

# Breeding Bird Survey Report

## South Ripley Solar Project

Town of Ripley

Chautauqua County, New York

Prepared for:



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## MANAGEMENT SUMMARY

Primary Involved Agencies: New York State Department of Public Service (NYS DPS)  
New York State Department of Environmental Conservation (NYS DEC)

NYS DPS Article 10 Case Number: 19-F-0560

Type of Survey: Breeding Bird Survey

Location Information: Town of Ripley, Chautauqua County, New York

Facility Description: Proposed Solar Photovoltaic Electric Generating Facility (up to 270 MW)

Facility Area: Approximately 4,500 acres

USGS 7.5-Minute Quadrangle Maps: South Ripley, NY and North East, PA

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Date of Report: September 2020

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## 1.0 INTRODUCTION

### 1.1 Purpose of the Investigation

On behalf of ConnectGen Chautauqua County LLC (ConnectGen or the Applicant), Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR) has prepared this Breeding Bird Survey Report (Report) for the proposed South Ripley Solar Project (herein, the Facility), located in the Town of Ripley in Chautauqua County, New York. The results are intended to inform the Applicant in the development of the Facility, and also assist the New York State Department of Environmental Conservation (NYSDEC) and other New York State agencies in their review of the proposed Facility in accordance with the requirements of the Article 10, Section 94-c, and/or 6 NYCRR Part 182 regulations, as applicable.

The primary purpose of the breeding bird surveys conducted in 2020 was to identify and document avian species that utilize a variety of different habitats within the lands being evaluated to host the Facility (the Facility Area) during the breeding season. Based on consultation with the NYSDEC and the New York Natural Heritage Program (NYNHP), no state-listed threatened or endangered avian species have been documented within the Facility Area; however, bald eagle (*Haliaeetus leucocephalus*) has been documented within 0.75 mile of the Facility Area. Therefore, breeding bird surveys were also conducted to evaluate potential presence/use by state-listed bird species and inform a determination regarding the presence or absence of occupied habitat.<sup>1</sup> The breeding bird surveys were conducted by qualified biologists following recommendations provided by NYSDEC staff and the methodology established in the 2015 NYSDEC *Survey Protocol for State-listed Breeding Grassland Bird Species* (NYSDEC Survey Protocol; provided within Appendix A). The scope of these surveys was defined in a Breeding Bird Survey Work Plan that was submitted for NYSDEC staff review and comment in May 2020 (see Appendix A).

### 1.2 Facility Location and Description

The Applicant is proposing to construct an up to 270-megawatt (MW) solar powered electric generating facility with up to 20 MW of battery energy storage capacity within the Town of Ripley, Chautauqua County, New York (see Figure 1). The Facility is anticipated to produce enough clean, renewable electricity to power approximately 67,000 New York households. The proposed Facility will include installation of solar photovoltaic (PV) panels, a collection substation, a switching station, an operations and maintenance building, temporary laydown areas, collection lines, and associated access roads and fencing. Approximately 4,500 acres of rural land are currently being evaluated to host the Facility

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<sup>1</sup>According to 6 NYCRR Part 182.2, occupied habitat is defined as follows: (o) Occupied habitat means a geographic area in New York within which a species listed as endangered or threatened in this Part has been determined by the department [i.e., the NYSDEC] to exhibit one or more essential behaviors.

(the Facility Area; see Figure 2). The Facility Area represents the broader area being studied, within which specific parcels will be selected for the siting, design, construction, and operation of the Facility. The Facility will ultimately be sited on approximately 2,000 acres of private land acquired and/or leased within the Facility Area. Much of the Facility will be constructed in areas where disturbance has already occurred (e.g., actively managed agricultural fields) in order to minimize the need for vegetation removal within forested and wetland areas.

## **2.0 BACKGROUND INFORMATION**

### **2.1 Existing Conditions**

The Applicant has gathered information on the existing ecological conditions within the Facility Area to support the siting process. This has included multiple reconnaissance-level field investigations of existing on-site conditions and a desktop review of the Facility Area to inform the design of the breeding bird study. In addition, winter raptor surveys were conducted during the 2019-2020 season. Based on these assessments, the Facility Area is primarily composed of deciduous forestland and agricultural land that is actively managed to produce field crops (primarily hay and wheat). In addition, the Facility Area includes row cropland, fallow agricultural fields, successional shrubland, forested wetlands, emergent wetlands, scrub-shrub wetlands, and disturbed/developed land (primarily rural single-family housing units and farm buildings).

