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
						Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
						American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
						Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
						Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
						Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
						Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
						American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
4	6	4		2	4	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
						White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
						Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
						Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
						Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
						Red Crossbill	Loxia curvirostra			S3	4 Secure	
						White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
						Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
						Pine Siskin	Spinus pinus			S3	4 Secure	
	2	1				American Goldfinch	Spinus tristis			S5	4 Secure	
						House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 39 SUMMER PC#5

7:39 AM	7:08 AM	6:16 AM	Time	8:20 AM	7:02 AM							
Wind: 0	11°C	10°C	10°C	Julie's Solo	10°C							
Wind: 2-3	Wind: 2-3	Wind: 2-3	Wind		Wind: 0-1							
CC%	CC%	CC 0%	CC%		CC 5%							
Sunny	Sunny, Cle	Sunny	Conditions		Sunny							
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
						American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
						Spruce Grouse	Falcipennis canadensis			S5	4 Secure	
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
						Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
						American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
						Herring Gull	Larus argentatus			S5	4 Secure	
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
						Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
						Great Black-backed Gull	Larus marinus			S5	4 Secure	
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
			1			Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
						Great Horned Owl	Bubo virginianus			S4	4 Secure	
						Barred Owl	Strix varia			S5	4 Secure	
						Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
			1			Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
						Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
					2	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
				1		Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
						Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
1			1		1	2	Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure Breeding
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk Breeding
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure Breeding
1							Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure Breeding
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure Breeding

						Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
						Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
						Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
						Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
						Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
						Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
						Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
				1	1	American Crow	Corvus brachyrhynchos			S5	4 Secure	
						Common Raven	Corvus corax			S5	4 Secure	
						Blue Jay	Cyanocitta cristata			S5	4 Secure	
						Canada Jay	Perisoreus canadensis			S4	4 Secure	
1					1	Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
						Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
						Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
			1			1 White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
						Brown Creeper	Certhia americana			S5	4 Secure	
						Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
						Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
3			1			1 Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
						Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
						Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
						Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
1	1				2	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
						Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
						Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
					4	Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
						Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
						Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
						European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
						Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
	1		1			Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
						Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
						Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
						Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
						Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
						Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
						Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
						Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
						Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
						Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
						Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
1			2			2 Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
2						2 Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
						Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
						Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
1					1	Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
1	2		1		1	1 Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
						Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
						Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
						Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
			1			Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
						Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
						Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
						Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
						Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
						Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
						Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
2	2		1			1 Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
					1	1 Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
			1			1 Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
						Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
						Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
						Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
2	2		2			2 Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
			2			1 Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding

					Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5B,S5M	4 Secure	Breeding
					Yellow Warbler	<i>Setophaga petechia</i>			S5B,S5M	4 Secure	Breeding
					Pine Warbler	<i>Setophaga pinus</i>			S5B,S5M	4 Secure	Breeding
1		2		1	2	American Redstart	<i>Setophaga ruticilla</i>		S5B,S5M	4 Secure	Breeding
						Blackpoll Warbler	<i>Setophaga striata</i>		S3S4B,S5M	4 Secure	Breeding
						Cape May Warbler	<i>Setophaga tigrina</i>		S3B,S4S5M	4 Secure	Breeding
	1				1	Black-throated Green Warbler	<i>Setophaga virens</i>		S5B,S5M	4 Secure	Breeding
						Chipping Sparrow	<i>Spizella passerina</i>		S5B,S5M	4 Secure	Breeding
						American Tree Sparrow	<i>Spizelloides arborea</i>		S5N,S5M	4 Secure	Non
3		2		2	3	White-throated Sparrow	<i>Zonotrichia albicollis</i>		S5B,S5M	4 Secure	Breeding
						White-crowned Sparrow	<i>Zonotrichia leucophrys</i>		S4M	4 Secure	Transient
						Common Redpoll	<i>Acanthis flammea</i>		S5N,S5M	4 Secure	Non
						Evening Grosbeak	<i>Coccothraustes vespertinus</i>	SC	S3B,S3S4N,SUM	3 Sensitive	Breeding
						Purple Finch	<i>Haemorhous purpureus</i>		S4S5B,SUN,S5M	4 Secure	Breeding
						Red Crossbill	<i>Loxia curvirostra</i>		S3	4 Secure	
						White-winged Crossbill	<i>Loxia leucoptera</i>		S5	4 Secure	
						Pine Grosbeak	<i>Pinicola enucleator</i>		S2B,S4S5N,S4S5M	3 Sensitive	Breeding
						Pine Siskin	<i>Spinus pinus</i>		S3	4 Secure	
1				1	1	American Goldfinch	<i>Spinus tristis</i>		S5	4 Secure	
						House Sparrow	<i>Passer domesticus</i>		SNA	7 Exotic	Exotic

TABLE 40 SUMMER PC#6

7:58 AM	7:27 AM	5:58 AM	Time	8:42 AM	Time							
Wind: 0-1	Wind: 1	Wind: 2-3	Wind	Julie's Solo	Wind: 0							
CC%	CC 30%	CC 10%	CC%		CC 0%							
Sunny	Sunny	Thin, clear	Conditions		Sunny							
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
						American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
						Spruce Grouse	Falcipennis canadensis			S5	4 Secure	
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
						Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
						American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
						Herring Gull	Larus argentatus			S5	4 Secure	
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
						Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
						Great Black-backed Gull	Larus marinus			S5	4 Secure	
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
1						Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
						Great Horned Owl	Bubo virginianus			S4	4 Secure	
						Barred Owl	Strix varia			S5	4 Secure	
						Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
						Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
						Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
						Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
						Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
						Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
			1		1	Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
						Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
1						Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
2	1					Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
						Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding



					Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding		
					Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding		
					Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding		
					Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding		
					Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding		
					Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding		
					Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding		
	1	1		2	3	American Crow	Corvus brachyrhynchos		S5	4 Secure			
						Common Raven	Corvus corax		S5	4 Secure			
1	1					Blue Jay	Cyanocitta cristata		S5	4 Secure			
						Canada Jay	Perisoreus canadensis		S4	4 Secure			
						Black-capped Chickadee	Poecile atricapillus		S5	4 Secure			
						Boreal Chickadee	Poecile hudsonicus		S4	4 Secure			
		1				Red-breasted Nuthatch	Sitta canadensis		S5	4 Secure			
						White-breasted Nuthatch	Sitta carolinensis		S4	4 Secure			
						Brown Creeper	Certhia americana		S5	4 Secure			
						Winter Wren	Troglodytes hiemalis		S5B,S5M	4 Secure	Breeding		
						Veery	Catharus fuscescens		S4B,S4M	4 Secure	Breeding		
1					1	Hermit Thrush	Catharus guttatus		S5B,S5M	4 Secure	Breeding		
		1				1	Swainson's Thrush	Catharus ustulatus		S5B,S5M	4 Secure	Breeding	
							Ruby-crowned Kinglet	Regulus calendula		S4B,S5M	4 Secure	Breeding	
				1			Golden-crowned Kinglet	Regulus satrapa		S5	4 Secure		
		2				1	American Robin	Turdus migratorius		S5B,S5M	4 Secure	Breeding	
							Gray Catbird	Dumetella carolinensis		S4B,S4M	4 Secure	Breeding	
							Northern Mockingbird	Mimus polyglottos		S2B,S2M	3 Sensitive	Breeding	
				2			Cedar Waxwing	Bombycilla cedrorum		S5B,S5M	4 Secure	Breeding	
							Bohemian Waxwing	Bombycilla garrulus		S5N,S5M	4 Secure	Non	
							Northern Shrike	Lanius borealis		S4N,S4M	4 Secure	Non	
							European Starling	Sturnus vulgaris		SNA	7 Exotic	Exotic	
							Warbling Vireo	Vireo gilvus		S3B,S3M	4 Secure	Breeding	
						1	Red-eyed Vireo	Vireo olivaceus		S5B,S5M	4 Secure	Breeding	
							Philadelphia Vireo	Vireo philadelphicus		S5B,S5M	4 Secure	Breeding	
							Blue-headed Vireo	Vireo solitarius		S5B,S5M	4 Secure	Breeding	
							Red-winged Blackbird	Agelaius phoeniceus		S4B,S4M	4 Secure	Breeding	
							Nelson's Sparrow	Ammodramus nelsoni	NAR	S4B,S4M	4 Secure	Breeding	
							Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
							Wilson's Warbler	Cardellina pusilla		S4B,S5M	4 Secure	Breeding	
							Northern Cardinal	Cardinalis cardinalis		S4	4 Secure		
							Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
							Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
							Mourning Warbler	Geothlypis philadelphia		S4B,S5M	4 Secure	Breeding	
		1			1	1	Common Yellowthroat	Geothlypis trichas		S5B,S5M	4 Secure	Breeding	
			1			1	Dark-eyed Junco	Junco hyemalis		S5	4 Secure		
							Swamp Sparrow	Melospiza georgiana		S5B,S5M	4 Secure	Breeding	
							Lincoln's Sparrow	Melospiza lincolni		S4B,S5M	4 Secure	Breeding	
						1	Song Sparrow	Melospiza melodia		S5B,S5M	4 Secure	Breeding	
2						1	Black-and-White Warbler	Mniotilta varia		S5B,S5M	4 Secure	Breeding	
							Brown-headed Cowbird	Molothrus ater		S3B,S3M	2 May Be At Risk	Breeding	
							Tennessee Warbler	Oreothlypis peregrina		S4B,S5M	4 Secure	Breeding	
							Nashville Warbler	Oreothlypis ruficapilla		S5B,S5M	4 Secure	Breeding	
							Northern Waterthrush	Parkesia noveboracensis		S4B,S5M	4 Secure	Breeding	
							Savannah Sparrow	Passerculus sandwichensis		S4S5B,S5M	4 Secure	Breeding	
							Fox Sparrow	Passerella iliaca		S4B,S5M	4 Secure	Breeding	
							Rose-breasted Grosbeak	Pheucticus ludovicianus		S4B,S4M	3 Sensitive	Breeding	
							Scarlet Tanager	Piranga olivacea		S3B,S3M	4 Secure	Breeding	
							Snow Bunting	Plectrophenax nivalis		S5N,S5M	4 Secure	Non	
							Common Grackle	Quiscalus quiscula		S5B,S5M	4 Secure	Breeding	
2	2	1				1	Ovenbird	Seiurus aurocapilla		S5B,S5M	4 Secure	Breeding	
1						1	Northern Parula	Setophaga americana		S5B,S5M	4 Secure	Breeding	
							Black-throated Blue Warbler	Setophaga caerulescens		S5B,S5M	4 Secure	Breeding	
							Bay-breasted Warbler	Setophaga castanea		S4B,S4S5M	4 Secure	Breeding	
		1					Yellow-rumped Warbler	Setophaga coronata		S5B,S5M	4 Secure	Breeding	
							Blackburnian Warbler	Setophaga fusca		S5B,S5M	4 Secure	Breeding	
						1	Magnolia Warbler	Setophaga magnolia		S5B,S5M	4 Secure	Breeding	
1	2	1				1	Palm Warbler	Setophaga palmarum		S5B,S5M	4 Secure	Breeding	

					Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5B,S5M	4 Secure	Breeding
					Yellow Warbler	<i>Setophaga petechia</i>			S5B,S5M	4 Secure	Breeding
					Pine Warbler	<i>Setophaga pinus</i>			S5B,S5M	4 Secure	Breeding
		1			American Redstart	<i>Setophaga ruticilla</i>			S5B,S5M	4 Secure	Breeding
					Blackpoll Warbler	<i>Setophaga striata</i>			S3S4B,S5M	4 Secure	Breeding
					Cape May Warbler	<i>Setophaga tigrina</i>			S3B,S4S5M	4 Secure	Breeding
					Black-throated Green Warbler	<i>Setophaga virens</i>			S5B,S5M	4 Secure	Breeding
					Chipping Sparrow	<i>Spizella passerina</i>			S5B,S5M	4 Secure	Breeding
					American Tree Sparrow	<i>Spizelloides arborea</i>			S5N,S5M	4 Secure	Non
2		2		1	3	White-throated Sparrow	<i>Zonotrichia albicollis</i>		S5B,S5M	4 Secure	Breeding
						White-crowned Sparrow	<i>Zonotrichia leucophrys</i>		S4M	4 Secure	Transient
						Common Redpoll	<i>Acanthis flammea</i>		S5N,S5M	4 Secure	Non
						Evening Grosbeak	<i>Coccothraustes vespertinus</i>	SC	S3B,S3S4N,SUM	3 Sensitive	Breeding
						Purple Finch	<i>Haemorhous purpureus</i>		S4S5B,SUN,S5M	4 Secure	Breeding
						Red Crossbill	<i>Loxia curvirostra</i>		S3	4 Secure	
						White-winged Crossbill	<i>Loxia leucoptera</i>		S5	4 Secure	
						Pine Grosbeak	<i>Pinicola enucleator</i>		S2B,S4S5N,S4S5M	3 Sensitive	Breeding
						Pine Siskin	<i>Spinus pinus</i>		S3	4 Secure	
	1	2				American Goldfinch	<i>Spinus tristis</i>		S5	4 Secure	
						House Sparrow	<i>Passer domesticus</i>		SNA	7 Exotic	Exotic

TABLE 41 SUMMER PC#7

8:22 AM	7:44 AM	5:37 AM	Time	9:02 AM	7:40 AM							
12°C	6°C	12°C	Julie's Solo	12°C								
Wind: 0-1	Wind	Wind: 1-2	Wind	Wind: 0								
CC%	CC 30%	CC 20%	CC%	CC 0%								
Conditions	Sunny	Thin clouds	Conditions	Sunny								
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
						American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
						Spruce Grouse	Falcipennis canadensis			S5	4 Secure	
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
						Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
						American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
						Herring Gull	Larus argentatus			S5	4 Secure	
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
						Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
						Great Black-backed Gull	Larus marinus			S5	4 Secure	
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
						Mourning Dove	Zenaid macroura			S5B,S5M,S4N	4 Secure	Breeding
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
						Great Horned Owl	Bubo virginianus			S4	4 Secure	
						Barred Owl	Strix varia			S5	4 Secure	
						Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
						Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
						Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
						3 Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
						1 Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
						Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
						1 Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
						Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
						Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
						3 Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
						1 Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding

						Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
						Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
						Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
						Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
						Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
						Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
						Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
		4				American Crow	Corvus brachyrhynchos			S5	4 Secure	
						Common Raven	Corvus corax			S5	4 Secure	
1	1			1		Blue Jay	Cyanocitta cristata			S5	4 Secure	
						Canada Jay	Perisoreus canadensis			S4	4 Secure	
						Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
						Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
						Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
						White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
						Brown Creeper	Certhia americana			S5	4 Secure	
						Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
						Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
1		1		1	1	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
						Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
1		1				Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
						Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
2	3	3		1		American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
						Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
						Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
				1	2	Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
						Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
						Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
						European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
						Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
	1					Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
						Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
		1		1		Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
						Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
						Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
						Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
						Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
						Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
						Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
						Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
						Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
1	1	2		1	2	Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
1	2	2			1	Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
						Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
						Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
						Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
						Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
						Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
						Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
		2				Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
						Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
						Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
						Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
						Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
						Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
						Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
						Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
				1		Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
						Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
						Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
						Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
	1	2			1	Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
						Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
2	2	1		2	2	Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
				1	1	Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding

						Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5B,S5M	4 Secure	Breeding
						Yellow Warbler	<i>Setophaga petechia</i>			S5B,S5M	4 Secure	Breeding
						Pine Warbler	<i>Setophaga pinus</i>			S5B,S5M	4 Secure	Breeding
						American Redstart	<i>Setophaga ruticilla</i>			S5B,S5M	4 Secure	Breeding
						Blackpoll Warbler	<i>Setophaga striata</i>			S3S4B,S5M	4 Secure	Breeding
						Cape May Warbler	<i>Setophaga tigrina</i>			S3B,S4S5M	4 Secure	Breeding
					1	Black-throated Green Warbler	<i>Setophaga virens</i>			S5B,S5M	4 Secure	Breeding
						Chipping Sparrow	<i>Spizella passerina</i>			S5B,S5M	4 Secure	Breeding
						American Tree Sparrow	<i>Spizelloides arborea</i>			S5N,S5M	4 Secure	Non
1	4	3		2	4	White-throated Sparrow	<i>Zonotrichia albicollis</i>			S5B,S5M	4 Secure	Breeding
						White-crowned Sparrow	<i>Zonotrichia leucophrys</i>			S4M	4 Secure	Transient
						Common Redpoll	<i>Acanthis flammea</i>			S5N,S5M	4 Secure	Non
						Evening Grosbeak	<i>Coccothraustes vespertinus</i>	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
					2	Purple Finch	<i>Haemorhous purpureus</i>			S4S5B,SUN,S5M	4 Secure	Breeding
						Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
					1	White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
						Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
						Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
						American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
						House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic



**TABLE 42 SUMMER PC#8**

8:36 AM	7:57 AM	5:21 AM	Time	9:31 AM	7:55 AM							
Wind: 0-1	12°C	5°C	12°C	Julie's Solo	12°C							
Wind: 1-2	Wind: 2-3	Wind	Wind: 0									
CC%	CC 20%	CC 40%	CC%		CC 5%							
Conditions	Sunny	Thin Clouds	Conditions		Sunny							
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
						American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
						Spruce Grouse	Falcipennis canadensis			S5	4 Secure	
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
						Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
						American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
						Herring Gull	Larus argentatus			S5	4 Secure	
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
						Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
						Great Black-backed Gull	Larus marinus			S5	4 Secure	
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
						Mourning Dove	Zenaid macroura			S5B,S5M,S4N	4 Secure	Breeding
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
						Great Horned Owl	Bubo virginianus			S4	4 Secure	
						Barred Owl	Strix varia			S5	4 Secure	
						Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
						Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
						Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
	1				2	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
						Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
						Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
						Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
						Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
						Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
1						Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
						Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding

						Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
						Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
						Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
						Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
						Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
						Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
						Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
						American Crow	Corvus brachyrhynchos			S5	4 Secure	
						Common Raven	Corvus corax			S5	4 Secure	
1						Blue Jay	Cyanocitta cristata			S5	4 Secure	
						Canada Jay	Perisoreus canadensis			S4	4 Secure	
			1			Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
						Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
						Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
						White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
						Brown Creeper	Certhia americana			S5	4 Secure	
						Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
						Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
		3	1		1	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
						Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
						Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
						Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
		1	1			American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
						Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
						Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
						Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
						Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
						Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
						European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
						Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
		2			1	Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
						Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
						Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
						Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
						Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
						Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
						Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
						Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
						Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
						Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
						Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
						Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
1			1			Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
						Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
						Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
						Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
			1		1	Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
						Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
						Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
1						Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
						Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
						Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
						Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
						Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
						Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
						Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
					1	Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
					1	Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
					1	Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
						Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
						Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
						Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
						Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
1						Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
						Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding

	1				Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5B,S5M	4 Secure	Breeding
					Yellow Warbler	<i>Setophaga petechia</i>			S5B,S5M	4 Secure	Breeding
					Pine Warbler	<i>Setophaga pinus</i>			S5B,S5M	4 Secure	Breeding
	1	1		1	3 American Redstart	<i>Setophaga ruticilla</i>			S5B,S5M	4 Secure	Breeding
					Blackpoll Warbler	<i>Setophaga striata</i>			S3S4B,S5M	4 Secure	Breeding
					Cape May Warbler	<i>Setophaga tigrina</i>			S3B,S4S5M	4 Secure	Breeding
					Black-throated Green Warbler	<i>Setophaga virens</i>			S5B,S5M	4 Secure	Breeding
					Chipping Sparrow	<i>Spizella passerina</i>			S5B,S5M	4 Secure	Breeding
					American Tree Sparrow	<i>Spizelloides arborea</i>			S5N,S5M	4 Secure	Non
2	2	2		1	3 White-throated Sparrow	<i>Zonotrichia albicollis</i>			S5B,S5M	4 Secure	Breeding
					White-crowned Sparrow	<i>Zonotrichia leucophrys</i>			S4M	4 Secure	Transient
					Common Redpoll	<i>Acanthis flammea</i>			S5N,S5M	4 Secure	Non
					Evening Grosbeak	<i>Coccothraustes vespertinus</i>	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
1					Purple Finch	<i>Haemorhous purpureus</i>			S4S5B,SUN,S5M	4 Secure	Breeding
					Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
					White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
					Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
					Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
					American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
					House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic

TABLE 43 SUMMER PC#9

6:30 AM	6:07 AM	7:37 AM	Time	6:58 AM	6:01 AM								
Temp	9°C	9°C	Temp	Julie's Solo	9°C								
Wind: 0	Wind: 1-2,	Wind: 1	Wind		Wind: 1								
CC%	CC 40%	CC 0%	CC%		CC 10%								
Conditions	Clearing	Sunny	Conditions		Conditions								
07-Jun	11-Jun	12-Jun	22-Jun	27-Jun	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
						Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding	
						Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
						Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
						Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
						Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
						Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding	
						American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding	
						Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
						Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
						Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding	
						Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding	
						Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding	
						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
						Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
						Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
						Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
						Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
						Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
						Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
						Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
						Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
						American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
						Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
						Spruce Grouse	Falcipennis canadensis			S5	4 Secure		
						Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
						Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
						Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
						Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
						Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
						Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
						American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
						Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
						Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding	
						Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
						Herring Gull	Larus argentatus			S5	4 Secure		
						Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
						Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non	
						Great Black-backed Gull	Larus marinus			S5	4 Secure		
						Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
						Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
						Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding	
						Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
						Great Horned Owl	Bubo virginianus			S4	4 Secure		
						Barred Owl	Strix varia			S5	4 Secure		
						Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	
						Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding	
						Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding	
						Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding	
					1	1	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
					1		Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
						1	Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
							Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
					1	1	Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
							Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
							Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
	1	2	2		1	2	Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
							Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding

						Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
						Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
						Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
						Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
						Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
						Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
						Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
	1				2	American Crow	Corvus brachyrhynchos			S5	4 Secure	
						Common Raven	Corvus corax			S5	4 Secure	
	1	1				Blue Jay	Cyanocitta cristata			S5	4 Secure	
						Canada Jay	Perisoreus canadensis			S4	4 Secure	
						Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
						Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
						Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
						White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
						Brown Creeper	Certhia americana			S5	4 Secure	
						Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
						Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
1	1	1		1	1	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
1					1	Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
						Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
						Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
2	2	1		2		American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
						Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
						Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
	1	2		1		Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
						Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
						Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
						European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
						Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
						Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
						Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
					1	Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
						Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
						Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
						Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
						Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
						Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
						Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
						Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be At Risk	Breeding
						Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
3	2	3		2		Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
		1		1		Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
						Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
						Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
						Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
2						Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
						Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At Risk	Breeding
						Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
1	1					Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
						Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
						Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
						Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
						Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
						Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
						Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
						Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
4		2			1	Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
1						Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
1					1	Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
						Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
1	1	1				Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
						Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
		1	1		1	2	Magnolia Warbler	Setophaga magnolia		S5B,S5M	4 Secure	Breeding
		1					Palm Warbler	Setophaga palmarum		S5B,S5M	4 Secure	Breeding



		1			1	Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5B,S5M	4 Secure	Breeding
						Yellow Warbler	<i>Setophaga petechia</i>			S5B,S5M	4 Secure	Breeding
						Pine Warbler	<i>Setophaga pinus</i>			S5B,S5M	4 Secure	Breeding
					1	American Redstart	<i>Setophaga ruticilla</i>			S5B,S5M	4 Secure	Breeding
						Blackpoll Warbler	<i>Setophaga striata</i>			S3S4B,S5M	4 Secure	Breeding
						Cape May Warbler	<i>Setophaga tigrina</i>			S3B,S4S5M	4 Secure	Breeding
						Black-throated Green Warbler	<i>Setophaga virens</i>			S5B,S5M	4 Secure	Breeding
						Chipping Sparrow	<i>Spizella passerina</i>			S5B,S5M	4 Secure	Breeding
						American Tree Sparrow	<i>Spizelloides arborea</i>			S5N,S5M	4 Secure	Non
3	5	3		3	3	White-throated Sparrow	<i>Zonotrichia albicollis</i>			S5B,S5M	4 Secure	Breeding
						White-crowned Sparrow	<i>Zonotrichia leucophrys</i>			S4M	4 Secure	Transient
						Common Redpoll	<i>Acanthis flammea</i>			S5N,S5M	4 Secure	Non
						Evening Grosbeak	<i>Coccothraustes vespertinus</i>	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
						Purple Finch	<i>Haemorhous purpureus</i>			S4S5B,SUN,S5M	4 Secure	Breeding
						Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
						White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
						Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
						Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
		1				American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
						House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic

TABLE 44 SUMMER WC#2.1

9:15 AM	9:45 AM	10:15 AM	10:45 AM	11:15 AM	11:45 AM	12:15 PM	12:45 PM	1:15 PM	1:45 PM	2:15 PM	2:45 PM									
12° C	13° C	14° C	14° C	15° C	15° C	15° C	15° C	16° C												
Wind: 1 S	Wind: 1-2 S	Wind:	Wind: 1-2 W	Wind: 0-1	Wind: 1 S	Wind: 1 S	Wind: 2-3	Wind: 2 SW	Wind: 2-3 W	Wind: 1-2 SW	Wind: 2-3 SW									
CC 10%	CC 5%	CC%	CC 0%	CC 5%	CC 5%	CC 5%	CC 10%	CC 30%	CC 50%	CC 40%	CC 60%									
Sunny	Sunny		Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sun + Cloud									
07-Jun	07-Jun	07-Jun	07-Jun	07-Jun	07-Jun	07-Jun	07-Jun	07-Jun	07-Jun	07-Jun	07-Jun	Incidentals	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
													Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding	
													Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
													Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
													Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
													Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
													Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding	
													American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding	
													Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
													Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
													Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding	
													Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding	
													Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding	
			2 Soaring 3 km SW of T10 at >150m			Gaining alt. SW of T10 at >150m				Gaining alt. near T8/T9/T10 at 50-150 m	Low >50m SW of T10		Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
													Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
													Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
													Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
													Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
													Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
							2 gained alt. over T10 then soared SW	Soaring above T10-T9 at 50-150m					Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
													Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
													Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
													American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
													Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
													Spruce Grouse	Falcapennis canadensis			S5	4 Secure		
													Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
													Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
													Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
													Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
													Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
													Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
													American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
													Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
													Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding	
													Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
													Herring Gull	Larus argentatus			S5	4 Secure		
													Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
													Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non	
													Great Black-backed Gull	Larus marinus			S5	4 Secure		
													Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
													Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
													Mourning Dove	Zenaidura macroura			S5B,S5M,S	4 Secure	Breeding	
													Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
													Great Horned Owl	Bubo virginianus			S4	4 Secure		
													Barred Owl	Strix varia			S5	4 Secure		
				2 foraging SW of T10 at 50-150m elevation	2 foraging 100-200m N of WC at <150 m								Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	
													Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding	
													Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding	
													Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding	
	Locally by WC#2												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding	
													Downy Woodpecker	Dryobates pubescens			S5	4 Secure		
													Hairy Woodpecker	Dryobates villosus			S5	4 Secure		
													Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure		
													Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding	
													Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding	
													Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding	
													Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding	
													Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding	
													Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding	
													Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding	
													Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding	
													Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding	
													Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding	
													Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding	
													Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding	
													American Crow	Corvus brachyrhynchos			S5	4 Secure		
													Common Raven	Corvus corax			S5	4 Secure		
			1 flying S to N		Moving S to N															

- Incidentals**  
 Palm Warbler  
 Northern Flicker  
 Song Sparrow  
 White-throated Sparrow  
 Alder Flycatcher  
 Dark-eyed Junco  
 Cedar Waxwing  
 Chestnut-sided Warbler  
 Black-throated Green V  
 Purple Finch  
 American Kestrel  
 Blue Jay



TABLE 45 SUMMER WC#2.2

8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30PM	2:00PM							
14° C	14° C	15° C																
Wind: 2	Wind:	Wind:	Wind:	Wind:	Wind:	Wind:	Wind:	Wind:	Wind:	Wind: 2 S	Wind: 2-3 SE, Gusts 4-5							
CC 30%	CC 20%	CC 20%	CC 20%	CC 20%	CC 30%	CC 30%	CC 50%	CC 60%	CC 60%	CC 70%	CC 70%							
Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sun + Clou	Cloudy with	Overcast	Overcast	Cloudy but bright							
11-Jun	11-Jun	11-Jun	11-Jun	11-Jun	11-Jun	11-Jun	11-Jun	11-Jun	11-Jun	11-Jun	11-Jun	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
												Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaidura macroura			S5B,S5M,S	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding
												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
												Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
												Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
												Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
												Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
												American Crow	Corvus brachyrhynchos			S5	4 Secure	

- Incidentals**  
 American Robin  
 Common Yellow-throa  
 Song Sparrow  
 White-throated Sparrow  
 Blue Jay  
 Alder Flycatcher  
 Ovenbird  
 Magnolia Warbler  
 Black-throated Green V  
 Palm Warbler  
 Lincoln's Sparrow  
 Northern Flicker  
 Chimney Swift  
 Red-eyed Vireo  
 American Goldfinch  
 Cedar Waxwing  
 Hermit Thrush  
 Yellow-bellied sapsucker  
  
 Common raven  
 Mourning Dove  
 Dark-eyed Junco  
 Purple Finch

Low at T10

3 low flying neat T9 and T10

									2 used hollow to move N to S, T8 to T10			Common Raven	Corvus corax			S5	4 Secure	
		Flying S to N 3 over WC <50m										Blue Jay	Cyanocitta cristata			S5	4 Secure	
												Canada Jay	Perisoreus canadensis			S4	4 Secure	
												Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
												Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
												Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
												White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
												Brown Creeper	Certhia americana			S5	4 Secure	
												Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
												Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
												Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
												Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
												Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
												Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
2 at TT level over T9 <50m												American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
												Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
												Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
		T10 at 50-150m										Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
												Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
												Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
												European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
												Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
												Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
												Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
												Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
												Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
												Nelson's Sparrow	Amospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
												Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
												Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
												Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
												Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
												Rusty Blackbird	Euphagus carolinus	SC	Special Cor	S3B,S3M	2 May Be A	Breeding
												Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
												Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
												Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
												Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
												Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
												Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
												Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
												Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be A	Breeding
												Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
												Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
												Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
												Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
												Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
												Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
												Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
												Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
												Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
												Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
												Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
												Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
												Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
												Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
												Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
												Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
												Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
												Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
												Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
												Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
												American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
												Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
												Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
												Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
												Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
												American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
												White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
												White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
												Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
												Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N	3 Sensitive	Breeding
												Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
												Red Crossbill	Loxia curvirostra			S3	4 Secure	
												White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
												Pine Grosbeak	Pinicola enucleator			S2B,S4S5N	3 Sensitive	Breeding
												Pine Siskin	Spinus pinus			S3	4 Secure	
												American Goldfinch	Spinus tristis			S5	4 Secure	
												House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic



				SW of T10 soaring >150m elev.							Buteo spp.						
								Into hollow, low nearest T9 W	Low over T9, local movemen t		Passerine						

**Notes**  
Small prop plan observed flying over T9 at 8:30 AM, 1000ft elevation

TABLE 46 SUMMER WC#2.3

9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM							
10° C	11° C	12° C	14° C	17° C	17° C	17° C	17° C	18° C		20° C	20° C							
Wind: 1, G	Wind: 1-2	Wind: 1-2, G	Wind: 2, G	Wind: 2 NW	Wind: 3 NW	Wind: 2 NW	Wind: 2 NW	Wind: 3 NW	Wind: 2, G	Wind: 2-3	Wind:							
CC 0%	CC 5%	CC 1%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%							
Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny							
12-Jun	12-Jun	12-Jun	12-Jun	12-Jun	12-Jun	12-Jun	12-Jun	12-Jun	12-Jun	12-Jun	12-Jun	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S4	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S4	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S4	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S4	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S4	4 Secure	Breeding
				T10 50-150m then decended								Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcipennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaidura macroura			S5B,S5M,S4	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megascops alcyon			S5B,S5M	4 Secure	Breeding
												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
												Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
												Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
												Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
												Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
												American Crow	Corvus brachyrhynchos			S5	4 Secure	

- Incidentals**  
 Common Yellow-throat  
 Song Sparrow  
 White-throated Sparrow  
 Magnolia Warbler  
 Alder Flycatcher  
 Chimney Swift  
 Overbird  
 Hermit Thrush  
 Palm Warbler  
 Dark-eyed Junco  
 Black-and-White Warbler

TT level at T9, stayed low between T9 and T10 (Crow OR Raven)  
 Over T8, T9 and T10 at <50 to 50-150m

Local movement. Carrying food.

								Come out of hollow and flew past WC at TT level			Common Raven	Corvus corax			S5	4 Secure	
	Local movement over WC										Blue Jay	Cyanocitta cristata			S5	4 Secure	
											Canada Jay	Perisoreus canadensis			S4	4 Secure	
											Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
											Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
											Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
											Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
											Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
									Local movement at WC		American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
											Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
											Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Cor	S3B,S3M	2 May Be A	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
											Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
											Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
											Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be A	Breeding
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
											Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
											Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
											White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra			S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	
											American Goldfinch	Spinus tristis			S5	4 Secure	

											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
					W of T10						Swallow Spp.						

TABLE 47 SUMMER WC#2.4

10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM									
15° C	15° C	14° C	14° C	14° C	14° C	14° C	14° C	15° C												
Wind: 1	Wind: 2	Wind: 2-3	Wind: 1	Wind: 2-3	Wind: 1	Wind: 1	Wind: 1-2	Wind: 1	Wind: 0-1	Wind: 0-1	Wind: 1-2									
CC%	CC 80%	CC 90%	CC 80%	CC 90%	CC 70-80%	CC 90%	CC 80-90%	CC 80%	CC 80-90%	CC 80%	CC 70-80%									
Overcast		Light rain,	Steady Rai	Rain steady	Improved V	Vis reduce	Light rain,	Good visib	No rain											
27-Jun	27-Jun	27-Jun	27-Jun	27-Jun	27-Jun	27-Jun	27-Jun	27-Jun	27-Jun	27-Jun	27-Jun									
												CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank		
													Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding	
													Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
													Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
													Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
													Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
													Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding	
													American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding	
													Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
													Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
													Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding	
													Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding	
													Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding	
												Gains alt. moving N above watch location then moved W at <100m	Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
													Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
													Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
													Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
													Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
													Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
Low <50 ft moving N of watch, diving into trees	Same location - N of watch above low trees																			
														Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
														Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
														Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
														American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
														Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
														Spruce Grouse	Falciennis canadensis			S5	4 Secure	
														Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
														Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
														Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
														Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
														Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
														Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
														American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
														Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
														Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
														Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
														Herring Gull	Larus argentatus			S5	4 Secure	
														Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
														Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
														Great Black-backed Gull	Larus marinus			S5	4 Secure	
														Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
														Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
														Mourning Dove	Zenaidura macroura			S5B,S5M,S	4 Secure	Breeding
														Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
														Great Horned Owl	Bubo virginianus			S4	4 Secure	
														Barred Owl	Strix varia			S5	4 Secure	
														Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
														Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
														Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
														Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
														Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
														Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
														Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
														Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
														Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
														Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
														Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
														Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
														Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
														Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
														Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
														Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
														Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
														Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
														Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
														Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
														American Crow	Corvus brachyrhynchos			S5	4 Secure	

**Incidentals**  
 NOHA observed  
 BLJA heard/observed  
 PAWA heard/observed  
 SOSP  
 WTSP heard/observed  
 BTGW observed

Heard



								Moving NE from valley towards T10, but not over			Common Raven	Corvus corax			S5	4 Secure	
Local movements W											Blue Jay	Cyanocitta cristata			S5	4 Secure	
											Canada Jay	Perisoreus canadensis			S4	4 Secure	
											Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
											Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
											Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
											Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
								Heard			Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
											Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
											American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
											Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
											Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Cor	S3B,S3M	2 May Be A	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
											Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
											Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
								Heard			Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be A	Breeding
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
											Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parlesia noveboracensis			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
											Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
								Heard	Heard		White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N	3 Sensitive	Breeding
								Observed			Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra			S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	

											American Goldfinch	Spinus tristis			S5	4 Secure	
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic

TABLE 48 SUMMER WC#2.5

8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM							
14° C	15° C	16° C	17° C	18° C	18° C	19° C	19° C	20° C	20° C	21° C	22° C							
Wind: 0-1	Wind: 0-1 S	Wind: 0-1 S	Wind: 1 W	Wind: 1 NW	Wind: 1-2 N	Wind: 1 NW	Wind: 1-2	Wind: 1-2	Wind: 2 SW	Wind: 2 SW	Wind: 2 S							
CC%	CC%	CC%	CC 5%	CC 5%	CC 5%	CC 5%	CC 5%	CC 5%	CC 5%	CC 5%	CC 10%							
Sunny	Sunny	Sunny, calm	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny							
08-Jul	08-Jul	08-Jul	08-Jul	08-Jul	08-Jul	08-Jul	08-Jul	08-Jul	08-Jul	08-Jul	08-Jul	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
				Gaining alt 50-150m between T9 and T10					1 near T8 gaining alt >150m	2 passed S of T10 at >150m		Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breed
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaida macroura			S5B,S5M,S	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Cor	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
												Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
												Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
												Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding

											Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
											American Crow	Corvus brachyrhynchos			S5	4 Secure	
							1 near T10 50-150 m headed S				Common Raven	Corvus corax			S5	4 Secure	
											Blue Jay	Cyanocitta cristata			S5	4 Secure	
											Canada Jay	Perisoreus canadensis			S4	4 Secure	
											Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
											Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
											Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
											Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
											Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
											American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
		2 flying near WC location	1 Flying near WC, 2 near hollow (T8,T9,T10)	5 local movement near WC	4 local movement near WC#2	2 local movement at WC#2	2 local movement				Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
											Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Cor	S3B,S3M	2 May Be A	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
											Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
											Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
											Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be A	Breeding
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
											Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
											Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
											White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non

												Evening Grosbeak	<i>Coccothraustes vespertinus</i>	SC		S3B,S3S4N	3 Sensitive	Breeding
												Purple Finch	<i>Haemorhous purpureus</i>			S4S5B,SUN	4 Secure	Breeding
												Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
												White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
												Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N	3 Sensitive	Breeding
												Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
												American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
												House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic
				2 High over ridge >150m								Buteo Spp.						



TABLE 50 FALL PC#1

6:51 AM	6:34 AM	9:50 AM	7:00 AM	7:11 AM	10:07 AM	7:20 AM	10:11 AM	10:20 AM	10:34 AM	8:01 AM							
19° C	15° C		11° C	10° C	11° C	14° C	6° C	7° C	7° C	6° C							
Wind:1-3	Wind:1-2	Wind: 2	Wind: 3	Wind: 3	Wind: 2-3	Wind: 1	Wind: 3	Wind: 1-2	Wind: 2-3	Wind: 3							
CC 100%	CC 5%	CC 50%	CC 80%	CC 100%	CC 0%	CC 80%	CC 10%	CC 90%	CC 40%	CC 100%							
Overcast,	Clear	Sun and Cl	Cloudy	Foggy, Dri	Sunny	Overcast	Sunny	Overcast,	Sun & Clot	Foggy							
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct							
											CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
											Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
											Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
											Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
											Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
											American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
											Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
											Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
											Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
											Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
											Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
											Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
1							1				American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
											Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
											Herring Gull	Larus argentatus			S5	4 Secure	
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
											Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
											Great Black-backed Gull	Larus marinus			S5	4 Secure	
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
											Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
											Great Horned Owl	Bubo virginianus			S4	4 Secure	
											Barred Owl	Strix varia			S5	4 Secure	
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
											Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
			1								Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
											Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
											Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
											Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
											Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
											Pileated Woodpecker	Tyrannus pileatus			S5	4 Secure	
											Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
											Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
											Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
											Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
											Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
											Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
											Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
											Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
											Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
											Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
											Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
											Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding

	1	1	1	2			2			1	American Crow	Corvus brachyrhynchos				S5	4 Secure	
						2	1		1		Common Raven	Corvus corax				S5	4 Secure	
	1			1		4			2	3	2 Blue Jay	Cyanocitta cristata				S5	4 Secure	
											Canada Jay	Perisoreus canadensis				S4	4 Secure	
		2									2 Black-capped Chickadee	Poecile atricapillus				S5	4 Secure	
											Boreal Chickadee	Poecile hudsonicus				S4	4 Secure	
				1	1	1				1	Red-breasted Nuthatch	Sitta canadensis				S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis				S4	4 Secure	
											Brown Creeper	Certhia americana				S5	4 Secure	
											Winter Wren	Troglodytes hiemalis				S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens				S4B,S4M	4 Secure	Breeding
1										1	Hermit Thrush	Catharus guttatus				S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus				S5B,S5M	4 Secure	Breeding
										1	Ruby-crowned Kinglet	Regulus calendula				S4B,S5M	4 Secure	Breeding
										2	Golden-crowned Kinglet	Regulus satrapa				S5	4 Secure	
	1		2		4	6	2			1	American Robin	Turdus migratorius				S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis				S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos				S2B,S2M	3 Sensitive	Breeding
	1		3								Cedar Waxwing	Bombcilla cedrorum				S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombcilla garrulus				S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis				S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris				SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus				S3B,S3M	4 Secure	Breeding
	1	1									Red-eyed Vireo	Vireo olivaceus				S5B,S5M	4 Secure	Breeding
						1	1				Philadelphia Vireo	Vireo philadelphicus				S5B,S5M	4 Secure	Breeding
											Blue-headed Vireo	Vireo solitarius				S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus				S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammospiza nelsoni	NAR			S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened		S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla				S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis				S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened		S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Concern		S3B,S3M	2 May Be At Risk	Breeding
											Mourning Warbler	Geothlypis philadelphia				S4B,S5M	4 Secure	Breeding
3		1			1						Common Yellowthroat	Geothlypis trichas				S5B,S5M	4 Secure	Breeding
										1	Dark-eyed Junco	Junco hyemalis				S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana				S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni				S4B,S5M	4 Secure	Breeding
		2								4	Song Sparrow	Melospiza melodia				S5B,S5M	4 Secure	Breeding
			1		1						Black-and-White Warbler	Mniotilta varia				S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater				S3B,S3M	2 May Be At Risk	Breeding
											Tennessee Warbler	Oreothlypis peregrina				S4B,S5M	4 Secure	Breeding
			1								Nashville Warbler	Oreothlypis ruficapilla				S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parlesia noveboracensis				S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis				S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca				S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus				S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea				S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis				S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula				S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla				S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana				S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens				S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea				S4B,S4S5M	4 Secure	Breeding
			3		1	2		1		1	Yellow-rumped Warbler	Setophaga coronata				S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca				S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia				S5B,S5M	4 Secure	Breeding
			3		2					1	Palm Warbler	Setophaga palmarum				S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica				S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia				S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus				S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla				S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata				S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina				S3B,S4S5M	4 Secure	Breeding
			1								Black-throated Green Warbler	Setophaga virens				S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina				S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea				S5N,S5M	4 Secure	Non
1	2	2			3	1	1	3	3		White-throated Sparrow	Zonotrichia albicollis				S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys				S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea				S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertinus	SC			S3B,S3S4N,SUM	3 Sensitive	Breeding
							2				Purple Finch	Haemorhous purpureus				S4S5B,SUN,S5M	4 Secure	Breeding

		4								Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
										White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
										Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
										Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
2					2					American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
										House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic
		3								Passerine Spp.						

TABLE 51 FALL PC#2

7:21 AM	6:56 AM	8:47 AM	7:28 AM	7:39 AM	9:01 AM	7:44 AM	9:16 AM	9:23 AM	9:42 AM	8:22 AM							
19° C	15° C		11° C	10° C	9° C	14° C	4° C	6° C	6° C	6° C							
Wind:2-3	Wind: 2-3	Wind: 3	Wind: 4 ,G	Wind: 3	Wind: 4	Wind: 1-2	Wind: 3	Wind: 1-2	Wind: 2-3	Wind: 3-4							
CC 100%	CC 5%	CC 30%	CC 70%	CC 100%	CC 0%	CC 60%		CC 80%	CC 60%	CC 100%							
Overcast,	Sunny	Sunny	Cloudy	Foggy, Dri	Sunny	Clearing	Clear & Su	Overcast	Cloudy	Foggy							
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
											Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
											Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
											Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
											Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
											American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
											Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
											Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
											Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
											Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
											Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
											Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
				1				1			American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
											Spruce Grouse	Falciennis canadensis			S5	4 Secure	
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus E
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
											Herring Gull	Larus argentatus			S5	4 Secure	
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
											Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
											Great Black-backed Gull	Larus marinus			S5	4 Secure	
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
											Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
											Great Horned Owl	Bubo virginianus			S4	4 Secure	
											Barred Owl	Strix varia			S5	4 Secure	
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
											Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
											Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
											Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
						1					Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding

		1							Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
									Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
									Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
									Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
									Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
									Eastern Wood-Pewee	Contopus virens	SC	Special Conc	S4B,S4M	4 Secure	Breeding
									Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
									Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
									Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
									Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
									Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
									Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
									Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
									Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
									Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
			1		1		2		1 American Crow	Corvus brachyrhynchos			S5	4 Secure	
						1		1	Common Raven	Corvus corax			S5	4 Secure	
1		2			2		1		1 Blue Jay	Cyanocitta cristata			S5	4 Secure	
									Canada Jay	Perisoreus canadensis			S4	4 Secure	
									Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
									Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
									Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
									White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
									Brown Creeper	Certhia americana			S5	4 Secure	
									Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
									Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
									Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
									Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
									Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
									Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
						2			2 American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
									Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
									Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
		5							Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
									Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
									Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
									European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
									Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
									Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
									Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
									Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
									Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
									Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
									Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
									Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
									Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
									Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
									Rusty Blackbird	Euphagus carolinus	SC	Special Conc	S3B,S3M	2 May Be At	Breeding
									Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
	1	2							Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
	4	1			2	2			2 1 Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
									Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
									Lincoln's Sparrow	Melospiza lincolnii			S4B,S5M	4 Secure	Breeding
		1		1		2			Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
									Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
									Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At	Breeding
									Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding



										Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
										Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
										Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
										Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
										Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
										Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
										Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
										Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
										Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
										Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
		1								Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
										Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
		3								Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
										Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
										Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
	6	1	1		1	5				Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
										Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
										Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
										Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
	1									American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
										Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
										Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
										Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
										Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
										American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
		2	1	2	1	3	2	1		White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
										White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
										Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
										Evening Grosbeak	Coccothraustes vespertina	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
										Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding
										Red Crossbill	Loxia curvirostra			S3	4 Secure	
										White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
										Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S5M	3 Sensitive	Breeding
										Pine Siskin	Spinus pinus			S3	4 Secure	
								1		American Goldfinch	Spinus tristis			S5	4 Secure	
										House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
	6									Brown Sparrow						
	2	4								Warbler Spp.						
			2			1		1	15	Passerine Spp.						

TABLE 52 FALL PC#3

8:24 AM	7:44 AM	8:30 AM	8:25 AM	8:48 AM	8:43 AM	8:40 AM	8:59 AM	9:07 AM	9:25 AM	9:05 AM								
19° C	17° C		12° C	11° C	8° C	15° C	4° C	6° C	5° C	6° C								
Wind:3-4	Wind:	Wind: 2-3	Wind: 4	Wind: 2-3	Wind: 3	Wind: 2-3	Wind: 3	Wind: 1-2	Wind: 2	Wind: 2								
CC 90%	CC%	CC 30%	CC 40%	CC 100%	CC 0%	CC 10%		CC 80%	CC 50%	CC 90%								
Overcast		Sunny	Sunny	Drizzle, Cl	Sunny	Sunny	Clear & Su	Overcast	Sun & Clo	Fog Clearing								
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
											Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding	
											Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
		2									Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
											Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding	
											American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding	
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
											Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding	
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding	
											Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding	
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding	
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
											Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
										1	Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
						1					Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
		1									Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
						1					American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
											Spruce Grouse	Falcapennis canadensis			S5	4 Secure		
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bree	
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
											Herring Gull	Larus argentatus			S5	4 Secure		
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
											Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non	
											Great Black-backed Gull	Larus marinus			S5	4 Secure		
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
											Mourning Dove	Zenaida macroura			S5B,S5M,S	4 Secure	Breeding	
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
											Great Horned Owl	Bubo virginianus			S4	4 Secure		
											Barred Owl	Strix varia			S5	4 Secure		
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	

										Chimney Swift	Chaetura pelagica	T	Threatene	S2S3B,S2M	1 At Risk	Breeding
										Ruby-throated Hummin	Archilochus colubris			S5B,S5M	4 Secure	Breeding
										Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
						1		1		Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
										Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
										Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
										Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
										Yellow-bellied Sapsucke	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
										Olive-sided Flycatcher	Contopus cooperi	SC	Threatene	S3B,S3M	1 At Risk	Breeding
										Eastern Wood-Pewee	Contopus virens	SC	Special Co	S4B,S4M	4 Secure	Breeding
										Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
										Yellow-bellied Flycatche	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
										Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
										Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
										Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
										Barn Swallow	Hirundo rustica	T	Threatene	S2B,S2M	3 Sensitive	Breeding
										Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
										Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
										Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
	1									American Crow	Corvus brachyrhynchos			S5	4 Secure	
		1								2 Common Raven	Corvus corax			S5	4 Secure	
	1									Blue Jay	Cyanocitta cristata			S5	4 Secure	
										Canada Jay	Perisoreus canadensis			S4	4 Secure	
		1								Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
										Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
	1									Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
										White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
										Brown Creeper	Certhia americana			S5	4 Secure	
										Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
										Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
	1									Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
										Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
										Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
										1 Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
	2									8 American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
										Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
										Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
	2	3	5							2 Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
										Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
										Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
										European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
										Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
										Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
	1									Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
										Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
										Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
										Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
										Canada Warbler	Cardellina canadensis	T	Threatene	S3B,S3M	1 At Risk	Breeding
										Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
										Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
										Bobolink	Dolichonyx oryzivorus	T	Threatene	S3B,S3M	3 Sensitive	Breeding
										Rusty Blackbird	Euphagus carolinus	SC	Special Co	S3B,S3M	2 May Be	Breeding
										Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding

1			1							Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
2							1			Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
										Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
										Lincoln's Sparrow	Melospiza lincolnii			S4B,S5M	4 Secure	Breeding
			1							Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
				1						Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
										Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be	Breeding
										Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
										Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
										Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
										Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
										Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
										Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
										Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
										Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
										Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
										Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
										Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
										Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
										Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
			1							Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
										Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
										Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
							1			Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
										Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
										Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
										Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
										American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
										Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
										Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
			1							Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
			1							Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
										American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
	1		4	2	2		1	1	2	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
										White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
										Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
										Evening Grosbeak	Coccothraustes vespertina	SC		S3B,S3S4M	3 Sensitive	Breeding
										Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
										Red Crossbill	Loxia curvirostra			S3	4 Secure	
										White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
										Pine Grosbeak	Pinicola enucleator			S2B,S4S5M	3 Sensitive	Breeding
										Pine Siskin	Spinus pinus			S3	4 Secure	
										American Goldfinch	Spinus tristis			S5	4 Secure	
										House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
2	4			1			2			Warbler Spp.						