### **2.2 Agency Database Review and Consultation**

In addition to data collected on existing land use and ecological resources, the Applicant has engaged in consultation with federal and state agencies regarding the potential presence of threatened and endangered species within the Facility Area. This has included database review via the U.S. Fish and Wildlife Service (USFWS) online Information for Planning and Consultation (IPaC) system, as well as correspondence with the New York Natural Heritage Program (NYNHP). According to the IPaC system, the northern long-eared bat (*Myotis septentrionalis*; NLEB) is the only federally-listed species that potentially occurs within the Facility Area (see Appendix A). The NLEB is federally-listed as threatened. Correspondence with the NYNHP began with the submittal of a formal request for information regarding state and federally-listed endangered and threatened species within the Facility Area on August 21, 2019. A response letter received from the NYNHP on September 15, 2019 stated that two significant natural communities noted as high quality occurrences are present within the Facility Area. These include a confined river wetland/aquatic community and a hemlock-northern hardwood forest upland/terrestrial community. Additionally, one state-listed endangered plant species, tall ironweed (*Vernonia gigantea*), has been documented within 0.35 mile of the Facility Area (see Appendix A). The NYNHP letter did not reveal known occurrences of state-listed bird species within the Facility Area.

Following receipt of this NYNHP response letter, EDR initiated further consultation with NYSDEC Central Office staff and NYSDEC Region 9 staff to obtain occurrence records for any additional state-listed species that may have been documented by the NYSDEC or the NYNHP in the vicinity of the Facility Area. Specifically, the Applicant and EDR spoke with NYSDEC Central Office staff on September 18, 2019 regarding the NYNHP response letter and the potential for additional state-listed species data. On November 6, 2019, the NYSDEC Central Office provided additional occurrence data for the Facility Area and its vicinity in accordance with a previously executed non-disclosure agreement (NDA). In this response, NYSDEC stated that “[t]here are no records of State-listed threatened or endangered grassland bird species within the project area, however some suitable habitat exists on site that may support wintering or breeding grassland birds.”

In addition, EDR corresponded with NYSDEC Region 9 staff in mid-October 2019 regarding additional state-listed species data that may not currently be integrated with the NYNHP database. On October 21, 2019, NYSDEC Region 9 staff provided a response indicating that NYSDEC Region 9 was not aware of any additional records. Finally, a conference call was held with NYSDEC staff on April 3, 2020 during which the NYSDEC recommended submitting another request to the NYNHP for any updated state-listed species data. A second request was submitted to the NYNHP on April 28, 2020, and the response letter received on May 21, 2020 indicated that bald eagle has been documented within 0.75 mile of the Facility Area. The Applicant will continue consultations to ensure that the most current state-listed species information is being considered during the development process.

### **3.0 BREEDING BIRD SURVEYS**

#### **3.1 Survey Period and Frequency**

The avian breeding season in New York can begin as early as April 23 and can end as late as August 15 (NYSDEC, No Date). The NYSDEC Survey Protocol further specifies that the optimal period for detecting state-listed grassland bird species is from May 20 through July 20. Therefore, breeding bird surveys are typically conducted during this eight or nine week window during the breeding season. May 2020 surveys for the Facility could not be conducted due to mandated work restrictions resulting from the COVID-19 health crisis, as well as parcel access restrictions. Because of these restrictions, breeding bird surveys for the Facility were conducted between June 4, 2020 and July 31, 2020. Surveys were extended through the end of July to allow for additional data collection and coverage. Surveys were conducted weekly throughout the survey period, and on each survey day, surveys occurred between 30 minutes before sunrise and until no later than 10:30 a.m.

### 3.2 Survey Locations and Methodology

As described in the Breeding Bird Survey Work Plan that was reviewed by the NYSDEC (Appendix A), the primary method for surveying breeding birds consisted of five-minute point count surveys that were conducted along transects within the Facility Area. Originally, a total of 35 point count locations were proposed along 13 transects; however, some survey locations were amended in response to comments provided by the NYSDEC on June 1, 2020 (primarily to improve coverage of forest and forest edge habitats) and due to parcel access/participation considerations.

The final study design included a total of 36 point count locations designated along 14 transects that were between 227 and 1,128 meters (m) long, with an average length of 650 m (see Figure 3). Point count locations were spaced apart by at least 250 m to minimize the potential for overlapping detections and improve spatial coverage of the Facility Area. Survey locations were selected to provide representative coverage of a variety of different ecological community and habitat types found within the Facility Area, including field cropland used for hay and wheat production, pastureland, active and fallow row cropland, successional old fields, successional shrubland, and forestland.