TABLE 53 FALL PC#4

8:39 AM	8:01 AM	8:11 AM	8:44 AM	9:05 AM	8:26 AM	8:51 AM	8:44 AM	8:50 AM	9:08 AM	9:22 AM							
19° C	17° C		13° C	11° C	7° C	15° C	3° C	6° C	5° C	7° C							
Wind: 2	Wind: 2	Wind: 2-3	Wind: 4	Wind: 3	Wind: 3-4	Wind: 3	Wind: 3	Wind: 1-2	Wind: 2-3	Wind: 3-4							
CC 100%	CC 5%	CC 40%	CC 20%	CC 100%	CC 0%	CC 30%	CC 0%	CC 80%	CC 60%	CC 90%							
Overcast,	Sunny	Sun/Cloud	Sunny	Drizzle and	Sunny	Sunny	Sunny	Overcast	Thin Cloud	Fog Clearing							
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct							
											Common Loon	Gavia immer	NAR		S4B,S4M,S4	4 Secure	Breeding
											Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
											Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
											Mallard	Anas platyrhynchos			S5B,S4N,S4	4 Secure	Breeding
											American Black Duck	Anas rubripes			S5B,S4N,S4	4 Secure	Breeding
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
											Common Merganser	Mergus merganser			S5B,S4N,S4	4 Secure	Breeding
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S4	4 Secure	Breeding
											Common Eider	Somateria mollissima			S3B,S4M,S4	4 Secure	Breeding
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
											Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
											Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
									1		Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
											Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
	1					2					American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
											Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bree
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
											Herring Gull	Larus argentatus			S5	4 Secure	
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
											Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
											Great Black-backed Gull	Larus marinus			S5	4 Secure	
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
											Mourning Dove	Zenaida macroura			S5B,S5M,S4	4 Secure	Breeding
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
											Great Horned Owl	Bubo virginianus			S4	4 Secure	
											Barred Owl	Strix varia			S5	4 Secure	
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
											Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
	1										Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding



										Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding	
		1			1		1			Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding	
										Downy Woodpecker	Dryobates pubescens			S5	4 Secure		
										Hairy Woodpecker	Dryobates villosus			S5	4 Secure		
										Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure		
										Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding	
										Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding	
										Eastern Wood-Pewee	Contopus virens	SC	Special Conc	S4B,S4M	4 Secure	Breeding	
		1								Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding	
										Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding	
										Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding	
										Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding	
										Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding	
										Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding	
										Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding	
										Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding	
										Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding	
										American Crow	Corvus brachyrhynchos			S5	4 Secure		
								1	2	1	Common Raven	Corvus corax			S5	4 Secure	
					2	1			2	1	Blue Jay	Cyanocitta cristata			S5	4 Secure	
											Canada Jay	Perisoreus canadensis			S4	4 Secure	
											Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
											Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
											Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
											Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
											Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
	2				1						American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
	2				3						Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
											Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
		1									Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Conc	S3B,S3M	2 May Be	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
		1									Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
1											Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding

1	2		1		2		1	3	2	1	Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be	Breeding
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
											Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
			1								Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
2		3	1		2						Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
			2								Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
			4	1							Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
			2								Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
		1	3	2	1	2	2	2	3	1	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertina	SC		S3B,S3S4M	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra			S3	4 Secure	
		2									White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5M	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	
											American Goldfinch	Spinus tristis			S5	4 Secure	
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
					1						Warbler Spp.						
									1		Passerine Spp.						

TABLE 54 FALL PC#5

9:12 AM	8:19 AM	7:53 AM	9:01 AM	9:26 AM	8:08 AM	9:17 AM	8:27 AM	8:31 AM	8:50 AM	9:40 AM							
20° C			14° C	11° C	6° C	16° C	10° C	6° C	4° C	7° C							
Wind:3-4	Wind: 2	Wind: 2	Wind: 4	Wind: 2	Wind: 3	Wind: 2-3	Wind: 2-3	Wind: 1	Wind: 1-2	Wind: 3							
CC 100%	CC 0%	CC 30%	CC 10%	CC 100%	CC 0%	CC 30%	CC 10%	CC 80%	CC 70%	CC 80%							
Foggy, Vis	Sunny	Sunny	Sunny	Drizzle, Fo	Sunny	Sunny	Sunny	Overcast	Thin Cloud	Clearing							
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
											Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
											Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
											Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
											Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
											American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
											Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
											Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
											Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
											Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
											Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
											Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
											American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
											Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bree
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
											Herring Gull	Larus argentatus			S5	4 Secure	
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
											Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
											Great Black-backed Gull	Larus marinus			S5	4 Secure	
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
											Mourning Dove	Zenaida macroura			S5B,S5M,S	4 Secure	Breeding
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
											Great Horned Owl	Bubo virginianus			S4	4 Secure	
											Barred Owl	Strix varia			S5	4 Secure	
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
											Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
											Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
											Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
	1	1	1	2				1	1		Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
				1							Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
											Hairy Woodpecker	Dryobates villosus			S5	4 Secure	

										Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
	1				2					Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
										Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
										Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
										Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
										Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
										Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
										Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
										Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
										Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
										Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
										Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
										Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
1	3	3		2			1			American Crow	Corvus brachyrhynchos			S5	4 Secure	
			1				1	1		Common Raven	Corvus corax			S5	4 Secure	
	1			2			2	3	1	Blue Jay	Cyanocitta cristata			S5	4 Secure	
										Canada Jay	Perisoreus canadensis			S4	4 Secure	
	1		2				1			Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
										Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
	1			1	1					Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
										White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
										Brown Creeper	Certhia americana			S5	4 Secure	
										Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
										Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
										Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
										Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
										Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
								1	1	Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
		2	1				3	5	2	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
										Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
										Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
1										Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
										Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
									1	Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
										European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
										Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
	1	1					1			Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
										Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
							1	1		Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
										Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
										Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
										Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
										Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
										Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
										Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
										Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be	Breeding
										Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
			1							Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
								2		Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
										Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
										Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding
2	5	1					1	1	7	1	1			S5B,S5M	4 Secure	Breeding
										Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
										Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be	Breeding
										Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
										Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
										Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
										Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
										Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding

										Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
										Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
										Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
								2		Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
										Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
										Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
										Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
										Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
		1			1					Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
										Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
										Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
	1	2				1				Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
										Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
										Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
		1								Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
										American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
										Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
										Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
										Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
										Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
										American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
	3			1		1	2	2		White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
										White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
										Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
										Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4M	3 Sensitive	Breeding
		1								Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
										Red Crossbill	Loxia curvirostra			S3	4 Secure	
										White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
										Pine Grosbeak	Pinicola enucleator			S2B,S4S5M	3 Sensitive	Breeding
										Pine Siskin	Spinus pinus			S3	4 Secure	
				2						American Goldfinch	Spinus tristis			S5	4 Secure	
										House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
		4					2			Warbler Spp.						



TABLE 55 FALL PC#6

9:31 AM	8:37 AM	7:36 AM	9:18 AM	9:44 AM	7:47 AM	9:39 AM	8:04 AM	8:12 AM	8:29 AM	9:56 AM							
20° C		12° C	14° C	12° C	5° C	16° C	3° C	5° C	4° C	8° C							
Wind:2-3	Wind: 0	Wind: 0-1	Wind: 4	Wind: 2	Wind: 2-3	Wind: 3	Wind: 1-2	Wind: 1	Wind: 2-3	Wind: 3-4							
CC 100%	CC 0%	CC 40%	CC 20%	CC 100%	CC 0%	CC 70%	CC 0%	CC 90%	CC 70%	CC 70%							
Foggy, Vis	Sunny	Sunny	Sunny	Cloudy	Sunny	Cloudy	Sunny	Overcast	Cloudy	Clearing							
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
											Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
											Double-crested Cormoran	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
											Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
											Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
											American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
											Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
											Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
											Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
											Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
											Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
											Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
											American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
											Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bree
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
											Herring Gull	Larus argentatus			S5	4 Secure	
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
											Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
											Great Black-backed Gull	Larus marinus			S5	4 Secure	
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
											Mourning Dove	Zenaidra macroura			S5B,S5M,S	4 Secure	Breeding
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
											Great Horned Owl	Bubo virginianus			S4	4 Secure	
											Barred Owl	Strix varia			S5	4 Secure	
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
											Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
											Ruby-throated Hummingb	Archilochus colubris			S5B,S5M	4 Secure	Breeding

											Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding	
		1	1							1	Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding	
	1	1									Downy Woodpecker	Dryobates pubescens			S5	4 Secure		
											Hairy Woodpecker	Dryobates villosus			S5	4 Secure		
											Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure		
											Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding	
											Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding	
	1										Eastern Wood-Pewee	Contopus virens	SC	Special Conc	S4B,S4M	4 Secure	Breeding	
1											Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding	
											Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding	
											Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding	
											Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding	
											Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding	
											Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding	
											Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding	
											Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding	
											Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding	
1	2				1					2	American Crow	Corvus brachyrhynchos			S5	4 Secure		
										2	Common Raven	Corvus corax			S5	4 Secure		
	1					1	2	1	1	2	Blue Jay	Cyanocitta cristata			S5	4 Secure		
											Canada Jay	Perisoreus canadensis			S4	4 Secure		
1	2	1			1					3	Black-capped Chickadee	Poecile atricapillus			S5	4 Secure		
											Boreal Chickadee	Poecile hudsonicus			S4	4 Secure		
	1	1	1			1				1	Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure		
										1	White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure		
											Brown Creeper	Certhia americana			S5	4 Secure		
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding	
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding	
										1	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding	
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding	
										1	Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding	
	1										Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure		
	1	1	1							2	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding	
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding	
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding	
1	2	4									Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding	
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non	
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non	
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic	
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding	
1											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding	
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding	
											Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding	
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding	
											Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding	
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding	
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding	
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure		
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding	
											Rusty Blackbird	Euphagus carolinus	SC	Special Conc	S3B,S3M	2 May Be	Breeding	
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding	
1		2									Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding	
	1	1			2			1	4	1	2	Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding	
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding	

1			1	1						Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
										Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
										Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be	Breeding
										Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
										Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
										Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
										Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
										Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
										Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
										Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
										Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
	1									Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
										Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
										Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
										Black-throated Blue Warbler	Setophaga caerulea			S5B,S5M	4 Secure	Breeding
										Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
				1						Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
										Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
										Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
			1		1					Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
										Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
										Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
								1		Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
										American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
										Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
										Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
										Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
										Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
										American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
2	1		1		1	1	3	3	1	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
										White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
										Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
										Evening Grosbeak	Coccothraustes vespertina	SC		S3B,S3S4N	3 Sensitive	Breeding
										Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
										Red Crossbill	Loxia curvirostra			S3	4 Secure	
										White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
										Pine Grosbeak	Pinicola enucleator			S2B,S4S5N	3 Sensitive	Breeding
								2		Pine Siskin	Spinus pinus			S3	4 Secure	
		1								American Goldfinch	Spinus tristis			S5	4 Secure	
										House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
	2						4	1		Warbler Spp.						
				1					2	Passerine Spp.						

TABLE 56 FALL PC#7

9:48 AM	8:53 AM	7:15 AM	9:37 AM	10:06 AM	7:28 AM	9:55 AM	7:46 AM	7:55 AM	8:11 AM	10:12 AM							
20° C		11° C	15° C	12° C	5° C	17° C	2° C	5° C	3° C	9° C							
Wind: 2	Wind: 0	Wind: 1	Wind: 3	Wind: 2-3	Wind: 2-3	Wind: 2-3	Wind: 1	Wind: 1	Wind: 2	Wind: 3							
CC 100%	CC 0%	CC 40%	CC 10%	CC 100%	CC 0%	CC 70%	CC 10%	CC 90%	CC 70%	CC 70%							
Overcast,	Sunny	Clear	Sunny	Cloudy	Sunny	Cloudy	Sunny	Overcast	Cloudy	Cloudy							
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct							
											Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
											Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
											Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
											Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
											American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
											Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
											Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
						1					Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
											Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
											Northern Harrier	Circus hudsonius	NAR		S4B,S4S5N	4 Secure	Breeding
											Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
					1						American Kestrel	Falco sparverius			S4B,S4S5N	4 Secure	Breeding
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
											Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bree
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
											Herring Gull	Larus argentatus			S5	4 Secure	
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
											Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
											Great Black-backed Gull	Larus marinus			S5	4 Secure	
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
											Mourning Dove	Zenaid macroura			S5B,S5M,S	4 Secure	Breeding
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
											Great Horned Owl	Bubo virginianus			S4	4 Secure	
											Barred Owl	Strix varia			S5	4 Secure	
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
											Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2N	1 At Risk	Breeding
											Ruby-throated Hummingb	Archilochus colubris			S5B,S5M	4 Secure	Breeding

										Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding		
		2	1	2						Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding		
						1	1			Downy Woodpecker	Dryobates pubescens			S5	4 Secure			
									1	Hairy Woodpecker	Dryobates villosus			S5	4 Secure			
										Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure			
										Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding		
										Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding		
										Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding		
										Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding		
										Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding		
										Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding		
										Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding		
										Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding		
										Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding		
										Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding		
										Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding		
										Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding		
			2							American Crow	Corvus brachyrhynchos			S5	4 Secure			
										Common Raven	Corvus corax			S5	4 Secure			
									2	Blue Jay	Cyanocitta cristata			S5	4 Secure			
										Canada Jay	Perisoreus canadensis			S4	4 Secure			
		2							3	Black-capped Chickadee	Poecile atricapillus			S5	4 Secure			
		1								Boreal Chickadee	Poecile hudsonicus			S4	4 Secure			
				1					1	Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure			
										White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure			
										Brown Creeper	Certhia americana			S5	4 Secure			
										Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding		
										Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding		
									1	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding		
										Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding		
							1		1	Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding		
									1	2	Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure		
							2		2	1	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding	
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding	
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding	
1		2									Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding	
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non	
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non	
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic	
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding	
											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding	
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding	
										1	Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding	
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding	
											Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding	
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding	
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding	
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure		
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding	
											Rusty Blackbird	Euphagus carolinus	SC	Special Concern	S3B,S3M	2 May Be	Breeding	
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding	
			3								Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding	
				2							3	Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
												Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
												Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding



											Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be	Breeding
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
				1							Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5N	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caeruleus			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5N	4 Secure	Breeding
	6	1	3		4		1	1			Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
		1									Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
	9	5	1		1	1	2				Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
							1				Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
				1							American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5N	4 Secure	Breeding
		1	3		1						Cape May Warbler	Setophaga tigrina			S3B,S4S5N	4 Secure	Breeding
	1	1		1							Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
	2	1	2	9	3	3	10	8	2	3	White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertina SC			S3B,S3S4N	3 Sensitive	Breeding
	1										Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
		3									Red Crossbill	Loxia curvirostra			S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	
								5			American Goldfinch	Spinus tristis			S5	4 Secure	
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
	2	3	2		1						Warbler Spp.						
				3		4					Passerine Spp.						

TABLE 57 FALL PC#8

10:06 AM	9:10 AM	6:58 AM	9:56 AM	10:21 AM	7:14 AM	10:09 AM	7:32 AM	7:40 AM	7:56 AM	10:26 AM							
20° C		11° C	15° C	13° C	4° C	17° C	2° C	5° C	3° C	9° C							
Wind: 1	Wind:0-1	Wind: 2	Wind: 3-4	Wind: 2	Wind: 1-2	Wind: 2	Wind: 1	Wind: 1	Wind: 2	Wind: 3							
CC 100%	CC 0%	CC 30%	CC%	CC 90%	CC 0%	CC 80%	CC 20%	CC 90%	CC 80%	CC 70%							
Overcast,	Sunny	Sunny	Sunny	Cloudy	Sunny	Cloudy	Sunny	Overcast	Overcast	Cloudy							
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
											Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
											Double-crested Cormoran	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
											Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
											Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
											American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
											Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
											Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
											Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
											Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
											Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
											Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
											American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
											Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bree
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
											Herring Gull	Larus argentatus			S5	4 Secure	
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
											Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
											Great Black-backed Gull	Larus marinus			S5	4 Secure	
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
											Mourning Dove	Zenaida macroura			S5B,S5M,S	4 Secure	Breeding
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
											Great Horned Owl	Bubo virginianus			S4	4 Secure	
											Barred Owl	Strix varia			S5	4 Secure	
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
											Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
	2										Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding

											Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
1		1		1		1					Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
											Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
											Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
											Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
											Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
											Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
											Eastern Wood-Pewee	Contopus virens	SC	Special Conce	S4B,S4M	4 Secure	Breeding
											Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
											Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
											Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
											Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
											Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S	3 Sensitive	Breeding
											Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
											Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S	3 Sensitive	Breeding
											Bank Swallow	Riparia riparia	T		S2S3B,S2S	3 Sensitive	Breeding
											Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
			1					1		1	American Crow	Corvus brachyrhynchos			S5	4 Secure	
						3					Common Raven	Corvus corax			S5	4 Secure	
								1		2	Blue Jay	Cyanocitta cristata			S5	4 Secure	
											Canada Jay	Perisoreus canadensis			S4	4 Secure	
				2		1	1			3	Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
										1	Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
											Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
											Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
								1		2	Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
							2	3			American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
1		2									Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
1											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
										1	Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Conce	S3B,S3M	2 May Be	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
											Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
		2		1				2			Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding

											Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be	Breeding
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding
											Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parquesia noveboracensis			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
				1							Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warb	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
	2									1	Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
											Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
	1			1							American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
				1							Black-throated Green War	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
			1	1	2	1	3	3			White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespert	SC		S3B,S3S4N	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus			S4S5B,SUN	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra			S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	
											American Goldfinch	Spinus tristis			S5	4 Secure	
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
	4					2					Warbler Spp.						

TABLE 58 FALL PC#9

7:54 AM	7:18 AM	9:13 AM	7:54 AM	8:12 AM	9:28 AM	8:10 AM	9:39 AM	9:45 AM	10:09 AM	8:40 AM							
19° C	16° C		11° C	10° C	10° C	14° C	5° C	7° C	6° C	6° C							
Wind:2-3	Wind: 2	Wind: 1	Wind: 3-4	Wind: 2-3	Wind: 2-3	Wind: 1-2	Wind: 2-3	Wind: 1	Wind: 2-3	Wind: 2-3							
CC 90%	CC 5%	CC 70%	CC 60%	CC 100%	CC 0%	CC 30%	CC 10%	CC 90%	CC 50%	CC 90%							
Overcast,	Sunny	Sun and C	Sun comin	Cloudy	Sunny	Clearing	Sunny	Overcast	Cloudy	Clearing							
22-Aug	28-Aug	04-Sep	05-Sep	12-Sep	13-Sep	29-Sep	30-Sep	01-Oct	10-Oct	11-Oct							
											Common Loon	Gavia immer	NAR		S4B,S4M,S	4 Secure	Breeding
											Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
											Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
											Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
											Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
											Mallard	Anas platyrhynchos			S5B,S4N,S	4 Secure	Breeding
											American Black Duck	Anas rubripes			S5B,S4N,S	4 Secure	Breeding
											Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
											Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
											Common Merganser	Mergus merganser			S5B,S4N,S	4 Secure	Breeding
											Red-breasted Merganser	Mergus serrator			S3B,S5M,S	4 Secure	Breeding
											Common Eider	Somateria mollissima			S3B,S4M,S	4 Secure	Breeding
											Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
											Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
											Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
											Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
											Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
											Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
											Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
											Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
											Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
											American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
											Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
											Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
											Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
											Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
											Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
											Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
											Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
											Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
											American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
											Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
											Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bree
											Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
											Herring Gull	Larus argentatus			S5	4 Secure	
											Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
											Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
											Great Black-backed Gull	Larus marinus			S5	4 Secure	
											Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
											Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
											Mourning Dove	Zenaida macroura			S5B,S5M,S	4 Secure	Breeding
											Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
											Great Horned Owl	Bubo virginianus			S4	4 Secure	
											Barred Owl	Strix varia			S5	4 Secure	
											Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
											Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
											Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding

										Belted Kingfisher	Megasceryle alcyon				S5B,S5M	4 Secure	Breeding
1	2	1	1		1	3	1	1	1	Northern Flicker	Colaptes auratus				S5B,S5M	4 Secure	Breeding
										Downy Woodpecker	Dryobates pubescens				S5	4 Secure	
	1									Hairy Woodpecker	Dryobates villosus				S5	4 Secure	
										Pileated Woodpecker	Dryocopus pileatus				S5	4 Secure	
										Yellow-bellied Sapsucker	Sphyrapicus varius				S5B,S5M	4 Secure	Breeding
										Olive-sided Flycatcher	Contopus cooperi	SC	Threatened		S3B,S3M	1 At Risk	Breeding
										Eastern Wood-Pewee	Contopus virens	SC	Special Conce		S4B,S4M	4 Secure	Breeding
										Alder Flycatcher	Empidonax alnorum				S5B,S5M	4 Secure	Breeding
										Yellow-bellied Flycatcher	Empidonax flaviventris				S4S5B,S5M	4 Secure	Breeding
										Least Flycatcher	Empidonax minimus				S5B,S5M	4 Secure	Breeding
										Eastern Phoebe	Sayornis phoebe				S5B,S5M	4 Secure	Breeding
										Eastern Kingbird	Tyrannus tyrannus				S3S4B,S3S	3 Sensitive	Breeding
										Barn Swallow	Hirundo rustica	T	Threatened		S2B,S2M	3 Sensitive	Breeding
										Cliff Swallow	Petrochelidon pyrrhonota				S2S3B,S2S	3 Sensitive	Breeding
										Bank Swallow	Riparia riparia	T			S2S3B,S2S	3 Sensitive	Breeding
										Tree Swallow	Tachycineta bicolor				S4B,S4M	4 Secure	Breeding
1		2	1						1	1	American Crow	Corvus brachyrhynchos			S5	4 Secure	
						1	1	1			Common Raven	Corvus corax			S5	4 Secure	
			1			2		1			Blue Jay	Cyanocitta cristata			S5	4 Secure	
											Canada Jay	Perisoreus canadensis			S4	4 Secure	
	1	2									Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
		1									Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
		1	1			1			1		Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
1	1									1	Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
											Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
1	2				3	4	4	4	2		American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
							3				Cedar Waxwing	Bombcilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombcilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
	1										Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
					1	1		1	1		Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Conce	S3B,S3M	2 May Be	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
2		2	1			1					Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
										2	Dark-eyed Junco	Junco hyemalis			S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding



											Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding				
											Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding				
											Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be	Breeding				
											Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding				
				1		1					Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding				
											Northern Waterthrush	Parlesia noveboracensis			S4B,S5M	4 Secure	Breeding				
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding				
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding				
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding				
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding				
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non				
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding				
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding				
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding				
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding				
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding				
	1		1		2		1		2		2		1	Yellow-rumped Warbler	Setophaga coronata		S5B,S5M	4 Secure	Breeding		
														Blackburnian Warbler	Setophaga fusca		S5B,S5M	4 Secure	Breeding		
							1							Magnolia Warbler	Setophaga magnolia		S5B,S5M	4 Secure	Breeding		
		2		3				1	2		1			Palm Warbler	Setophaga palmarum		S5B,S5M	4 Secure	Breeding		
														Chestnut-sided Warbler	Setophaga pensylvanica		S5B,S5M	4 Secure	Breeding		
														Yellow Warbler	Setophaga petechia		S5B,S5M	4 Secure	Breeding		
													2	Pine Warbler	Setophaga pinus		S5B,S5M	4 Secure	Breeding		
														American Redstart	Setophaga ruticilla		S5B,S5M	4 Secure	Breeding		
														Blackpoll Warbler	Setophaga striata		S3S4B,S5M	4 Secure	Breeding		
														Cape May Warbler	Setophaga tigrina		S3B,S4S5M	4 Secure	Breeding		
							2		1					Black-throated Green Warbler	Setophaga virens		S5B,S5M	4 Secure	Breeding		
														Chipping Sparrow	Spizella passerina		S5B,S5M	4 Secure	Breeding		
														American Tree Sparrow	Spizelloides arborea		S5N,S5M	4 Secure	Non		
	1				3		2		6		4		4	2	White-throated Sparrow	Zonotrichia albicollis		S5B,S5M	4 Secure	Breeding	
															White-crowned Sparrow	Zonotrichia leucophrys		S4M	4 Secure	Transient	
															Common Redpoll	Acanthis flammea		S5N,S5M	4 Secure	Non	
															Evening Grosbeak	Coccothraustes vespertina	SC	S3B,S3S4N	3 Sensitive	Breeding	
															Purple Finch	Haemorhous purpureus		S4S5B,SUN	4 Secure	Breeding	
															Red Crossbill	Loxia curvirostra		S3	4 Secure		
															White-winged Crossbill	Loxia leucoptera		S5	4 Secure		
															Pine Grosbeak	Pinicola enucleator		S2B,S4S5N	3 Sensitive	Breeding	
															Pine Siskin	Spinus pinus		S3	4 Secure		
											1			2	American Goldfinch	Spinus tristis		S5	4 Secure		
															House Sparrow	Passer domesticus		SNA	7 Exotic	Exotic	
		3				3									5	Passerine Spp.					

TABLE 59 FALL WC#1.1

10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM							
20° C	21° C	21° C	21° C	22° C														
Wind: 2-3 W	Wind: 2 NW	Wind: 2 W	Wind: 3 NW	Wind: 3	Wind: 2-3	Wind: 2-3 W	Wind: 3-4	Wind: 2-3	Wind: 3-4	Wind: 3-4 W	Wind: 3-4 NW							
CC 80%	CC 80%	CC 70%	CC 60%	CC 30%	CC 30%	CC 20%	CC 30%	CC 20%	CC 10%	CC 20%	CC 20%							
Overcast	Overcast	Sun & Cloud	Sun & Cloud	Sunny	Sunny	Sunny	Sunny, Hot	Sunny, Hot	Sunny	Sunny	Sunny							
22-Aug	22-Aug	22-Aug	22-Aug	22-Aug	22-Aug	22-Aug	22-Aug	22-Aug	22-Aug	22-Aug	22-Aug	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
					2 soaring W of T10 >150m	1 flying around T8, T9 and T10 50-150m						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
										1 flying between WC and T8, T9 and T10 <50m		Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bre
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	

												Hairy Woodpecker	Dryobates villosus			S5	4 Secure							
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure							
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding						
											Perched near pines @ WC site	Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding						
												Eastern Wood-Pewee	Contopus virens	SC	Special Conce	S4B,S4M	4 Secure	Breeding						
											A dive around WC site <50m	Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding						
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding						
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding						
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding						
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding						
												Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding						
												Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding						
												Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding						
												Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding						
												American Crow	Corvus brachyrhynchos			S5	4 Secure							
												1 over hallow 50-150m	Common Raven	Corvus corax			S5	4 Secure						
												Blue Jay	Cyanocitta cristata			S5	4 Secure							
												Canada Jay	Perisoreus canadensis			S4	4 Secure							
												Black-capped Chickadee	Poecile atricapillus			S5	4 Secure							
												Boreal Chickadee	Poecile hudsonicus			S4	4 Secure							
												Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure							
												White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure							
												Brown Creeper	Certhia americana			S5	4 Secure							
												Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding						
												Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding						
												Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding						
												Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding						
												Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding						
												Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure							
												3 fly over WC site <50m	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding					
												Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding						
												Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding						
												3 around WC site <50m	5 fly by WC <50m. 3 active at WC site <50m	1 Fly over WC site <50m	3 fly by WC <50m	3 active around WC <50m	3 hawking insects from nearby trees	Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
												Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non						
												Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non						
												European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic						
												Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding						
												Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding						
												Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding						
												Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding						
												Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding						
												Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding						
												Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding						
												Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding						
												Northern Cardinal	Cardinalis cardinalis			S4	4 Secure							
												Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding						
												Rusty Blackbird	Euphagus carolinus	SC	Special Conce	S3B,S3M	2 May Be At F	Breeding						
												Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding						
												Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding						
												Dark-eyed Junco	Junco hyemalis			S5	4 Secure							
												Swamp Sparrow	Melospiza georgiana			S5B,S5M	4 Secure	Breeding						
												Lincoln's Sparrow	Melospiza lincolni			S4B,S5M	4 Secure	Breeding						
												Song Sparrow	Melospiza melodia			S5B,S5M	4 Secure	Breeding						
												Black-and-White Warbler	Mniotilta varia			S5B,S5M	4 Secure	Breeding						
												Brown-headed Cowbird	Molothrus ater			S3B,S3M	2 May Be At F	Breeding						
												Tennessee Warbler	Oreothlypis peregrina			S4B,S5M	4 Secure	Breeding						

											Nashville Warbler	Oreothlypis ruficapilla			S5B,S5M	4 Secure	Breeding	
											Northern Waterthrush	Parkesia noveboracensis			S4B,S5M	4 Secure	Breeding	
											Savannah Sparrow	Passerculus sandwichensis			S4S5B,S5M	4 Secure	Breeding	
											Fox Sparrow	Passerella iliaca			S4B,S5M	4 Secure	Breeding	
											Rose-breasted Grosbeak	Pheucticus ludovicianus			S4B,S4M	3 Sensitive	Breeding	
											Scarlet Tanager	Piranga olivacea			S3B,S3M	4 Secure	Breeding	
											Snow Bunting	Plectrophenax nivalis			S5N,S5M	4 Secure	Non	
											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding	
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding	
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding	
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding	
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding	
											Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding	
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding	
											Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding	
											Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding	
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding	
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding	
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding	
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding	
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding	
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding	
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding	
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding	
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non	
											White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding	
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient	
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non	
											Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SU	3 Sensitive	Breeding	
											Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5M	4 Secure	Breeding	
											Red Crossbill	Loxia curvirostra			S3	4 Secure		
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure		
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S	3 Sensitive	Breeding	
											Pine Siskin	Spinus pinus			S3	4 Secure		
											American Goldfinch	Spinus tristis			S5	4 Secure		
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic	
						2 fly by WC 50-150m	2 fly over 50-150m				Passerine Spp.							
									1		Warbler Spp.							
						1 soaring W of T10					Bueto Spp.							

TABLE 60 FALL WC#1.2

9:45 AM	10:15 AM	10:45 AM	11:15 AM	11:45 AM	12:15 PM	12:45 PM	1:15 PM	1:45 PM	2:15 PM	2:45 PM	3:15 PM							
20° C	20° C																	
Wind: 1-2 W	Wind: 1-2 W	Wind: 1 W	Wind: 1	Wind: 1 NW	Wind: 0-1 NW	Wind: 1-2 N	Wind: 1-2	Wind: 1 W	Wind: 2-3 W	Wind: 3-4	Wind: 3-4							
CC 0%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%	CC 5%	CC 0%	CC 0%	CC 0%	CC 0%							
Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny							
28-Aug	28-Aug	28-Aug	28-Aug	28-Aug	28-Aug	28-Aug	28-Aug	28-Aug	28-Aug	28-Aug	28-Aug	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
							1 Gaining altitude near T10	2 soaring NW of T10			1 flying across study area 50-150m	Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
1 perched near WC site												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Br
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaidura macroura			S5B,S5M,S4N	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
			1 attracted to bright vehicle									Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
	Flew across WC site <50m											Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding







	2 active in nearby pine stand										Pine Warbler	Setophaga pinus			\$5B,\$5M	4 Secure	Breeding	
											American Redstart	Setophaga ruticilla			\$5B,\$5M	4 Secure	Breeding	
											Blackpoll Warbler	Setophaga striata			\$3S4B,\$5M	4 Secure	Breeding	
											Cape May Warbler	Setophaga tigrina			\$3B,\$4S5M	4 Secure	Breeding	
											Black-throated Green Warbler	Setophaga virens			\$5B,\$5M	4 Secure	Breeding	
											Chipping Sparrow	Spizella passerina			\$5B,\$5M	4 Secure	Breeding	
											American Tree Sparrow	Spizelloides arborea			\$5N,\$5M	4 Secure	Non	
							1 around WC <50m				White-throated Sparrow	Zonotrichia albicollis			\$5B,\$5M	4 Secure	Breeding	
											White-crowned Sparrow	Zonotrichia leucophrys			\$4M	4 Secure	Transient	
											Common Redpoll	Acanthis flammea			\$5N,\$5M	4 Secure	Non	
											Evening Grosbeak	Coccothraustes vespertinus	SC		\$3B,\$3S4N,\$UM	3 Sensitive	Breeding	
											Purple Finch	Haemorhous purpureus			\$4S5B,\$UN,\$5M	4 Secure	Breeding	
											Red Crossbill	Loxia curvirostra			\$3	4 Secure		
											White-winged Crossbill	Loxia leucoptera			\$5	4 Secure		
											Pine Grosbeak	Pinicola enucleator			\$2B,\$4S5N,\$4S5M	3 Sensitive	Breeding	
											Pine Siskin	Spinus pinus			\$3	4 Secure		
											American Goldfinch	Spinus tristis			\$5	4 Secure		
											House Sparrow	Passer domesticus			\$NA	7 Exotic	Exotic	
			1 <50m between WC & Study Area		4 over hollow flying S to N, 50-150m. 1 between WC and study area <50m					1 out of hollow, 50-150 m going NW		1 out of hollow, <50m SW						
				1 @ WC					1 between WC and Study Area 50-150m				Warbler Spp.					
								2 seen flying over T8 and T10, 50-150m						Bueto Spp.				
					1 <50m in between WC and Study Area								Falcon					
				6 @ 50-150m									Shorebirds					

TABLE 61 FALL WC#1.3

10:15 AM	10:45 AM	11:15 AM	11:45 AM	12:15 PM	12:45 PM	1:15 PM	1:45 PM	2:15 PM	2:45 PM	3:15 PM	3:45 PM								
19° C	20° C	20° C	20° C	21° C	22° C	21° C	22° C	22° C	22° C	22° C	22° C								
Wind: 2 S	Wind: 2 S	Wind: 2	Wind: 1-2 S	Wind: 2 S	Wind: 3-4 S, G	Wind: 3-4 SW	Wind: 4-5	Wind: 4-5 S	Wind: 3-4 SE	Wind: 4-5	Wind: 4-5								
CC 50%	CC 40%	CC 30%	CC 30%	CC 20%	CC 10%	CC 20%	CC 10%	CC 0%	CC 5%	CC 5%	CC 5%								
Sun & Clouds	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny								
04-Sep	04-Sep	04-Sep	04-Sep	04-Sep	04-Sep	04-Sep	04-Sep	04-Sep	04-Sep	04-Sep	04-Sep	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank	
												Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding	
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding	
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non	
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding	
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding	
												Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding	
												American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding	
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding	
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding	
												Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding	
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5M	4 Secure	Breeding	
												Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding	
	1 soared over Study Area flying N to S				2 flying between T9 and T10 at 50-150 m, and <50m by T10	Soared out of hollow between WC and Study area.					1 Flew over WC, heading NE >150m		Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure		
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding	
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure		
1 between WC & Turbine Site >150m								1 rose up near T10, travelled across site				Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding	
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding	
					Juvenile, 1 soaring SW of T10 >150m	Adult, flying SW of T10		Adult, flying in hollow 50-150m			2 Adults 1km W of T10	Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk		
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding	
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding	
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding	
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure		
												Spruce Grouse	Falciptennis canadensis			S5	4 Secure		
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic	
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding	
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding	
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding	
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding	
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding	
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding	
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient	
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Br	
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient	
												Herring Gull	Larus argentatus			S5	4 Secure		
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding	
												Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non	
												Great Black-backed Gull	Larus marinus			S5	4 Secure		
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding	
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic	
												Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding	
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding	
												Great Horned Owl	Bubo virginianus			S4	4 Secure		
												Barred Owl	Strix varia			S5	4 Secure		
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding	
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding	
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding	
												Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding	

		Flew over hollow							1 NW of T10 <50m over site	Northern Flicker	Colaptes auratus				S5B,S5M	4 Secure	Breeding
										Downy Woodpecker	Dryobates pubescens				S5	4 Secure	
										Hairy Woodpecker	Dryobates villosus				S5	4 Secure	
										Pileated Woodpecker	Dryocopus pileatus				S5	4 Secure	
										Yellow-bellied Sapsucker	Sphyrapicus varius				S5B,S5M	4 Secure	Breeding
										Olive-sided Flycatcher	Contopus cooperi	SC	Threatened		S3B,S3M	1 At Risk	Breeding
										Eastern Wood-Pewee	Contopus virens	SC	Special Conce		S4B,S4M	4 Secure	Breeding
										Alder Flycatcher	Empidonax alnorum				S5B,S5M	4 Secure	Breeding
										Yellow-bellied Flycatcher	Empidonax flaviventris				S4S5B,S5M	4 Secure	Breeding
										Least Flycatcher	Empidonax minimus				S5B,S5M	4 Secure	Breeding
										Eastern Phoebe	Sayornis phoebe				S5B,S5M	4 Secure	Breeding
										Eastern Kingbird	Tyrannus tyrannus				S3S4B,S3S4M	3 Sensitive	Breeding
										Barn Swallow	Hirundo rustica	T	Threatened		S2B,S2M	3 Sensitive	Breeding
										Cliff Swallow	Petrochelidon pyrrhonota				S2S3B,S2S3M	3 Sensitive	Breeding
										Bank Swallow	Riparia riparia	T			S2S3B,S2S3M	3 Sensitive	Breeding
										Tree Swallow	Tachycineta bicolor				S4B,S4M	4 Secure	Breeding
					2 over WC towards T8 50-150m				1 out of hollow <50m towards WC	American Crow	Corvus brachyrhynchos				S5	4 Secure	
									1 >150m W of T10	Common Raven	Corvus corax				S5	4 Secure	
									2 <50m near WC	Blue Jay	Cyanocitta cristata				S5	4 Secure	
										Canada Jay	Perisoreus canadensis				S4	4 Secure	
										Black-capped Chickadee	Poecile atricapillus				S5	4 Secure	
										Boreal Chickadee	Poecile hudsonicus				S4	4 Secure	
		1 over WC area								Red-breasted Nuthatch	Sitta canadensis				S5	4 Secure	
										White-breasted Nuthatch	Sitta carolinensis				S4	4 Secure	
										Brown Creeper	Certhia americana				S5	4 Secure	
										Winter Wren	Troglodytes hiemalis				S5B,S5M	4 Secure	Breeding
										Veery	Catharus fuscescens				S4B,S4M	4 Secure	Breeding
										Hermit Thrush	Catharus guttatus				S5B,S5M	4 Secure	Breeding
										Swainson's Thrush	Catharus ustulatus				S5B,S5M	4 Secure	Breeding
										Ruby-crowned Kinglet	Regulus calendula				S4B,S5M	4 Secure	Breeding
										Golden-crowned Kinglet	Regulus satrapa				S5	4 Secure	
										American Robin	Turdus migratorius				S5B,S5M	4 Secure	Breeding
										Gray Catbird	Dumetella carolinensis				S4B,S4M	4 Secure	Breeding
										Northern Mockingbird	Mimus polyglottos				S2B,S2M	3 Sensitive	Breeding
3 @ WC Site					2 over WC area <50m				1 @ WC >50-150m	Cedar Waxwing	Bombycilla cedrorum				S5B,S5M	4 Secure	Breeding
										Bohemian Waxwing	Bombycilla garrulus				S5N,S5M	4 Secure	Non
										Northern Shrike	Lanius borealis				S4N,S4M	4 Secure	Non
										European Starling	Sturnus vulgaris				SNA	7 Exotic	Exotic
										Warbling Vireo	Vireo gilvus				S3B,S3M	4 Secure	Breeding
										Red-eyed Vireo	Vireo olivaceus				S5B,S5M	4 Secure	Breeding
										Philadelphia Vireo	Vireo philadelphicus				S5B,S5M	4 Secure	Breeding
										Blue-headed Vireo	Vireo solitarius				S5B,S5M	4 Secure	Breeding
										Red-winged Blackbird	Agelaius phoeniceus				S4B,S4M	4 Secure	Breeding
										Nelson's Sparrow	Ammospiza nelsoni	NAR			S4B,S4M	4 Secure	Breeding
										Canada Warbler	Cardellina canadensis	T	Threatened		S3B,S3M	1 At Risk	Breeding
										Wilson's Warbler	Cardellina pusilla				S4B,S5M	4 Secure	Breeding
										Northern Cardinal	Cardinalis cardinalis				S4	4 Secure	
										Bobolink	Dolichonyx oryzivorus	T	Threatened		S3B,S3M	3 Sensitive	Breeding
										Rusty Blackbird	Euphagus carolinus	SC	Special Conce		S3B,S3M	2 May Be At	Breeding
										Mourning Warbler	Geothlypis philadelphia				S4B,S5M	4 Secure	Breeding
										Common Yellowthroat	Geothlypis trichas				S5B,S5M	4 Secure	Breeding
										Dark-eyed Junco	Junco hyemalis				S5	4 Secure	
										Swamp Sparrow	Melospiza georgiana				S5B,S5M	4 Secure	Breeding
										Lincoln's Sparrow	Melospiza lincolni				S4B,S5M	4 Secure	Breeding
										Song Sparrow	Melospiza melodia				S5B,S5M	4 Secure	Breeding
										Black-and-White Warbler	Mniotilta varia				S5B,S5M	4 Secure	Breeding
										Brown-headed Cowbird	Molothrus ater				S3B,S3M	2 May Be At	Breeding
										Tennessee Warbler	Oreothlypis peregrina				S4B,S5M	4 Secure	Breeding



TABLE 62 FALL WC#1.4

10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM							
16° C	16° C	17° C	18° C	19° C	19° C	20° C	20° C	21° C	21° C	21° C	21° C							
Wind: 3	Wind: 3 N	Wind: 3	Wind: 3-4 NE	Wind: 3 N	Wind: 3 N	Wind: 2-3 N	Wind: 2-3 N	Wind: 2-3 NE	Wind: 2 N	Wind: 2-3	Wind: 2-3 N							
CC 5%	CC 0%	CC 5%	CC 10%	CC 10%	CC 10%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%	CC 0%							
Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny							
05-Sep	05-Sep	05-Sep	05-Sep	05-Sep	05-Sep	05-Sep	05-Sep	05-Sep	05-Sep	05-Sep	05-Sep	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						1 W of T10 soaring >150m						Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platyterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
								Juvenile soaring NE of T8 >150m				Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falci pennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaidura macroura			S5B,S5M,S4N	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding
								Active at WC site <50m				Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Concer	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding

- Incidentals**  
 Blue Jay  
 White-throated Sparr  
 Yellow-rumped Warbl  
 Northern Flicker  
 American Kestrel  
 Downy Woodpecker  
 American Redstart  
 Nashville Warbler  
 Black-and-White Warl  
 Black-thoated Green \n  
 Northern Parula  
 Chimney Swift





											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warb	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
											White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertinus	SC		S3B,S3S4N,SUN	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5N	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra			S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	
											American Goldfinch	Spinus tristis			S5	4 Secure	
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
			1 local movement <50m @ WC			2 local movement <50m			4 flying over hollow E 50-150m	3 flyover <50m @ WC	Passerine Spp.						
		1 local movement <50m @ WC		1 local movement <50m near WC							Warbler Spp.						
				1 soaring high, W of T10 >150m							Bueto Spp.						

TABLE 63 FALL WC#1.5

10:50 AM	11:20 AM	11:50 AM	12:20 PM	12:50 PM	1:20 PM	1:50 PM	2:20 PM	2:50 PM	3:20 PM	3:50 PM	4:20 PM							
13° C	13° C	13° C	13° C	13° C	13° C	14° C	14° C											
Wind: 2	Wind: 2	Wind: 2	Wind: 1-2	Wind: 1-2	Wind: 2	Wind: 2-3	Wind: 2-3											
CC 100%	CC 90%	CC 90%	CC 90%	CC 80%	CC 50%	CC 50%	CC 50%											
Overcast	Overcast	Overcast	Overcast	Cloudy but clear	Sun & Cloud	Sun & Cloud	Sun & Cloud											
12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	12-Sep	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
								1 gaining altitude near T10 >150m				Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
1 @ WC pines												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcipennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus B
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
8 active around WC area		1 @ WC pines	1 @ WC pines									Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding

											Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
											Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
											Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
											Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
											Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
											Eastern Wood-Pewee	Contopus virens	SC	Special Conce	S4B,S4M	4 Secure	Breeding
											Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
											Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
											Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
											Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
											Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
											Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
											Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
											Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
											Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
											American Crow	Corvus brachyrhynchos			S5	4 Secure	
			2 perched at <50m on site nearest to T10								Common Raven	Corvus corax			S5	4 Secure	
											Blue Jay	Cyanocitta cristata			S5	4 Secure	
											Canada Jay	Perisoreus canadensis			S4	4 Secure	
											Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
											Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
											Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
											White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
											Brown Creeper	Certhia americana			S5	4 Secure	
											Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
											Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
											Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
											Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
											Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
											Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
											American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
											Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
											Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
											Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
											Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
											Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
											European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
											Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
											Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
											Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
											Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
											Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
											Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
											Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
											Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
											Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
											Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
											Rusty Blackbird	Euphagus carolinus	SC	Special Conce	S3B,S3M	2 May Be At	Breeding
											Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
											Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding

											Dark-eyed Junco	<i>Junco hyemalis</i>			S5	4 Secure	
											Swamp Sparrow	<i>Melospiza georgiana</i>			S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	<i>Melospiza lincolni</i>			S4B,S5M	4 Secure	Breeding
											Song Sparrow	<i>Melospiza melodia</i>			S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	<i>Mniotilta varia</i>			S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	<i>Molothrus ater</i>			S3B,S3M	2 May Be At	Breeding
											Tennessee Warbler	<i>Oreothlypis peregrina</i>			S4B,S5M	4 Secure	Breeding
											Nashville Warbler	<i>Oreothlypis ruficapilla</i>			S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	<i>Parkesia noveboracensis</i>			S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	<i>Passerculus sandwichensis</i>			S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	<i>Passerella iliaca</i>			S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>			S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	<i>Piranga olivacea</i>			S3B,S3M	4 Secure	Breeding
											Snow Bunting	<i>Plectrophenax nivalis</i>			S5N,S5M	4 Secure	Non
											Common Grackle	<i>Quiscalus quiscula</i>			S5B,S5M	4 Secure	Breeding
											Ovenbird	<i>Seiurus aurocapilla</i>			S5B,S5M	4 Secure	Breeding
											Northern Parula	<i>Setophaga americana</i>			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	<i>Setophaga caerulescens</i>			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	<i>Setophaga castanea</i>			S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	<i>Setophaga coronata</i>			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	<i>Setophaga fusca</i>			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	<i>Setophaga magnolia</i>			S5B,S5M	4 Secure	Breeding
											Palm Warbler	<i>Setophaga palmarum</i>			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	<i>Setophaga petechia</i>			S5B,S5M	4 Secure	Breeding
											Pine Warbler	<i>Setophaga pinus</i>			S5B,S5M	4 Secure	Breeding
											American Redstart	<i>Setophaga ruticilla</i>			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	<i>Setophaga striata</i>			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	<i>Setophaga tigrina</i>			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	<i>Setophaga virens</i>			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	<i>Spizella passerina</i>			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	<i>Spizelloides arborea</i>			S5N,S5M	4 Secure	Non
											White-throated Sparrow	<i>Zonotrichia albicollis</i>			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	<i>Zonotrichia leucophrys</i>			S4M	4 Secure	Transient
											Common Redpoll	<i>Acanthis flammea</i>			S5N,S5M	4 Secure	Non
											Evening Grosbeak	<i>Coccothraustes vespertina</i>	SC		S3B,S3S4N,SU	3 Sensitive	Breeding
											Purple Finch	<i>Haemorhous purpureus</i>			S4S5B,SUN,S5	4 Secure	Breeding
											Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
											White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
											Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S	3 Sensitive	Breeding
											Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
											American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
											House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic
											Passerine Spp.						
											Warbler Spp.						
											Bueto Spp.						