Surveys were conducted weekly under conditions that were conducive to: (1) hearing bird vocalizations; and (2) seeing birds move about in vegetation and in flight. Surveys were not conducted when conditions could significantly reduce detectability (e.g., high winds, steady precipitation, fog, extreme temperatures). Transects were surveyed in a different order each week to minimize sampling bias, as detectability of some species can vary at different times of day. In addition, survey locations that were not surveyed in a given week due to unsuitable conditions or access restrictions were preferentially surveyed the following week to allow for adequate coverage throughout the survey period.

Surveys were conducted by qualified biologists with experience and training in both acoustic and visual identification of birds in New York. Upon arriving at each point count location, biologists waited for a minimum of one minute before beginning the five-minute survey (to allow birds to habituate to the presence of the observer). During the survey, biologists recorded all birds seen and heard. Visual identification was aided by the use of binoculars with 8x or 10x magnification. Incidental species that were heard or seen along survey transects between point count survey periods were also recorded, including any state-listed endangered or threatened species, species of special concern (SSC), or species of greatest conservation need (SGCN) (NYSDEC, 2015a; NYSDEC, 2015b). Standardized four-letter alpha (i.e., AOU) codes were used for each avian species (Pyle and DeSante, 2019).

The following data were recorded for each point count survey:

- Survey date;
- Observer name;

- Location ID;
- Start time and end time;
- Weather conditions including temperature, wind speed, precipitation, and cloud cover;
- Species and number of each individual bird observed;
- Time period within which each observation was made (0-3 minutes [min] or 3-5 min);
- Distance of each identified bird from the observer (recorded as 0-50 m, 50-100 m, or greater than 100 m);
- Location coordinates for all state-listed threatened or endangered species observed; and
- Observed behaviors and signs of breeding (if any) for each individual bird (e.g., feeding young, carrying food or fecal sac, at/in nest, nest building, copulation, courtship display, singing, drumming, calling, flying over, perching).

### 3.3 Data Analysis

#### *Abundance, Use, Composition, and Frequency for Avian Species Observed*

Several metrics were calculated for each avian species observed during the breeding bird surveys. First, the total number of observations was computed for each species. Total observations included all observations recorded within 100 m of point count locations, all observations recorded more than 100 m from point count locations, and all incidental observations (i.e., those recorded before, after, and between timed point count surveys). Observations were considered equivalent to individuals for the purpose of the analysis, as it is not always possible to discern among individuals of the same species during surveys (i.e., the same individuals may or may not be present at the same locations from week to week). Second, avian use was calculated for each species by dividing the number of observations recorded by the total number of point count surveys conducted. Composition was also calculated – this reflected the percentage of point count survey observations that were of a given species. Finally, frequency was calculated as the percentage of point count surveys during which a given species was recorded. To more accurately describe the bird community observed in the actual habitat area surrounding each point count survey location, only observations recorded within 100 m of the point count locations were used in the analysis of bird use, composition, and frequency.

#### *Spatial Use, Richness, and Diversity*

Data analysis also included a review of the variability in bird use, species richness, and species diversity across the Facility Area. Spatial avian use was calculated for each survey location by dividing the total number of observations recorded (for all species) by the total number of surveys conducted. The result represented the mean number of observations recorded at a given survey location. Species richness was determined for each survey location by tallying the total number of species recorded at each survey location throughout the entire survey period. Finally, species diversity was determined for each survey location using the total number of species recorded over the course of the

breeding season. The result represented the mean number of species observed during surveys at each survey location. Spatial use, richness, and diversity calculations included incidental observations and observations beyond 100 m.

#### *Incidental and Special Status Species Observations*

Birds observed before, after, and between point count surveys were recorded during surveys, along with all special status species (i.e., endangered, threatened, SSC, and/or SCGN) detected while biologists were on-site.

### **3.4 Survey Results**

Surveys were conducted once per week between June 4 and July 31, 2020. In total, surveys were completed on 12 different days, representing 235 breeding bird point count surveys and more than 78 survey-hours (4,680 survey-minutes). Between eight and 27 point count surveys were completed for each transect. Completed survey information (including date, time, and duration) is summarized below in Table 1 (see Section 6.0).