TABLE 64 FALL WC#1.6

10:45 AM	11:15 AM	11:45 AM	12:15 PM	12:45 PM	1:15 PM	1:45 PM	2:15 PM	2:45 PM	3:15 PM	3:45 PM	4:15 PM							
13° C	14° C	14° C	15° C	15° C	16° C	16° C	16° C	16° C	16° C	16° C	17° C							
Wind: 2-3 N	Wind: 2 N	Wind: 2-3 N	Wind: 2-3 N	Wind: 2 N	Wind: 2-3 NW	Wind: 2-3 NW	Wind: 2-3 NW	Wind: 2-3 N	Wind: 2-3 N	Wind: 1-2	Wind: 1-2 N							
CC 15%	CC 20%	CC 60%	CC 60%	CC 65%	CC 60%	CC 50%	CC 50%	CC 30-40%	CC 40%	CC 30%	CC 30%							
Sunny	Sunny	Sunny	Sun & Cloud	Sun & Cloud	Sun & Cloud	Sunny	Sunny	Sunny	Sun & Cloud	Sunny	Sunny							
13-Sep	13-Sep	13-Sep	13-Sep	13-Sep	13-Sep	13-Sep	13-Sep	13-Sep	13-Sep	13-Sep	13-Sep	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5N	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
												Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Bree
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaidura macroura			S5B,S5M,S4N	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megasceryle alcyon			S5B,S5M	4 Secure	Breeding
												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Conce	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding





											Common Grackle	Quiscalus quiscula			S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla			S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea			S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	Setophaga coronata			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia			S5B,S5M	4 Secure	Breeding
											Palm Warbler	Setophaga palmarum			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia			S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus			S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea			S5N,S5M	4 Secure	Non
											White-throated Sparrow	Zonotrichia albicollis			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys			S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea			S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertina	SC		S3B,S3S4N,SUN	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus			S4S5B,SUN,S5N	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra			S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera			S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator			S2B,S4S5N,S4S	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus			S3	4 Secure	
										2 over WC area <50m	American Goldfinch	Spinus tristis			S5	4 Secure	
											House Sparrow	Passer domesticus			SNA	7 Exotic	Exotic
											Passerine Spp.						
	2 flying over WC at <50m	1 flying into hollow from pines near WC 50-150m	2 flying N through hollow 50-150m				1 flying S over hollow 50-150m	1 flying S over WC at 50-150m. 1 flying near WC at <50m	1 local movement at WC		Warbler Spp.						
					5 gaining altitude over study area between T9 and T10						Bueto Spp.						

TABLE 65 FALL WC#1.7

10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM							
17° C	17° C	17° C	17° C	16° C	16° C	17° C	17° C	17° C	17° C	18° C	18° C							
Wind: 2	Wind: 2-3 W	Wind: 3 W,	Wind: 3-4	Wind: 3-4	Wind: 3 W	Wind: 3-4 W	Wind: 3 W	Wind: 3-4 W	Wind: 3-4 W	Wind: 4 W	Wind: 3-4							
CC 70%	CC 80%	CC 80%	CC 70%	CC 50%	CC 50%	CC 20%	CC 10%	CC 10%	CC 10%	CC 10%	CC 20%							
Sun & Cloud	Overcast	Overcast	Sun & Cloud	Sun & Cloud	Sun & Cloud	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny							
29-Sep	29-Sep	29-Sep	29-Sep	29-Sep	29-Sep	29-Sep	29-Sep	29-Sep	29-Sep	29-Sep	29-Sep	CommonName	ScientificName	N::NPROT	SProt	SRank	Sgsrank	noteRank
												Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
												Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
												Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
												Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
												Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
1 hunting low near WC (Possibly SSHA)	1 low hunting at WC				Flying at 50-150m at WC area							American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularia			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
												Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
												Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
												Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
												Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Cond	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding



											Ovenbird	<i>Seiurus aurocapilla</i>			S5B,S5M	4 Secure	Breeding
											Northern Parula	<i>Setophaga americana</i>			S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	<i>Setophaga caerulescens</i>			S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	<i>Setophaga castanea</i>			S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	<i>Setophaga coronata</i>			S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	<i>Setophaga fusca</i>			S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	<i>Setophaga magnolia</i>			S5B,S5M	4 Secure	Breeding
											Palm Warbler	<i>Setophaga palmarum</i>			S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5B,S5M	4 Secure	Breeding
											Yellow Warbler	<i>Setophaga petechia</i>			S5B,S5M	4 Secure	Breeding
											Pine Warbler	<i>Setophaga pinus</i>			S5B,S5M	4 Secure	Breeding
											American Redstart	<i>Setophaga ruticilla</i>			S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	<i>Setophaga striata</i>			S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	<i>Setophaga tigrina</i>			S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	<i>Setophaga virens</i>			S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	<i>Spizella passerina</i>			S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	<i>Spizelloides arborea</i>			S5N,S5M	4 Secure	Non
											White-throated Sparrow	<i>Zonotrichia albicollis</i>			S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	<i>Zonotrichia leucophrys</i>			S4M	4 Secure	Transient
											Common Redpoll	<i>Acanthis flammea</i>			S5N,S5M	4 Secure	Non
											Evening Grosbeak	<i>Coccothraustes vespertinus</i>	SC		S3B,S3S4N,SU	3 Sensitive	Breeding
						1 flying at WC <50m					Purple Finch	<i>Haemorhous purpureus</i>			S4S5B,SUN,S5	4 Secure	Breeding
											Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
											White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
											Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S	3 Sensitive	Breeding
											Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
											American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
											House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic
	1 over hollow 50-150m			1 flying near WC <50m	1 flying near WC at 50-150m	1 flying over WC 50-150m	1 at WC <50m				Passerine Spp.						
							1 at WC <50m				Warbler Spp.						
					1 gained altitude over T9				Gaining altitude over T9, 50-150m	Distant, behind T8 area, flying at >150m	Bueto Spp.						

TABLE 66 FALL WC#1.8

10:45 AM	11:15 AM	11:45 AM							
7° C	17° C	17° C							
Wind: 3 N	Wind: 2-3 W	Wind: 3 W, Gusts: 4							
CC 0%	CC 80%	CC 80%							
Sunny	Overcast	Overcast							
<b>30-Sep</b>	<b>30-Sep</b>	<b>30-Sep</b>	<b>CommonName</b>	<b>ScientificName</b>	<b>N::NPROT</b>	<b>SProt</b>	<b>SRank</b>	<b>Sgsrank</b>	<b>noteRank</b>
			Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
			Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
			Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
			Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
			Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
			Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
			American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
			Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
			Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
			Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
			Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5M	4 Secure	Breeding
			Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
			Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
			Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
			Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
			Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
			Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
			Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
			Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
			Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
			Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
			American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
			Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
			Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
			Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
			Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
			Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
			Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
			Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
			Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
			American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
			Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
			Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Breeding
			Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient

			Herring Gull	Larus argentatus			S5	4 Secure	
			Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
			Iceland Gull	Larus glaucoides			S4N,S4M	4 Secure	Non
			Great Black-backed Gull	Larus marinus			S5	4 Secure	
			Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
			Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
			Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
			Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
			Great Horned Owl	Bubo virginianus			S4	4 Secure	
			Barred Owl	Strix varia			S5	4 Secure	
			Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
			Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
			Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
			Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
			Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
			Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
			Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
			Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
			Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
			Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
			Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
			Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
			Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
			Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
			Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
			Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
			Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
			Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
			Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
			Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
			American Crow	Corvus brachyrhynchos			S5	4 Secure	
		2 soaring between T9 and T10 at >150m	Common Raven	Corvus corax			S5	4 Secure	
local movement at WC >50m going SE	3 flying SE at >150m	2 flying SE at 50-150m. 2 flying NW at >50m	Blue Jay	Cyanocitta cristata			S5	4 Secure	
			Canada Jay	Perisoreus canadensis			S4	4 Secure	
			Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
			Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	



			Red-breasted Nuthatch	<i>Sitta canadensis</i>			S5	4 Secure	
			White-breasted Nuthatch	<i>Sitta carolinensis</i>			S4	4 Secure	
			Brown Creeper	<i>Certhia americana</i>			S5	4 Secure	
			Winter Wren	<i>Troglodytes hiemalis</i>			S5B,S5M	4 Secure	Breeding
			Veery	<i>Catharus fuscescens</i>			S4B,S4M	4 Secure	Breeding
			Hermit Thrush	<i>Catharus guttatus</i>			S5B,S5M	4 Secure	Breeding
			Swainson's Thrush	<i>Catharus ustulatus</i>			S5B,S5M	4 Secure	Breeding
			Ruby-crowned Kinglet	<i>Regulus calendula</i>			S4B,S5M	4 Secure	Breeding
			Golden-crowned Kinglet	<i>Regulus satrapa</i>			S5	4 Secure	
			American Robin	<i>Turdus migratorius</i>			S5B,S5M	4 Secure	Breeding
			Gray Catbird	<i>Dumetella carolinensis</i>			S4B,S4M	4 Secure	Breeding
			Northern Mockingbird	<i>Mimus polyglottos</i>			S2B,S2M	3 Sensitive	Breeding
			Cedar Waxwing	<i>Bombycilla cedrorum</i>			S5B,S5M	4 Secure	Breeding
			Bohemian Waxwing	<i>Bombycilla garrulus</i>			S5N,S5M	4 Secure	Non
			Northern Shrike	<i>Lanius borealis</i>			S4N,S4M	4 Secure	Non
			European Starling	<i>Sturnus vulgaris</i>			SNA	7 Exotic	Exotic
			Warbling Vireo	<i>Vireo gilvus</i>			S3B,S3M	4 Secure	Breeding
			Red-eyed Vireo	<i>Vireo olivaceus</i>			S5B,S5M	4 Secure	Breeding
			Philadelphia Vireo	<i>Vireo philadelphicus</i>			S5B,S5M	4 Secure	Breeding
			Blue-headed Vireo	<i>Vireo solitarius</i>			S5B,S5M	4 Secure	Breeding
			Red-winged Blackbird	<i>Agelaius phoeniceus</i>			S4B,S4M	4 Secure	Breeding
			Nelson's Sparrow	<i>Ammospiza nelsoni</i>	NAR		S4B,S4M	4 Secure	Breeding
			Canada Warbler	<i>Cardellina canadensis</i>	T	Threatened	S3B,S3M	1 At Risk	Breeding
			Wilson's Warbler	<i>Cardellina pusilla</i>			S4B,S5M	4 Secure	Breeding
			Northern Cardinal	<i>Cardinalis cardinalis</i>			S4	4 Secure	
			Bobolink	<i>Dolichonyx oryzivorus</i>	T	Threatened	S3B,S3M	3 Sensitive	Breeding
			Rusty Blackbird	<i>Euphagus carolinus</i>	SC	Special Concern	S3B,S3M	2 May Be At R	Breeding
			Mourning Warbler	<i>Geothlypis philadelphia</i>			S4B,S5M	4 Secure	Breeding
			Common Yellowthroat	<i>Geothlypis trichas</i>			S5B,S5M	4 Secure	Breeding
			Dark-eyed Junco	<i>Junco hyemalis</i>			S5	4 Secure	
			Swamp Sparrow	<i>Melospiza georgiana</i>			S5B,S5M	4 Secure	Breeding
			Lincoln's Sparrow	<i>Melospiza lincolnii</i>			S4B,S5M	4 Secure	Breeding
			Song Sparrow	<i>Melospiza melodia</i>			S5B,S5M	4 Secure	Breeding
			Black-and-White Warbler	<i>Mniotilta varia</i>			S5B,S5M	4 Secure	Breeding
			Brown-headed Cowbird	<i>Molothrus ater</i>			S3B,S3M	2 May Be At R	Breeding
			Tennessee Warbler	<i>Oreothlypis peregrina</i>			S4B,S5M	4 Secure	Breeding
			Nashville Warbler	<i>Oreothlypis ruficapilla</i>			S5B,S5M	4 Secure	Breeding
			Northern Waterthrush	<i>Parkesia noveboracensis</i>			S4B,S5M	4 Secure	Breeding
			Savannah Sparrow	<i>Passerculus sandwichensis</i>			S4S5B,S5M	4 Secure	Breeding
			Fox Sparrow	<i>Passerella iliaca</i>			S4B,S5M	4 Secure	Breeding
			Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>			S4B,S4M	3 Sensitive	Breeding
			Scarlet Tanager	<i>Piranga olivacea</i>			S3B,S3M	4 Secure	Breeding

			Snow Bunting	<i>Plectrophenax nivalis</i>			S5N,S5M	4 Secure	Non
			Common Grackle	<i>Quiscalus quiscula</i>			S5B,S5M	4 Secure	Breeding
			Ovenbird	<i>Seiurus aurocapilla</i>			S5B,S5M	4 Secure	Breeding
			Northern Parula	<i>Setophaga americana</i>			S5B,S5M	4 Secure	Breeding
			Black-throated Blue Warbler	<i>Setophaga caerulescens</i>			S5B,S5M	4 Secure	Breeding
			Bay-breasted Warbler	<i>Setophaga castanea</i>			S4B,S4S5M	4 Secure	Breeding
			Yellow-rumped Warbler	<i>Setophaga coronata</i>			S5B,S5M	4 Secure	Breeding
			Blackburnian Warbler	<i>Setophaga fusca</i>			S5B,S5M	4 Secure	Breeding
			Magnolia Warbler	<i>Setophaga magnolia</i>			S5B,S5M	4 Secure	Breeding
			Palm Warbler	<i>Setophaga palmarum</i>			S5B,S5M	4 Secure	Breeding
			Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5B,S5M	4 Secure	Breeding
			Yellow Warbler	<i>Setophaga petechia</i>			S5B,S5M	4 Secure	Breeding
			Pine Warbler	<i>Setophaga pinus</i>			S5B,S5M	4 Secure	Breeding
			American Redstart	<i>Setophaga ruticilla</i>			S5B,S5M	4 Secure	Breeding
			Blackpoll Warbler	<i>Setophaga striata</i>			S3S4B,S5M	4 Secure	Breeding
			Cape May Warbler	<i>Setophaga tigrina</i>			S3B,S4S5M	4 Secure	Breeding
			Black-throated Green Warbler	<i>Setophaga virens</i>			S5B,S5M	4 Secure	Breeding
			Chipping Sparrow	<i>Spizella passerina</i>			S5B,S5M	4 Secure	Breeding
			American Tree Sparrow	<i>Spizelloides arborea</i>			S5N,S5M	4 Secure	Non
			White-throated Sparrow	<i>Zonotrichia albicollis</i>			S5B,S5M	4 Secure	Breeding
			White-crowned Sparrow	<i>Zonotrichia leucophrys</i>			S4M	4 Secure	Transient
			Common Redpoll	<i>Acanthis flammea</i>			S5N,S5M	4 Secure	Non
			Evening Grosbeak	<i>Coccothraustes vespertina</i>	SC		S3B,S3S4N,SUM	3 Sensitive	Breeding
			Purple Finch	<i>Haemorhous purpureus</i>			S4S5B,SUN,S5M	4 Secure	Breeding
			Red Crossbill	<i>Loxia curvirostra</i>			S3	4 Secure	
			White-winged Crossbill	<i>Loxia leucoptera</i>			S5	4 Secure	
			Pine Grosbeak	<i>Pinicola enucleator</i>			S2B,S4S5N,S4S5	3 Sensitive	Breeding
			Pine Siskin	<i>Spinus pinus</i>			S3	4 Secure	
			American Goldfinch	<i>Spinus tristis</i>			S5	4 Secure	
			House Sparrow	<i>Passer domesticus</i>			SNA	7 Exotic	Exotic
		1 flying SE at 50-150m	Passerine Spp.						
			Warbler Spp.						
			Bueto Spp.						

\*\*Chris had to leave site to meet NB-DELG at Upham site.



	3 flying out of hollow towards WC at <50m					1 local movement at WC <50m.	1 perched near WC					Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
												Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
												Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
												Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
												Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
												Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
												Eastern Wood-Pewee	Contopus virens	SC	Special Concern	S4B,S4M	4 Secure	Breeding
												Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
												Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
												Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
												Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
												Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
												Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
												Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
												Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
												Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
						1 flying S nearest to T10 at <50m.			2 flying S of WC at 5-150m.	1 flying S of T10, at <50m.		American Crow	Corvus brachyrhynchos			S5	4 Secure	
2 flying S near WC site <50m. 1 flying near T10 <50m		3 flying from hollow past WC going SW at <50m		1 flying S across site <150m. 2 soaring 50-150m S of WC	2 soaring at 150m SE of T10. 3 soaring >150m nearest to T8.		1 flying N past WC <50m.	1 flying S nearest to T10 at <50m.		2 foraging near WC at <50m.		Common Raven	Corvus corax			S5	4 Secure	
6 local movement flying S and N at <50m. 9 flying in front of WC site at <50m	12 flying <50m locally, collecting food items	9 flying locally at <50m collecting food items.	9 flying locally at <50m	2 local <50m. 3 flying S local.	1 flying S at <50m. 1 flying N at <50m.	7 flying S local to WC at <50m. 2 flying N <50m.	3 flying N <50m.	6 flying S near WC at <50m. 5 flying N local <50m.	3 flying S at <50m. 4 flying S from pines at <50m.	5 flying N, 1 flying S at <50m.	3 flying S at <50m.	Blue Jay	Cyanocitta cristata			S5	4 Secure	
												Canada Jay	Perisoreus canadensis			S4	4 Secure	
												Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
												Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
												Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
												White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
												Brown Creeper	Certhia americana			S5	4 Secure	
												Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
												Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
												Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
												Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
												Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
												Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
	1 in hollow between WC and Study Area flying at <50m										2 flying over WC area at <50m.	American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
												Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
												Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
												Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
												Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
												Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
												European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
												Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
												Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
												Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
												Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
												Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
												Nelson's Sparrow	Ammodramus nelsoni	NAR		S4B,S4M	4 Secure	Breeding
												Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
												Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
												Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	



TABLE 68 FALL WC#1.10

11:15 AM	11:45 AM	12:15 PM	12:45 PM	1:15 PM	1:45 PM	2:15 PM	2:45 PM	3:15 PM	3:45 PM	4:15 PM	4:45 PM							
8° C	9° C	9° C	10° C	10° C	11° C	11° C	12° C	12° C	12° C	12° C	12° C							
Wind: 3 NE	Wind: 3-4 N	Wind: 3-4 E	Wind: 3-4 N	Wind: 3 N	Wind: 3 NE	Wind: 3 NE	Wind: 3 NE	Wind: 3-4 NE	Wind: 3-4 NE	Wind: 3-4 NE	Wind: 4 N							
CC 40%	CC 40%	CC 50%	CC 40%	CC 40%	CC 40%	CC 40%	CC 50%	CC 50%	CC 50%	CC 40%	CC 40%							
Sun & Clouds	Sun & Cloud	Sun & Cloud	Sun & Cloud	Sun & Clouds	Sun & Clouds	Sun & Clouds	Sun & Clouds	Sun & Clouds	Sun & Clouds	Sun & Clouds	Sun & Clouds							
10-Oct	10-Oct	10-Oct	10-Oct	10-Oct	10-Oct	10-Oct	10-Oct	10-Oct	10-Oct	10-Oct	10-Oct							
												Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
												Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
												Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
												Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
												Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
												Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
												American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
												Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breeding
												Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
												Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
												Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S5	4 Secure	Breeding
												Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
							1 flew across site 50-150m					Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
												Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
												Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
							Adult flying near T8 at 50-150m					Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
												Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
								1 flying low, <50m, nearest to T9 into hollow				Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
								1 soaring behind T9, SE of T10 at >150m				Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
												Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
												Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
1 male hunting at WC area <50m												American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
												Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
												Spruce Grouse	Falcapennis canadensis			S5	4 Secure	
												Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
												Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
												Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
												Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
												Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
												Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
												American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
												Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
												Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus Br
												Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
												Herring Gull	Larus argentatus			S5	4 Secure	
												Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
												Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
												Great Black-backed Gull	Larus marinus			S5	4 Secure	
												Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
												Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
												Mourning Dove	Zenaida macroura			S5B,S5M,S4N	4 Secure	Breeding
												Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
												Great Horned Owl	Bubo virginianus			S4	4 Secure	
												Barred Owl	Strix varia			S5	4 Secure	
												Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding



															Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
															Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
															Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
															Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
															Downy Woodpecker	Dryobates pubescens			S5	4 Secure	
															Hairy Woodpecker	Dryobates villosus			S5	4 Secure	
															Pileated Woodpecker	Dryocopus pileatus			S5	4 Secure	
															Yellow-bellied Sapsucker	Sphyrapicus varius			S5B,S5M	4 Secure	Breeding
															Olive-sided Flycatcher	Contopus cooperi	SC	Threatened	S3B,S3M	1 At Risk	Breeding
															Eastern Wood-Pewee	Contopus virens	SC	Special Conc	S4B,S4M	4 Secure	Breeding
															Alder Flycatcher	Empidonax alnorum			S5B,S5M	4 Secure	Breeding
															Yellow-bellied Flycatcher	Empidonax flaviventris			S4S5B,S5M	4 Secure	Breeding
															Least Flycatcher	Empidonax minimus			S5B,S5M	4 Secure	Breeding
															Eastern Phoebe	Sayornis phoebe			S5B,S5M	4 Secure	Breeding
															Eastern Kingbird	Tyrannus tyrannus			S3S4B,S3S4M	3 Sensitive	Breeding
															Barn Swallow	Hirundo rustica	T	Threatened	S2B,S2M	3 Sensitive	Breeding
															Cliff Swallow	Petrochelidon pyrrhonota			S2S3B,S2S3M	3 Sensitive	Breeding
															Bank Swallow	Riparia riparia	T		S2S3B,S2S3M	3 Sensitive	Breeding
															Tree Swallow	Tachycineta bicolor			S4B,S4M	4 Secure	Breeding
	1 flying SE over hollow 50-150m														American Crow	Corvus brachyrhynchos			S5	4 Secure	
			2 flying near T10, SW at <50m.	2 flying N nearest to T8 at <50m.			2 flying SW of T10 at >150m	1 flying at WC area into hollow at <50m							Common Raven	Corvus corax			S5	4 Secure	
5 local movement N at <50m	2 flying SE at <50m	3 local flying N at <50m	1 local flying S at <50m.	2 flying N local at <50m. 1 flying SE into hollow at <50m. 1 flying over hollow E at 50-150m.			3 flying SE at <50m	3 flying N at <50m.	2 flying N near hollow. 2 flying local to WC pines at <50m	2 flying S at <50m.		3 flying S local at WC <50m. 1 flying N with food items at <50m	2 flew N into pines at WC <50m		Blue Jay	Cyanocitta cristata			S5	4 Secure	
															Canada Jay	Perisoreus canadensis			S4	4 Secure	
															Black-capped Chickadee	Poecile atricapillus			S5	4 Secure	
															Boreal Chickadee	Poecile hudsonicus			S4	4 Secure	
															Red-breasted Nuthatch	Sitta canadensis			S5	4 Secure	
															White-breasted Nuthatch	Sitta carolinensis			S4	4 Secure	
															Brown Creeper	Certhia americana			S5	4 Secure	
															Winter Wren	Troglodytes hiemalis			S5B,S5M	4 Secure	Breeding
															Veery	Catharus fuscescens			S4B,S4M	4 Secure	Breeding
															Hermit Thrush	Catharus guttatus			S5B,S5M	4 Secure	Breeding
															Swainson's Thrush	Catharus ustulatus			S5B,S5M	4 Secure	Breeding
															Ruby-crowned Kinglet	Regulus calendula			S4B,S5M	4 Secure	Breeding
															Golden-crowned Kinglet	Regulus satrapa			S5	4 Secure	
															American Robin	Turdus migratorius			S5B,S5M	4 Secure	Breeding
															Gray Catbird	Dumetella carolinensis			S4B,S4M	4 Secure	Breeding
															Northern Mockingbird	Mimus polyglottos			S2B,S2M	3 Sensitive	Breeding
															Cedar Waxwing	Bombycilla cedrorum			S5B,S5M	4 Secure	Breeding
															Bohemian Waxwing	Bombycilla garrulus			S5N,S5M	4 Secure	Non
															Northern Shrike	Lanius borealis			S4N,S4M	4 Secure	Non
															European Starling	Sturnus vulgaris			SNA	7 Exotic	Exotic
															Warbling Vireo	Vireo gilvus			S3B,S3M	4 Secure	Breeding
															Red-eyed Vireo	Vireo olivaceus			S5B,S5M	4 Secure	Breeding
															Philadelphia Vireo	Vireo philadelphicus			S5B,S5M	4 Secure	Breeding
															Blue-headed Vireo	Vireo solitarius			S5B,S5M	4 Secure	Breeding
															Red-winged Blackbird	Agelaius phoeniceus			S4B,S4M	4 Secure	Breeding
															Nelson's Sparrow	Ammospiza nelsoni	NAR		S4B,S4M	4 Secure	Breeding
															Canada Warbler	Cardellina canadensis	T	Threatened	S3B,S3M	1 At Risk	Breeding
															Wilson's Warbler	Cardellina pusilla			S4B,S5M	4 Secure	Breeding
															Northern Cardinal	Cardinalis cardinalis			S4	4 Secure	
															Bobolink	Dolichonyx oryzivorus	T	Threatened	S3B,S3M	3 Sensitive	Breeding
															Rusty Blackbird	Euphagus carolinus	SC	Special Conc	S3B,S3M	2 May Be At R	Breeding
															Mourning Warbler	Geothlypis philadelphia			S4B,S5M	4 Secure	Breeding
															Common Yellowthroat	Geothlypis trichas			S5B,S5M	4 Secure	Breeding
															Dark-eyed Junco	Junco hyemalis			S5	4 Secure	



TABLE 69 FALL WC#1.11

11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM								
10° C	11° C	11° C	11° C	12° C	13° C	13° C	14° C	14° C	14° C	13° C	14° C								
Wind: 2-3 NE	Wind: 2-3 NE	Wind: 2-3 NE	Wind: 2 NE	Wind: 2-3	Wind: 3	Wind: 2-3	Wind: 3-4 N	Wind: 2-3	Wind: 3-4	Wind: 3 N	Wind: 3-4 NE								
CC 70%	CC 80%	CC 80%	CC 80%	CC 70%	CC 70%	CC 70%	CC 60%	CC 40%	CC 50%	CC 70%	CC 70%								
Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Sun & Cloud	Cloudy	Cloudy	Cloudy								
<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>	<b>11-Oct</b>								
													Common Loon	Gavia immer	NAR		S4B,S4M,S4N	4 Secure	Breeding
													Double-crested Cormorant	Phalacrocorax auritus	NAR		S5B,S5M	4 Secure	Breeding
													Great Cormorant	Phalacrocorax carbo			S2N,S2M	4 Secure	Non
													Great Blue Heron	Ardea herodias			S4B,S4M	4 Secure	Breeding
													Wood Duck	Aix sponsa			S4B,S4M	4 Secure	Breeding
													Mallard	Anas platyrhynchos			S5B,S4N,S5M	4 Secure	Breeding
													American Black Duck	Anas rubripes			S5B,S4N,S5M	4 Secure	Breeding
													Canada Goose	Branta canadensis			SNAB,S5M	4 Secure	Exotic Breedin
													Hooded Merganser	Lophodytes cucullatus			S4B,S5M	4 Secure	Breeding
													Common Merganser	Mergus merganser			S5B,S4N,S5M	4 Secure	Breeding
													Red-breasted Merganser	Mergus serrator			S3B,S5M,S4S	4 Secure	Breeding
													Common Eider	Somateria mollissima			S3B,S4M,S3N	4 Secure	Breeding
						1 NW of T10							Turkey Vulture	Cathartes aura			S3B,S3M	4 Secure	Breeding
													Northern Goshawk	Accipiter gentilis	NAR		S4	4 Secure	
													Sharp-shinned Hawk	Accipiter striatus	NAR		S4B,S5M	4 Secure	Breeding
													Red-tailed Hawk	Buteo jamaicensis	NAR		S4	4 Secure	
													Broad-winged Hawk	Buteo platypterus			S5B,S5M	4 Secure	Breeding
													Northern Harrier	Circus hudsonius	NAR		S4B,S4S5M	4 Secure	Breeding
	Juvenile flying low out of hollow past WC at <50m		1 behind (NE) of T8 soaring at >150m					Adult soaring near T8 at >150m	Adult still soaring near T8 at >150m				Bald Eagle	Haliaeetus leucocephalus	NAR	Endangered	S4	1 At Risk	
													Osprey	Pandion haliaetus			S4S5B,S5M	4 Secure	Breeding
													Merlin	Falco columbarius	NAR		S5B,S5M	4 Secure	Breeding
													American Kestrel	Falco sparverius			S4B,S4S5M	4 Secure	Breeding
													Ruffed Grouse	Bonasa umbellus			S5	4 Secure	
													Spruce Grouse	Falciennis canadensis			S5	4 Secure	
													Ring-necked Pheasant	Phasianus colchicus			SNA	7 Exotic	Exotic
													Sora	Porzana carolina			S4B,S4M	4 Secure	Breeding
													Virginia Rail	Rallus limicola			S3B,S3M	3 Sensitive	Breeding
													Killdeer	Charadrius vociferus			S3B,S3M	3 Sensitive	Breeding
													Spotted Sandpiper	Actitis macularius			S3S4B,S5M	4 Secure	Breeding
													Wilson's Snipe	Gallinago delicata			S3S4B,S5M	4 Secure	Breeding
													American Woodcock	Scolopax minor			S5B,S5M	4 Secure	Breeding
													Lesser Yellowlegs	Tringa flavipes			S4M	4 Secure	Transient
													Greater Yellowlegs	Tringa melanoleuca			S1?B,S5M	4 Secure	UnknownStatus
													Bonaparte's Gull	Chroicocephalus philadelphia			S5M	4 Secure	Transient
													Herring Gull	Larus argentatus			S5	4 Secure	
													Ring-billed Gull	Larus delawarensis			S3S4B,S5M	4 Secure	Breeding
													Iceland Gull	Larus glaucooides			S4N,S4M	4 Secure	Non
													Great Black-backed Gull	Larus marinus			S5	4 Secure	
													Common Tern	Sterna hirundo	NAR		S3B,SUM	3 Sensitive	Breeding
													Rock Pigeon	Columba livia			SNA	7 Exotic	Exotic
													Mourning Dove	Zenaid macroura			S5B,S5M,S4N	4 Secure	Breeding
													Northern Saw-whet Owl	Aegolius acadicus			S5B,S5M	4 Secure	Breeding
													Great Horned Owl	Bubo virginianus			S4	4 Secure	
													Barred Owl	Strix varia			S5	4 Secure	
													Common Nighthawk	Chordeiles minor	SC	Threatened	S3B,S4M	1 At Risk	Breeding
													Chimney Swift	Chaetura pelagica	T	Threatened	S2S3B,S2M	1 At Risk	Breeding
													Ruby-throated Hummingbird	Archilochus colubris			S5B,S5M	4 Secure	Breeding
													Belted Kingfisher	Megaceryle alcyon			S5B,S5M	4 Secure	Breeding
3 at WC area		1 low towards hollow from near T8 at <50m							4 flew by WC		1 flew S across WC site at <50m		Northern Flicker	Colaptes auratus			S5B,S5M	4 Secure	Breeding
													Downy Woodpecker	Dryobates pubescens			S5	4 Secure	



											Dark-eyed Junco	Junco hyemalis		S5	4 Secure	
											Swamp Sparrow	Melospiza georgiana		S5B,S5M	4 Secure	Breeding
											Lincoln's Sparrow	Melospiza lincolnii		S4B,S5M	4 Secure	Breeding
											Song Sparrow	Melospiza melodia		S5B,S5M	4 Secure	Breeding
											Black-and-White Warbler	Mniotilta varia		S5B,S5M	4 Secure	Breeding
											Brown-headed Cowbird	Molothrus ater		S3B,S3M	2 May Be At F	Breeding
											Tennessee Warbler	Oreothlypis peregrina		S4B,S5M	4 Secure	Breeding
											Nashville Warbler	Oreothlypis ruficapilla		S5B,S5M	4 Secure	Breeding
											Northern Waterthrush	Parkesia noveboracensis		S4B,S5M	4 Secure	Breeding
											Savannah Sparrow	Passerculus sandwichensis		S4S5B,S5M	4 Secure	Breeding
											Fox Sparrow	Passerella iliaca		S4B,S5M	4 Secure	Breeding
											Rose-breasted Grosbeak	Pheucticus ludovicianus		S4B,S4M	3 Sensitive	Breeding
											Scarlet Tanager	Piranga olivacea		S3B,S3M	4 Secure	Breeding
											Snow Bunting	Plectrophenax nivalis		S5N,S5M	4 Secure	Non
											Common Grackle	Quiscalus quiscula		S5B,S5M	4 Secure	Breeding
											Ovenbird	Seiurus aurocapilla		S5B,S5M	4 Secure	Breeding
											Northern Parula	Setophaga americana		S5B,S5M	4 Secure	Breeding
											Black-throated Blue Warbler	Setophaga caerulescens		S5B,S5M	4 Secure	Breeding
											Bay-breasted Warbler	Setophaga castanea		S4B,S4S5M	4 Secure	Breeding
											Yellow-rumped Warbler	Setophaga coronata		S5B,S5M	4 Secure	Breeding
											Blackburnian Warbler	Setophaga fusca		S5B,S5M	4 Secure	Breeding
											Magnolia Warbler	Setophaga magnolia		S5B,S5M	4 Secure	Breeding
											Palm Warbler	Setophaga palmarum		S5B,S5M	4 Secure	Breeding
											Chestnut-sided Warbler	Setophaga pensylvanica		S5B,S5M	4 Secure	Breeding
											Yellow Warbler	Setophaga petechia		S5B,S5M	4 Secure	Breeding
											Pine Warbler	Setophaga pinus		S5B,S5M	4 Secure	Breeding
											American Redstart	Setophaga ruticilla		S5B,S5M	4 Secure	Breeding
											Blackpoll Warbler	Setophaga striata		S3S4B,S5M	4 Secure	Breeding
											Cape May Warbler	Setophaga tigrina		S3B,S4S5M	4 Secure	Breeding
											Black-throated Green Warbler	Setophaga virens		S5B,S5M	4 Secure	Breeding
											Chipping Sparrow	Spizella passerina		S5B,S5M	4 Secure	Breeding
											American Tree Sparrow	Spizelloides arborea		S5N,S5M	4 Secure	Non
											White-throated Sparrow	Zonotrichia albicollis		S5B,S5M	4 Secure	Breeding
											White-crowned Sparrow	Zonotrichia leucophrys		S4M	4 Secure	Transient
											Common Redpoll	Acanthis flammea		S5N,S5M	4 Secure	Non
											Evening Grosbeak	Coccothraustes vespertin SC		S3B,S3S4N,SU	3 Sensitive	Breeding
											Purple Finch	Haemorhous purpureus		S4S5B,SUN,S5	4 Secure	Breeding
											Red Crossbill	Loxia curvirostra		S3	4 Secure	
											White-winged Crossbill	Loxia leucoptera		S5	4 Secure	
											Pine Grosbeak	Pinicola enucleator		S2B,S4S5N,S4	3 Sensitive	Breeding
											Pine Siskin	Spinus pinus		S3	4 Secure	
											American Goldfinch	Spinus tristis		S5	4 Secure	
											House Sparrow	Passer domesticus		SNA	7 Exotic	Exotic
											Passerine Spp.					
											Warbler Spp.					
											Bueto Spp.					

## Photos

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Photo 1 – View from logging road of a spruce plantation in SA1.



Photo 2 – View of the mature, mixed wood valley slope habitat observed in SA2 and SA3.





Photo 3 – View of the mixed wood valley bottom in SA2.



Photo 4 – View of a spruce plantation in SA5.





Photo 5 – View of the immature regrowth observed in SA4 and SA5.



Photo 6 – View of the natural regrowth along the logging road in SA6.





Photo 7 – Watercourse Crossing 1, upstream: substrate view.

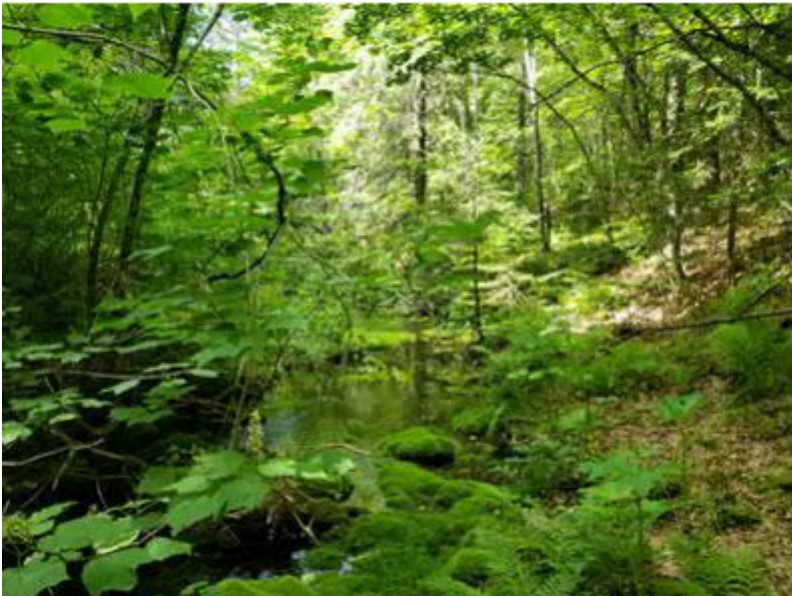


Photo 8 – Watercourse Crossing 1, upstream -50 m from crossing: channel view.



Photo 9 – Watercourse Crossing 2, downstream: substrate view.



Photo 10 – Watercourse Crossing 2, downstream -50 m from crossing: substrate view.





Photo 11 – Watercourse Crossing 2, downstream -50 m from crossing: channel view.



Photo 12 – Watercourse Crossing 2, downstream +50 m from crossing: channel view.





Photo 13 – Watercourse 2, downstream +150m from crossing: channel view.

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## **Appendix B**

### Bat Report



12/9/2019

# Wocawson Energy Project Phase II 2019 Pre-Construction Bat Monitoring



PREPARED FOR NATURAL FORCES WIND ENERGY

Natural Forces Services

1801 Hollis Street, Suite 1205, Halifax, NS

B3J 3N4



**B O R E A L**  
E N V I R O N M E N T A L



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**LIST OF ACRONYMS**

agl.	above ground level
GPS	global positioning system
ha	hectare
hr	hour
hwy	highway
MET	Meteorological Tower

## 1 Introduction

Boreal Environmental Inc.(Boreal) was retained by Natural Forces Inc collect and analyze and summarize acoustic bat monitoring data for an addition to the Wocawson Energy Project Phase II, 20 km northeast of Sussex, NB. The five turbines and associated infrastructure of Phase I have received environmental approval and are currently under construction to the north of Phase II. Two of the five turbine locations for Phase I were assessed and approved as a part of the initial Environmental Impact Assessment (EIA) (Dillon 2018). The purpose of this report is to summarize the 2019 acoustic monitoring data for three new turbine locations (T-8 to T-10) that were not included in the 2018 bat survey area by Dillon Consulting, and to provide some context for the results relative to the project setting and previous survey at the Phase I area. This report will support an addendum to the EIA (NBDELG file #4561-3-1506).

The data for this survey was collected by Boreal using two Anabat Swift™ passive bat detectors that were installed at tree canopy height at the north and southern extents of the location of the three new turbines. Data was recorded continuously from June through October of 2019. Boreal analyzed the calls to determine number of bat passes per night per detector and identify any temporal activity patterns. For the purposes of this study, *Pre-Construction Bat Survey Guidelines for Wind Farm development in NB*, were followed as appropriate.

### Bat Populations in New Brunswick

Bat populations are poorly understood in New Brunswick. Historically, there is evidence of the occurrence of seven different species of bats which include the hoary bat (*Lasiurus cinereus*), red bat (*L. borealis*), silver-haired bat (*Lasionycteris noctivagans*), big brown bat (*Eptesicus fuscus*), little brown bat (*Myotis lucifugus*), northern myotis (*M. septentrionalis*), and tri-colored bat (*Perimyotis subflavus*), although studies in Southern New Brunswick indicates that only two species were common, prior to 2014: little brown bat and northern myotis (Broders, Findlay & Zheng, 2004). Of the seven species in the province, four are resident: little brown bat, northern myotis, tri-colored bat, and the little brown bat. The other three species migrate to warmer climates to the south for the colder months(van Zyll De Jong, 1985).

In 2014,threeof the four New Brunswick resident bat species were listed as *Endangered* under the federal Species at Risk Act (SARA) due to the decimation of local populations by an infectious disease known as White Nose Syndrome (WNS). The disease is caused by the introduced fungus *Pseudogymnoascus destructans*, which survives in damp, cold cave conditions and infects hibernating bats (Lorch et. Al. 2011). WNS causes these species to arouse during hibernation depleting them of resources leading to death in almost all cases (Environment Canada 2014). Migratory bats occurring in

New Brunswick tend not to be affected by the disease as they do not overwinter in caves inoculated with the fungus. It is estimated that populations of the two once-most common species in the province (little brown bat, northern myotis) were reduced by as much as 99%. The tri-colored bat which was known to occur in New Brunswick in lower numbers (Broders, Findlay & Zheng 2004, Broders, McAlpine, and Forbes, 2001) was also given Endangered status. The population of tri-colored bats is believed to have been extirpated from New Brunswick as a result of WNS (CBC 2018).

While bat populations in Nova Scotia may be showing signs of a slow recovery (MTRI 2019) there is not yet anycompelling evidence to that effect in New Brunswick (McAlpine pers. comm. 2019). Despite this, the big brown bat may be increasing in range and numbers by occupying niches formerly dominated by the *Myotis* species. The big brown bat is less susceptible to WNS as it tends to spend winters in larger buildings (McAlpine 2002) where *P. destructans* does not tend to flourish. Big brown bats are also known to hibernate in caves but there is some evidence that they have some resistance to *P. destructans* (Frank et. al. 2014).It is likely that this is now the most common species in the province (McApline pers. comm. 2019). While the range and population of big brown bats is largely unknown, they are known to occur in southern New Brunswick and have comprised the majority of calls recorded at recent pre-construction bat monitoring programs for winder energy developments in the province, including at the adjacent Wocawson Energy Project Phase 1 (Dillon 2018). Similar results were expected at the Phase II site.

### Bat mortality at wind energy developments

Based on data collected at 5 wind power projects for 7 project-years between 2008 and 2012, the estimated Atlantic Canada turbine mortality of bats was  $0.26 \pm 0.11$  bats/turbine (Bird Studies Canada 2016). The total number of installed turbines in Atlantic Canada as of December 2015 was 521. There was an estimated 134 cumulative bat fatalities at all Wind Farms in Atlantic Canada as of the end of 2015 (Bird Studies Canada 2016). While this number is not high relative to other Canadian jurisdictions such as Ontario and Alberta, losses tend to be biased toward resident overwintering species. Even though their populations have plummeted in recent years, additional losses of Endangered resident bats could compromise the survival outlook for remaining populations.

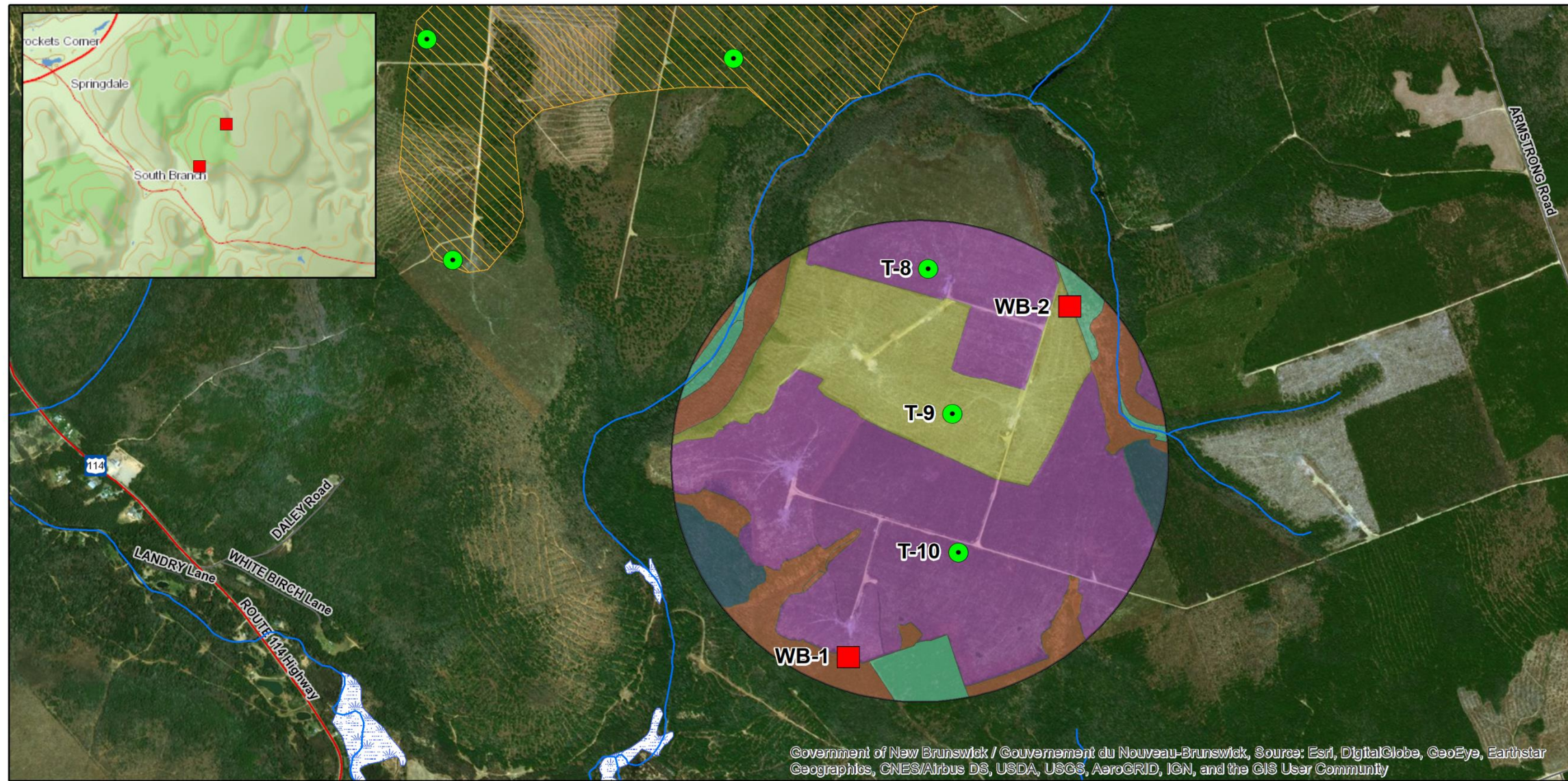
Based on existing knowledge, Canada-wide the greatest potential environmental interaction between bats and wind developments are for migratory species (red bats, silver-haired bats, and hoary bats). However, in Atlantic Canada, historic trends have shown that mortality at wind farms is higher for resident bats (northern myotis and little brown bats) (Bird Studies Canada 2016). While WNS has decimated the populations of three of the four resident bat species, big brown bats may now have the highest potential for mortality due to interaction with turbines at this site.

## 2 Project setting

Phase II of the Wocawson Energy Project is part of a 20-40 megawatt (MW) Project that is expected to provide electricity to approximately 3,600 – 7,200 New Brunswick homes. The turbines are proposed on approximately 1,150 hectares (ha) of Crown land located approximately 20 kilometres (km) east of the Town of Sussex, in Kings County, New Brunswick. This study focuses on a portion of Phase two of the project where three turbines are proposed for installation outside, but immediately to the south of the area assessed as a part of the EIA. Phase II turbine locations were assessed as a part of the EIA (Dillon 2018). Figure 1 shows the three new turbine locations, the acoustic monitoring locations, and the major habitat types around the turbines.

All three turbines are located within a large, clearcut and young spruce plantation located near the top of a hill. An extensive logging access road network is present within and around the site.





**Wocawson Energy Project Phase II**  
**Penobquis, NB**  
**Figure 1**  
 December 5, 2019

- |                           |                       |                            |
|---------------------------|-----------------------|----------------------------|
| Proposed turbine location | Mapped watercourses   | Young plantation           |
| Detector location         | Roads                 | Mature conifer             |
| Mapped wetlands           | <b>Forest habitat</b> | Clearcut                   |
| Previous assessed area    | Mature mixed pine     | Mature intolerant hardwood |



## 3 Acoustic monitoring methodology

### Study design

Prior to commencement of the survey, sampling protocol and monitoring station locations were discussed and agreed upon with NBNRED regulators.

The Pre-Construction Bat Survey Guidelines for Wind Farm development in NB requires that acoustic monitoring for bats occurs for at least one summer and fall prior to construction (NBDNR 2009). Additional work may be required where projects areas are near known hibernacula, or fall near coastline or linear forested ridges. This project area was not identified as needing additional years of sampling. minimum of 1-year prior to construction during both the early breeding season (June 1 to June 30) and the late-summer and early-fall migratory period (August 15 to September 15) is required. A minimum of 40 hours of survey distributed over a minimum of 10 nights with a minimum of 4 hours per night starting 30 minutes after sunset is required for each the early breeding and late-summer early-fall migration periods, respectively. The guidelines require additional pre-construction bat acoustic survey effort during the late-breeding season (July 1 to July 31) and fall migration period (September 15 to October 15) for high risk location.

While Project site characteristics are not considered a high risk for bat mortality according to the guidelines sampling was conducted over the entire breeding and migration season (June 1<sup>st</sup> through October 15<sup>th</sup>, 2019) with sampling spanning the entire night from 30 minutes before sunset to 30 minutes after sunrise.

The turbine locations are all within a large recent clearcut and young softwood plantation. There are no meteorological towers installed that could be used to sample bat activity at higher elevations. As a result, forested edges to the north and south of the turbine locations were chosen as sampling locations. These forested edges provide an opportunity to elevate recording devices onto trees to sample near the lower blade sweep zone, and allow for the sampling of edge habitat where bat activity is often concentrated. It was anticipated that detectors elevated to the mid canopy region of the surrounding forest would provide potential to record resident foraging bats and any migrating bats that might be flying close to the canopy level over the forest. The detector locations are shown on Figure 1 while photos of the detector positions are shown in Figure 2.



Station WB-1 – Approximately 8 m agl. Along border of mature mixedwood stand and a large clearcut.

Station WB-2 – Approximately 8m agl. along border of tolerant hardwood and a large clearcut.



**FIGURE 2. PHOTOS OF THE TWO ACOUSTIC MONITORING STATIONS SHOWING ELEVATED MICROPHONE POSITIONS WITH WEATHERPROOF SOUND DEFLECTING APPARATUS.**

### Acoustic data collection

Acoustic data recorders were deployed, monitored, and data was collected and processed by Derrick Mitchell R.P.F. who has more than a decade of experience in acoustic surveys for bats.

Acoustic data was recorded using Anabat Swift™ passive bat detectors. AnaBats detect ultrasonic bat calls through a transducer (microphone) and record them on a data storage card for later analysis. Acoustic surveys were designed to meet the requirements of the *Pre-Construction Bat Survey Guidelines for Wind Farm development in NB*. The detector count and locations were agreed on with Provincial Regulators prior to commencement of the survey. However, detector location WB 2 was adjusted due to accessibility issues with the location originally proposed. WB 2 was initially proposed to be located north of Turbine 8 at the edge of the large clearcut area. WB 2 was relocated to a site with similar habitat characteristics (i.e., clearcut edge) to the east of turbine 8. The location of WB 1 was also

adjusted slightly in order to find a suitable mature tree with an overhanging branch along the edge of the clearcut to hoist the detector WB 1. Site adjustments were approved by Hubert Askansas (NBDERD) via a cellular phone call from the field on the day of detector deployment (May 31<sup>st</sup>, 2019).

Anabat Swift detectors are weather-proof and hold enough battery power to sustain operation for several months under low-activity conditions such as found at this site. Regular visits were conducted to the site to collect data and batteries were monitored and changed as needed. Both detectors ran continuously between June 1<sup>st</sup> to October 15<sup>th</sup> with any equipment failures. The Anabat Swift units were set to a sensitivity level of 16, as recommended by Titley. Each microphone was pointed downward above a 20 x 20 cm metal sheet mounted at a 45° angle to deflect sound upward into the microphone.

Anabat Insight<sup>tm</sup>v. 1.8.6. software (Titley Electronics, Ballina, NSW, Australia) was used to view and categorize frequency/time graphs from the bat calls recorded by the AnaBat detectors. For each call, the slope, maximum frequency (i.e., the highest frequency), minimum frequency (i.e., the lowest frequency), and duration were noted in order to determine species. Each variable was then compared with a library of reference calls collected from individual bats that had been identified to species. We defined a bat call (call) as a single, recognizable vocalization from one bat and a bat pass (pass) as one or more sequential calls, representing calls from a single bat, recorded in a one AnaBat digital file.

The detectors were programmed to record bat passes from a half hour before sunset to a half hour after sunrise to determine relative activity patterns by species or species groups over time. Bat pass monitoring was designed based on the protocols described in *Bats and Wind Turbines: Pre-siting and Pre-construction Protocols* (Lausen et al. 2010).

Bat species calls are usually distinguishable based on the characteristics of the geometry of the frequency/time graphs in Analook (Jones and Siemers, 2010). However, call recordings sometimes lack sufficient detail to allow species level identification due to factors such as; background noise, distance from the detector, weather and other environmental factors. Given that call recordings are often of short duration or contain anomalies or disturbance, major categories were developed into which called could consistently be classified under normal recording conditions:

- EPFU/LANO/LABO – [Big brown bat/Silver-haired bat/Eastern red bat]: Silver-haired bats and big brown bats produce calls with a constant frequency (CF) tail around 22 – 25 kHz. Although eastern red bats are the only species to produce calls with a minimum frequency between 30 – 35 KHz, they also produce calls with lower minimum frequencies within the range of big brown and silver-haired bats. As such, eastern red bats were included in this species group. However, red bat calls are often distinctive to experienced technicians, having calls that change frequency range between calls and can have a distinctive up curve in frequency at the end of the call. Where obvious, these calls would be classified as red bat. When calls are clear and of adequate

durations, experienced-based professional judgment allows for accurate discrimination of big brown bat calls (EPFU). Separating EPFU calls where possible is important when assessing potential effects of a project and prescribing mitigation as big brown bats are resident bats, while both LANO and LABO are migratory bat species.

- LACI –Hoary bat: Noticeably lower in frequency, with calls ranging from 25 to 18 kHz (maximum to minimum frequency). Calls are also noticeably longer in duration, with a longer CF tail compared to other bat species known to occur within the assessment area. Hoary bats can, therefore, be reliably differentiated from all other species.
- MYOTID SP + PESU – [Little brown Myotis, Northern Myotis, and Tri-colored bat]: These species produce shorter duration calls with a minimum frequency between 40 – 45 kHz, and maximum frequencies ranging between 120 kHz and 80 kHz. Occasionally myotis calls can have a minimum call frequency of 35 kHz; while their maximum call frequencies distinguish them from potential Eastern red bat calls. Also, typical tricolored bat calls can have a Sc ('slope of the body') parameter of less than 25 and higher maximum frequencies, distinguishing them from *Myotids*. Where evident in such cases, tri-colored bats would be identified to species.
- Any partial or fragmented calls that could not be identified to species were classified as unidentified bats (records recognized as bat calls, but for which frequencies could not be determined).

The *Pre-Construction Bat Survey Guidelines for Wind Farm development in NB* requires that a minimum of suitable weather nights be sampled where there is no precipitation and wind speed is less than 20 kph. In order to determine the number of suitable sampling nights were met, weather data for the site was summarized for the sample evenings from a monitoring station operated by Environment Canada located at Mechanic Lake, approximately 9 km to the southeast.

In settings where bat activity levels are sufficiently high, temporal correlations between bat activity, time of night, weather, and season can be investigated statistically. However, this site had insufficient activity levels to conduct meaningful statistic analyses of factors affecting bat activity levels.

## 4 Bat assessment results

According to the project-specific AC CDC data report (Dillon 2018), there are no known bat hibernaculum within the assessment area (AC CDC 2018) and no observations of potential bat hibernacula were made during surveys in the Assessment area. Critical habitat as defined in the proposed recovery strategy (ECCC, 2015) does not overlap with the assessment area, including the Phase II study area. A review of existing information indicates that there are no known hibernacula, caves, or abandoned mines (based on the Province of New Brunswick's Mine Opening Inventory Map)

within 5 km of the Project assessment area, and it is not within 500 m of a coast line or major water body (ECCC, 2015).

Both bat detectors ran continuously between June 1<sup>st</sup> and October 15<sup>th</sup> 2019 without any equipment failures.

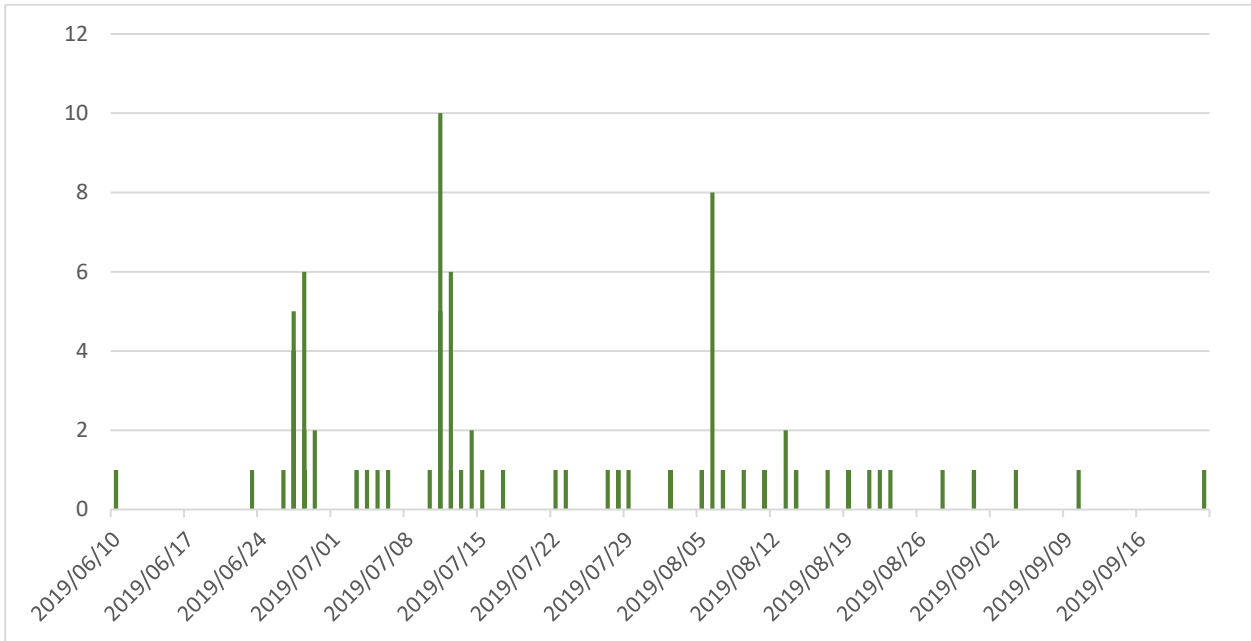
A total of 95 bat passes were recorded over 306 detector-nights between June 1 and October 31, 2018. Of the 153 total nights of recording, a total of 21 night were considered to be unsuitable weather to count as sampling nights as per the *Pre-Construction Bat Survey Guidelines for Wind Farm development in NB*. The remaining 132 nights of sampling in good weather far exceed the minimum requirement of 20 nights.

The number of bat passes recorded throughout the entire monitoring period are presented in Table 1. With only 95 total calls being recorded on only 54 of the total 153 nights of recording, there was insufficient data to statistically analyze the environmental factors affecting the spatial and temporal distribution of bat activity. The average number of bat passes per detector night over the whole season was 0.31, which was approximately half of the activity rate recorded by Dillon (2018) for the EIA study. Most of the recorded bat passes occurred at station WB-1 and over only a few nights. On just a few nights in late June, mid-July, and early August, a total of 35 of the 83 recorded passes occurred. These higher activity nights may be attributable to a single bat spending several minutes foraging near a detector, and does not necessarily represent a night of elevated general activity.

**TABLE 1. TOTAL NUMBER OF BAT PASSES RECORDED BY SPECIES GROUP OVER THE ENTIRE SEASON.**

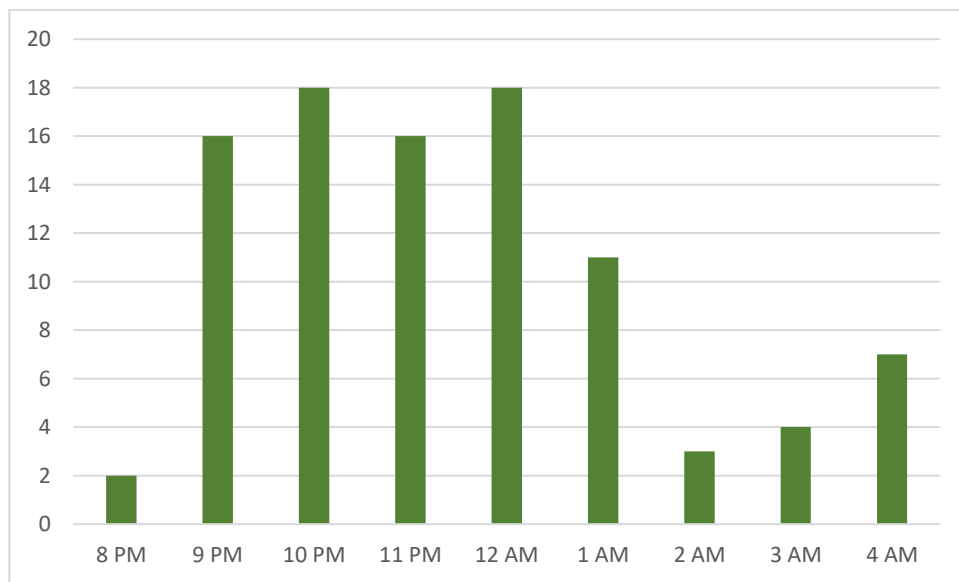
Species Group	WB-1	WB-2	Total	Passes per detector night
EPFU/LANO/LABO	72	8	80	0.26
LACI	4	3	7	0.02
MYOT	5		5	0.01
PESU	2		2	0.01
UNK		1	1	0.00
Total	83	12	95	0.31

The majority of calls recorded were attributed to EPFU/LANO/LABO, and most of these calls occurred within the summer breeding season with only a few scatter calls occurring after mid-August. While the EPFU/LANO/LABO category contains both migratory and resident bats, most, if not all the calls attributed to this category appeared to have been big brown bat calls, although there was not enough certainty to categorize them to species. Figure 3 shows the total distribution of bat passes recorded over the entire season between June 1<sup>st</sup> and October 15<sup>th</sup>. The latest recorded pass was a single call on September 22<sup>nd</sup>.



**FIGURE 3. BAT ACTIVITY LEVEL OVER THE SEASON FOR ALL SPECIES.**

Most bat activity was recorded between the hours of 9 pm and 1 am, as shown in Figure 2.



**FIGURE 4. AVERAGE BAT ACTIVITY PATTERNS THROUGHOUT THE NIGHT.**

## 5 Discussion

Acoustic monitoring occurred successfully over a large number of nights throughout the active bat season of 2019, far exceeding the minimum requirements. Despite this, only 95 bat passes were recorded at both monitoring stations over the course of 153 days. Very little activity occurred after mid-August. The data does not support the area being an important bat migration route; however, it cannot be definitively ruled out. Activity levels, in general, were too low to conduct statistical analyses of factors affecting bat activity spatially and temporally, as is typical with larger surveys at sites with higher activity levels.

The Proposed turbines for the Project have an approximate blade sweep height of 200 m which has the potential to increase risk for both migrating bats than lower towers (Barclay et. al. 2007). The two sampling locations which were at 8m agl were not at ideal locations for sampling within the blade sweep zone and pre-construction monitoring does not reliably provide accurate predictive power of actual fatalities at wind energy facilities, once built (Hein et. al 2013). However, across the Atlantic region in general, bat fatalities at wind energy facilities are low (Bird Studies Canada 2016), relative to more westerly jurisdictions, and relative to many other sites in Atlantic Canada, activity at this site in terms of passes per detector night, was relatively low.

While many of the passes recorded for the site were in the EPFU/LANO/LABO category, most of the calls were suspected to be little brown bat calls. This bat species is a resident of the province and may be expanding its range to occupy niches formerly dominated by the two resident *Myotis* species that have been decimated by WNS. The post WNS bat community in New Brunswick is poorly understood but it is likely that continued changes in populations, distribution and abundance of various bat species will continue to change for many years in the future. As a result, activity levels at this site in the future may be very different than those present now.

However, at present, the site is generally not a rich foraging habitat for bats, being recently clearcut, with no waterbodies, wetlands or other features that typically attract bats. Activity levels appear to be low and in general, it is anticipated that bat mortality associated with a future wind development on the site will be correspondingly low.

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## **Appendix C**

### Archaeological Assessment

**Archaeological Assessment & Monitoring of the Proposed Wocawson Wind  
Farm**

Permit #: 2018 NB 42

Prepared for

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by

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## **ABSTRACT**

Between July 2<sup>nd</sup> and the 22<sup>nd</sup>, 2019, archaeological monitoring took place at a few structure locations along the transmission line for the Wocawson Wind Farm near Sussex, NB. Additionally, a pedestrian survey was undertaken on November 20<sup>th</sup> to assess new locations for turbines and transmission lines associated with future construction activities.



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**Figure 23:** Area at Structure 18, facing south.

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**Figure 25:** New access road to Structure 21.

**Figure 26:** Structure 21, facing north.

**Figure 27:** Stratigraphy of Structure 21, facing north.



## INTRODUCTION

On behalf of Wocawson Energy Limited Partnership, Natural Forces commissioned the work of an archaeologist to mitigate the potential negative effects of construction activity surrounding the building of a wind farm, associated transmission lines and access roads. As part of their planned construction activities associated with the proposed project, elevated terraces along with an alluvial valley floor received construction monitoring and a second phase of turbine construction was assessed for the presence of heritage resources and the potential for buried archaeological resources.



## PREVIOUS RESEARCH

Two recorded archaeological sites are registered at Archaeological Services New Brunswick within the vicinity of the proposed construction activities in the area surveyed. Site BkDh-1 lies approximately 3 km east of the proposed turbines, whilst the second was discovered prior to construction and is located west of Structure 12.

The Borden system is a nation-wide, geographically based method for recording sites of archaeological value. In New Brunswick, each Borden block is 10 minutes of latitude by 10 minutes of longitude. Each of these blocks is referred to by a four-letter code, which describes the location of that particular block. Consequently, sites within each Borden block are numbered sequentially in the order in which they are reported. The Borden block that is of concern to this report is BkDh.



## **METHODS**

The information presented in this report was gained through research of relevant documents found at Archaeological Services in Fredericton and published materials, including topographic and surficial geology maps & reports, aerial photographs, and LiDAR data. The field component included the construction monitoring of several transmission line structure installations and a pedestrian survey. The pedestrian survey involved the inspection of the three proposed turbines for Phase 2 and the transmission line crossings of Dove Hollow Brook.



## RESULTS

A review of early and modern aerial photographs (1945 8252/020, 8255/027, 8256/040) failed to indicate any extant cultural features of interest. The air photos and topographical mapping indicate that the assessed area of the proposed wind farm is sited across an area that has previously been forested (and to a lesser degree, farmed) and rests at an elevation of ~65-270 m asl. The wide floodplain of the Kennebecasis River was treeless in these early photographs and clearly illustrate the many abandoned channels of the stream. There is evidence that the area has been used for gravel extraction in the past, as identified by several pits in the near vicinity (e.g. between the Phase 1 turbines and the Kennebecasis River). The nearby drainage channel of Dove Hollow Brook, originating on the high ground where the turbines of Phase 2 are sited, is deeply incised and was likely created by glacial melting and seasonal run-off, although minor amounts of water continue to drain through it.

The surficial geology of the high ground, where the new turbine locations are proposed, is referred to as the Boss Point till (Pronk, A., Allard, S., and Boldon, R. 2005). Boss Point till consists of well-drained matrix, high in sand content (as much as 75%) with additional clay/silt. Three new locations for the Phase 2 turbines were assessed via pedestrian survey, as they were sufficiently distant enough from previously assessed locations to warrant a look. As with the turbine locations assessed earlier, these new areas fail to elicit any likelihood that an archaeological site of significance will be present (see Figures 9-11).

Two transmission line routes were also assessed, that link the northernmost turbine of Phase 2 with the Phase 1 grid. Both lines cross Dove Hollow Brook, one in a northerly direction and the other westerly. The elevation of the brook at the northernmost crossing is ~170 m asl, whilst the one further downstream is ~150 m asl. Dove Hollow Brook drains into the South Branch River and then into the Kennebecasis River. At the time of the assessment (after a period of rain), the brook was overflowing in many areas with a suspected normal channel width of ~1 m. On both sides of the deeply incised channel, small terraces were identified at stream's edge and part way up the bank (see Figures 5-8). The uppermost edge of the valley is also suitable for habitation.



Based on recommendations from the previous year's work along the transmission line that crosses the Kennebecasis River, from the first phase of turbine construction, several areas were highlighted for construction monitoring. Monitoring took place at structures 11, 12, 13, 17, 18 & 21 (see Figures 14-27). Detailed discussions prior to archaeological testing in 2018 indicated that the methodology that would be used to erect the structures would require a single trench (1 x 7 m) for the poles or for Structure 12 - three trenches and a small pit (4 x 4 m) for an anchor. When monitoring began, it was clear that there was a noticeable deviation in this methodology. The most notable change was the addition of local borrow pits for each structure. Pits were excavated for each pole/anchor to help with backfilling those trenches. These pits were mechanically excavated outside of the areas previously tested for archaeological remains.

Monitoring the mechanical excavation of the holes for the structures failed to return anything remarkable. As most of these areas had seen some archaeological excavation beforehand, the near surface geology was known. At Structure 11, an unexpected amount of fine sediments (~75 cm deep) was at the surface. Its elevation of 148 m asl precludes it from being alluvial, so is assumed to be colluvium from the nearby hill. An access road had to be built from Structure 20 to 21. This work largely entailed the removal of tree stumps, but did result in the tearing up of the ground surface through repeated use by small tracked vehicles. Most of the removal of the tree stumps was monitored. No significant cultural material was noticed during the construction monitoring phase or during the pedestrian survey.





## CONCLUSIONS & RECOMMENDATIONS

Between July 2<sup>nd</sup> and the 22<sup>nd</sup>, 2019, archaeological monitoring took place at six structure locations along the transmission line for the Wocawson Wind Farm near Sussex, NB. Additionally, a pedestrian survey was undertaken on November 20<sup>th</sup> to assess three new locations for turbines and transmission lines associated with future construction activities.

As with the other assessed turbine locations, the latest three locations failed to elicit any archaeological potential. However, construction activities for the transmission lines in the vicinity of Dove Hollow Brook have the potential to negatively impact any buried cultural remains that might be present. Consequently, **it is recommended that archaeological testing occurs in advance of any ground disturbing activity (removal of tree stumps, grubbing, grading etc) on the terraces in the Dove Hollow Brook valley and as much as 80 m away from the highest edge.**

If any change to the proposed footprint of this project is anticipated, then consultation with a permitted archaeologist should occur to ensure a minimal amount of damage to any buried heritage that may be present.



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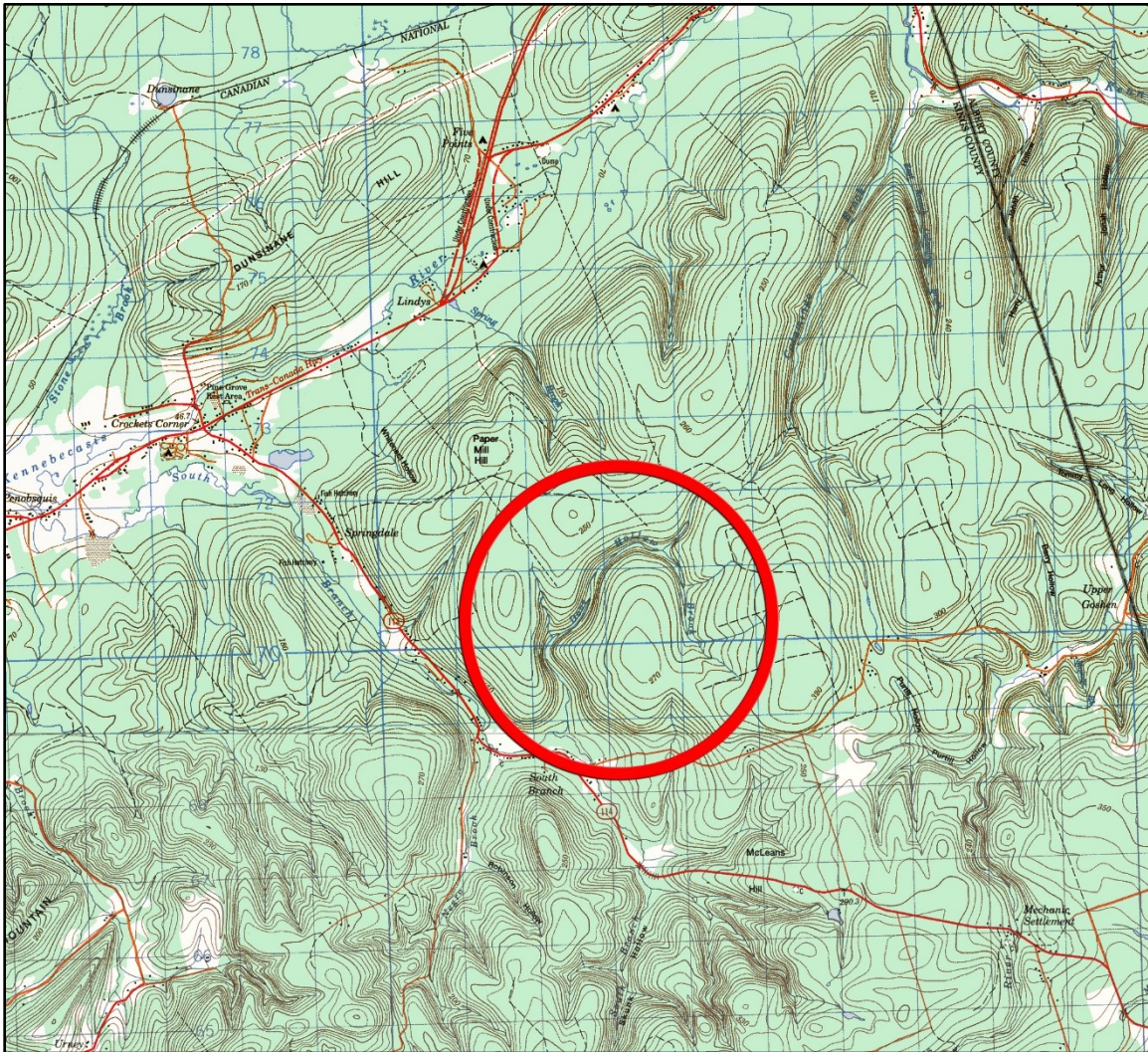
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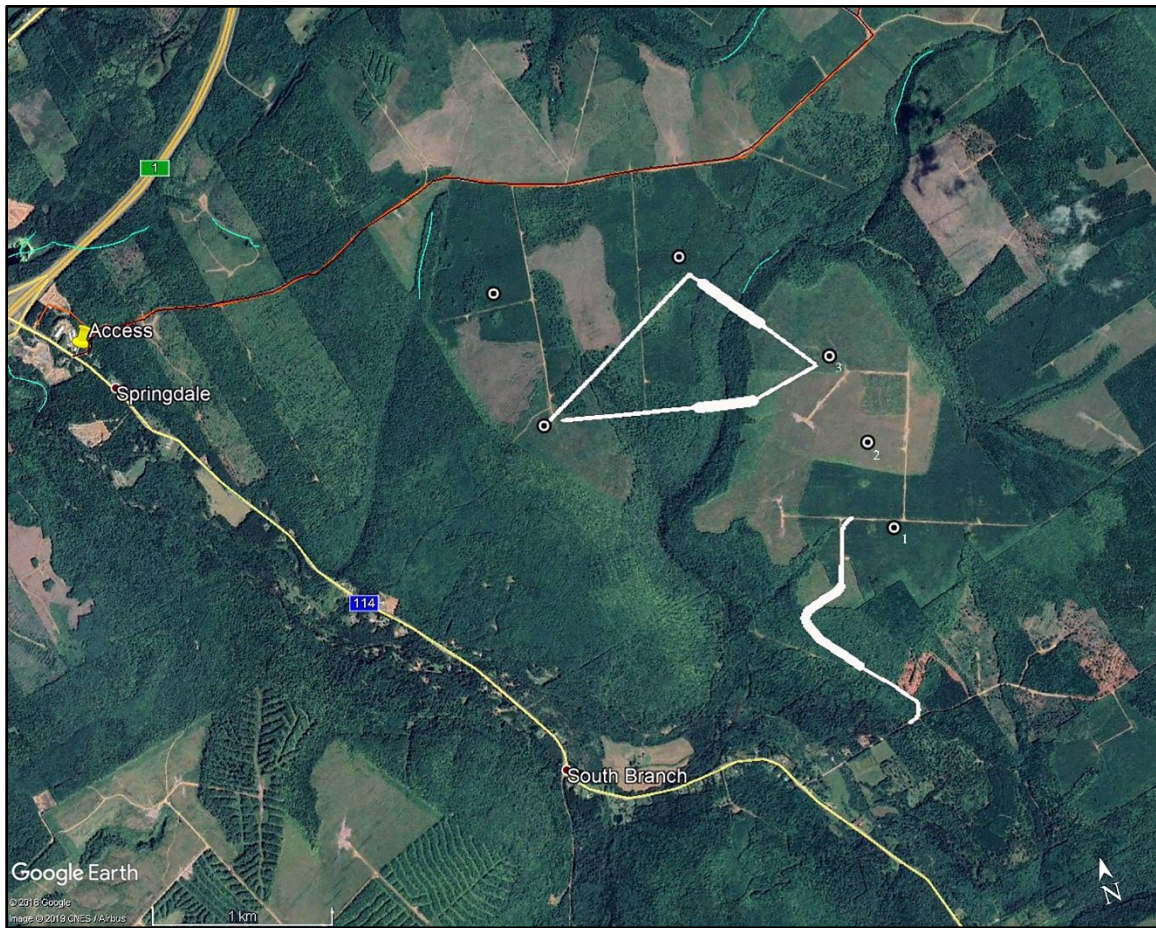
## APPENDIX





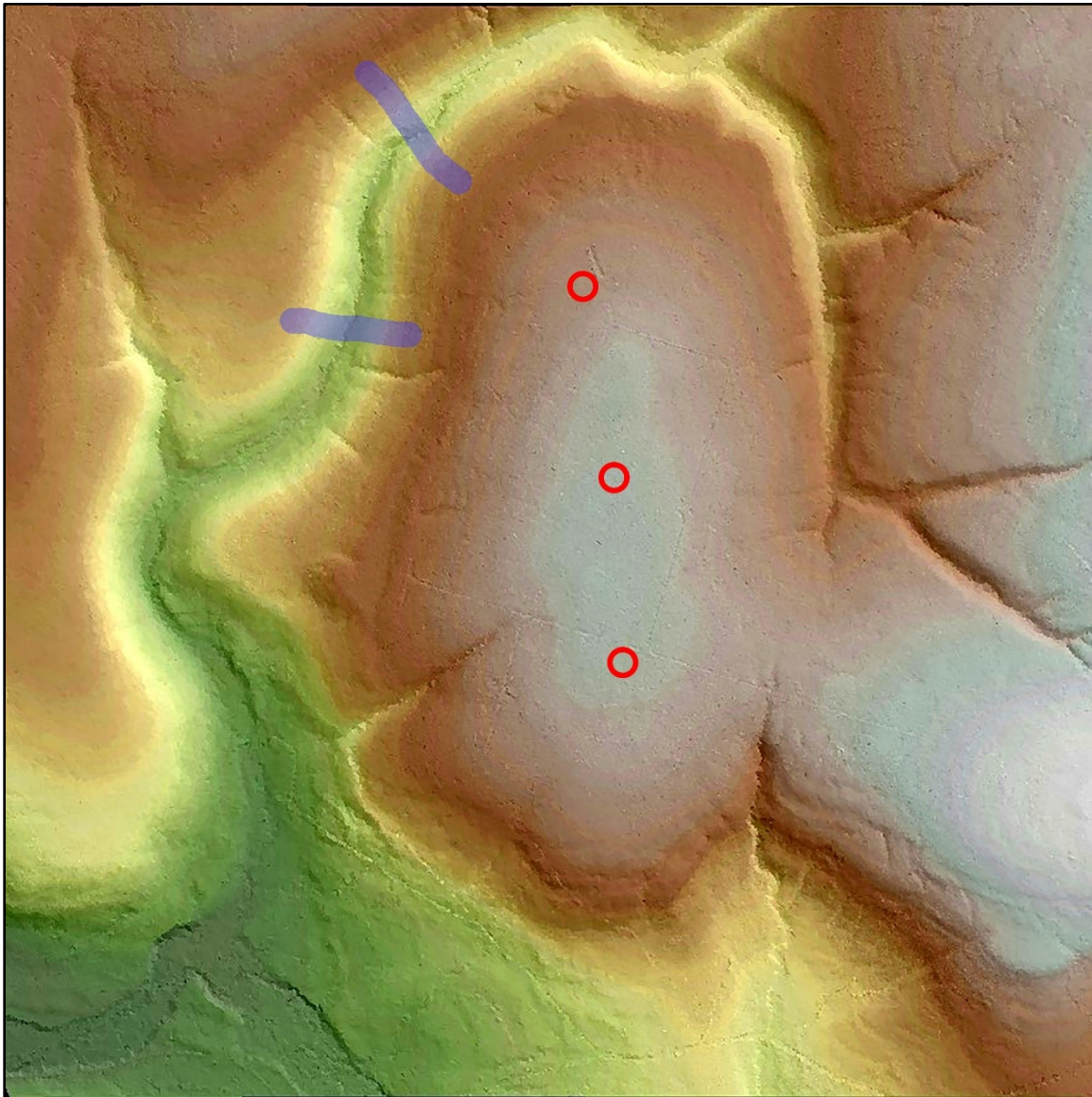
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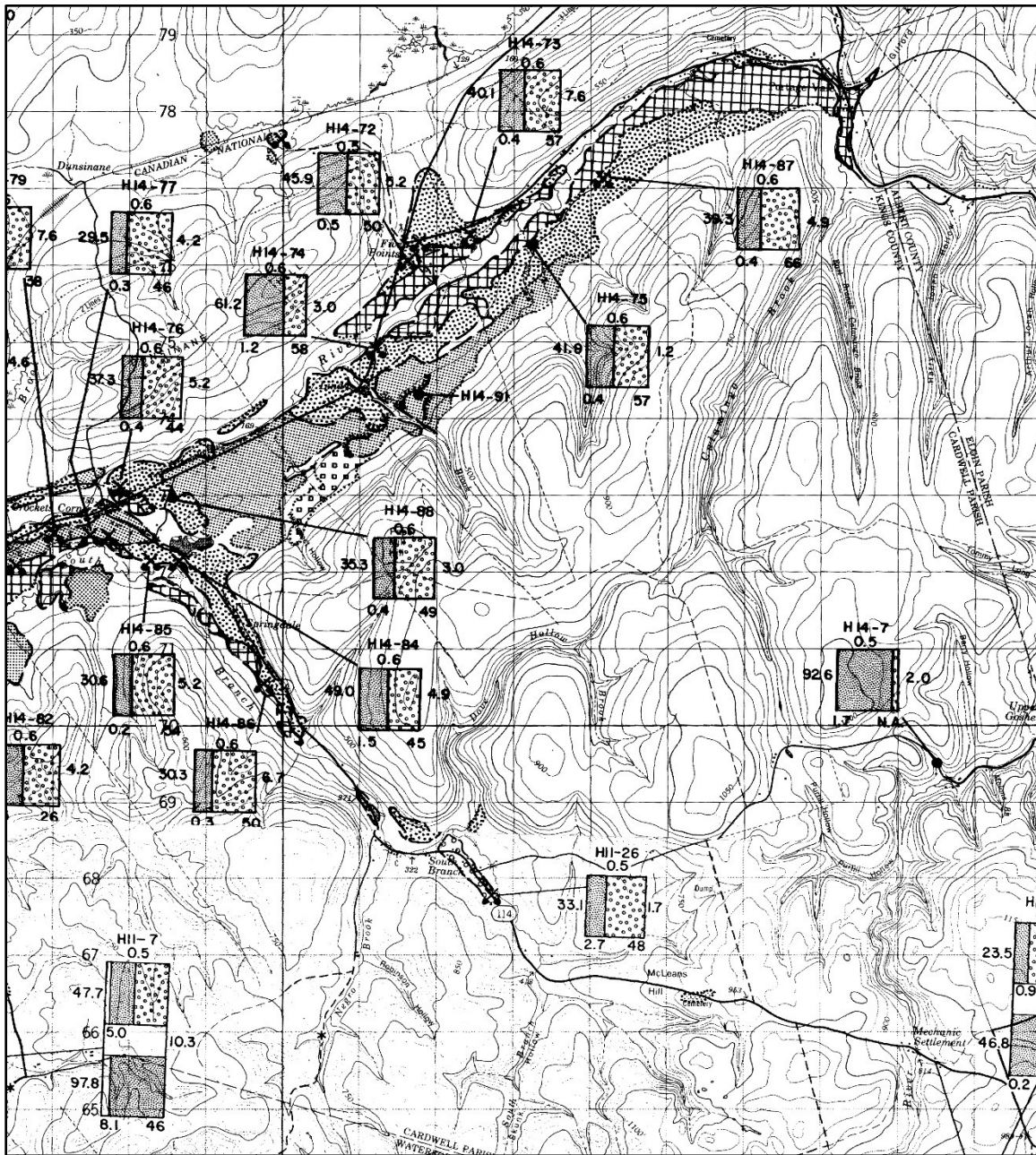
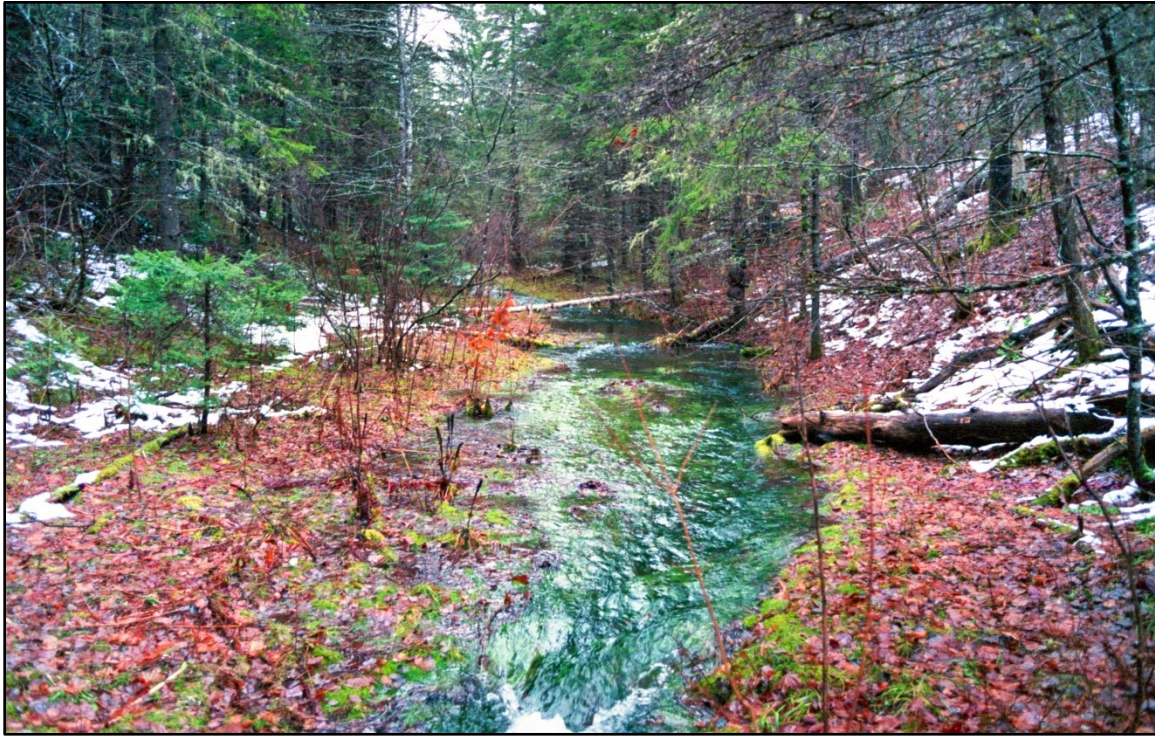


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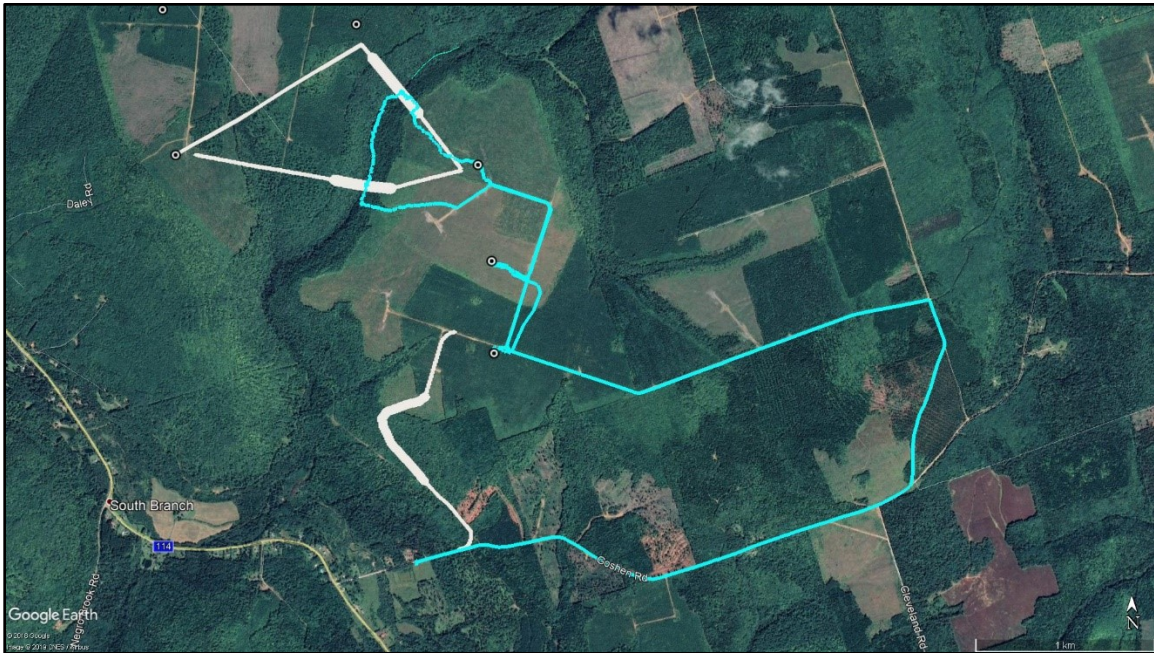
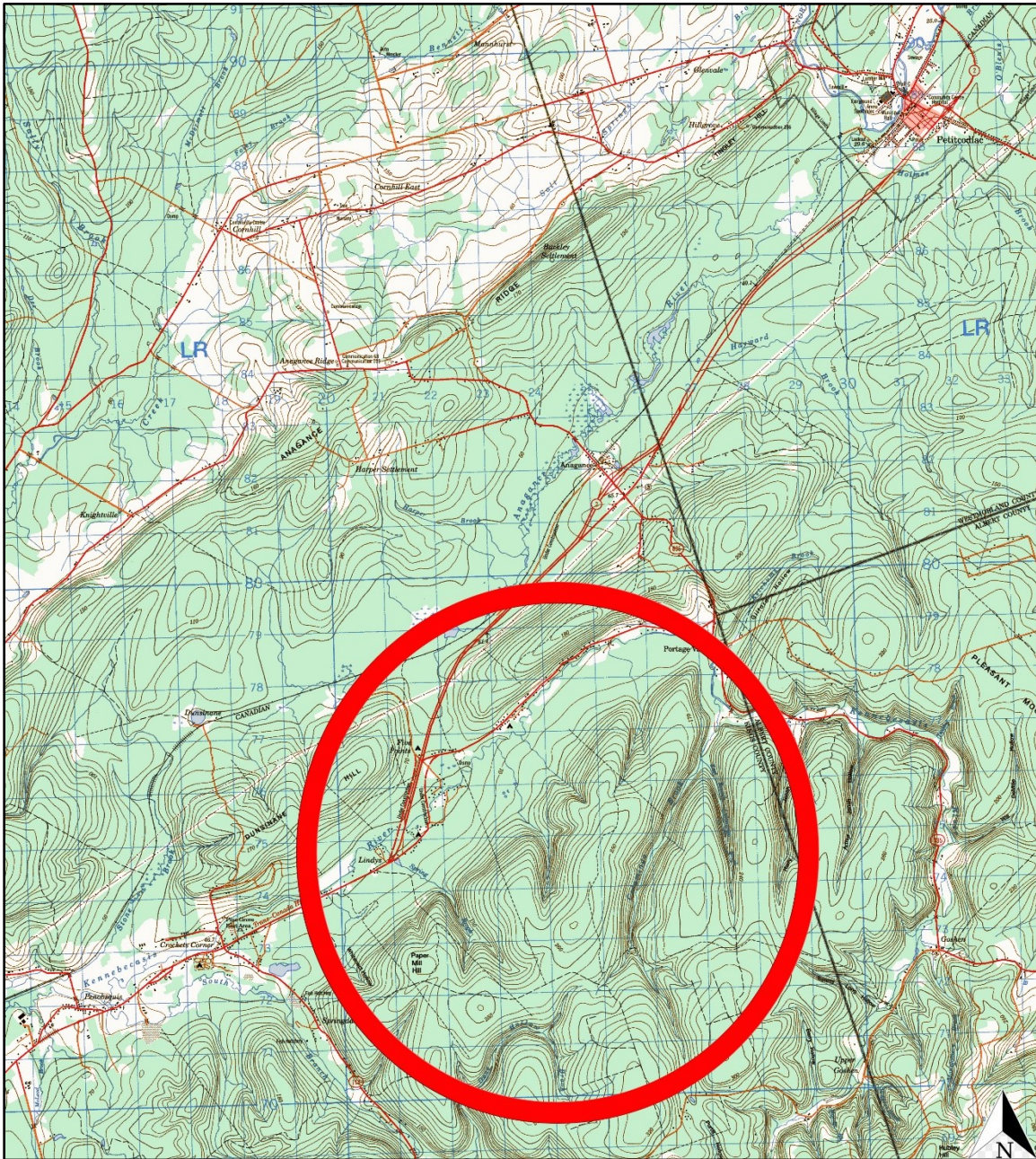


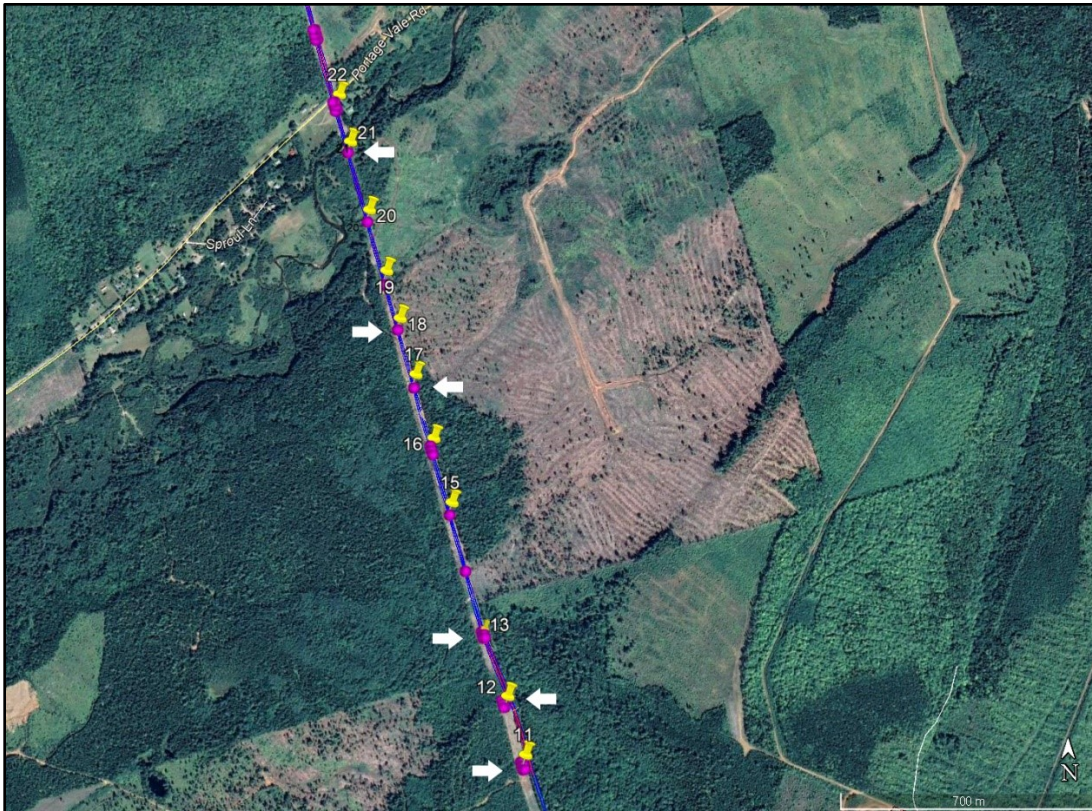
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