A total of 2,530 individual birds of 81 species were recorded within 100 m of point count locations. Red-winged blackbird (*Agelaius phoeniceus*) was the most abundant species recorded at the Facility Area, with 467 observations, which accounted for 18% of all observations. Other highly abundant species included bobolink (*Dolichonyx oryzivorus*) (369 observations) and song sparrow (*Melospiza melodia*) (272 observations). Together, these three species accounted for approximately 44% of all observations. Song sparrow was the species most frequently observed; it was recorded during more than 52% of surveys. Red-winged blackbird was the second-most frequently observed species (approximately 51% of surveys). Table 2 (see Section 6.0) provides a summary of abundance (total number of species observed), use (observations/total number of surveys), composition (percent of species observations/total observations), and frequency (percentage of surveys during which the species was recorded) for each species observed.

Spatially, transect 1 had the highest mean species diversity at 22.50 species per survey, followed by transects 6 (22.00 species per survey) and 8 (21.80 species per survey). Transects 11 and 10 had the lowest species diversity at 5.66 and 12.55 species per survey, respectively. Transects 5 and 12 had the highest overall number of species, with 49 species recorded over the course of the season. Transect 11 also had the lowest overall number of species, with 17 species recorded. The highest avian use was recorded at transect 2, with an average of 23.80 birds recorded per survey. Table 3 (see Section 6.0) provides a summary of abundance, use, species richness, and species diversity for each transect.

In addition to avian data, habitat and vegetation data were collected weekly at each survey location, and included observations of plant species, canopy cover, shrub cover, herbaceous plant cover, vegetation height, and land

management activities (including factors that could potentially alter avian behavior or use). The dominant cover type at survey locations was active field cropland used for hay or wheat production; however, areas characterized by pastureland, active and fallow row cropland, successional old fields, successional shrubland, and forestland were also surveyed. Dominant cover type and mean vegetation height are summarized for each survey location and survey date in Appendix B.

Data were also recorded for birds observed more than 100 m from the survey points and incidentally between surveys; these results included seven additional species that were not observed within 100 m of the survey points. There were also several observations of species that were only recorded in flight (e.g., mallard [*Anas platyrhynchos*], great blue heron [*Ardea herodias*]); these species may or not use habitat within the Facility Area. Incidental species, including numbers of observations for each species, are included in Table 2.

A detailed breeding code analysis was not performed (NYBBA, 2020). However, as noted in Table 2, approximately 84% of all species observed exhibited behaviors consistent with breeding within the Facility Area, based on observations made throughout the breeding season of singing males or pairs in suitable breeding habitat. A complete list of observations made during point count surveys and incidentally is provided in Appendix C.

### **3.4.1 Special Status Species**

No state-listed threatened or endangered species were observed during surveys. However, two state-listed SSC were observed during or in between surveys. Specifically, one Cooper's hawk (*Accipiter cooperii*) was seen in the vicinity of transect 1 on July 14, 2020, and grasshopper sparrows (*Ammodramus savannarum*) were heard singing from point count locations 8A and 8B on June 12, 2020, and from point count locations 5A and 5B on June 22, 2020. Additional details for SSC observations are provided in Table 4.

Four High Priority SGCN (NYSDEC, 2015b) were recorded during surveys: bobolink, brown thrasher (*Toxostoma rufum*), Eastern meadowlark (*Sturnella magna*), and grasshopper sparrow (also a SSC; refer to the previous paragraph). Bobolinks were observed along all survey transects, and throughout the entire survey period. Brown thrashers were documented near point count location 11A and within 100 meters of point count location 6C. Eastern meadowlarks were recorded on 63 occasions along all transects except 11 and 14.

Five SGCN (NYSDEC, 2015b) were also observed at the site. These species included American woodcock (*Scolopax minor*), black-billed cuckoo (*Coccyzus erythrophthalmus*), blue-winged warbler (*Vermivora cyanoptera*), scarlet tanager

(*Piranga olivacea*) and wood thrush (*Hylocichla mustelina*). Location and distance class information for SGCN observations is provided in Appendix C.

#### 4.0 SUMMARY

On behalf of ConnectGen, EDR prepared this Breeding Bird Survey Report for the proposed South Ripley Solar Project located in the Town of Ripley, Chautauqua County, New York. Breeding bird surveys were conducted by EDR biologists at 36 point count locations along 14 transects within the Facility Area between June 4 and July 31, 2020. A total of 235 point count surveys were conducted over a period of nine weeks, and between eight and 27 point count surveys were completed for each transect.

Overall, a total of 2,530 individuals of 81 different species were recorded within 100 m of point count locations. An additional seven species were recorded before or after timed point count surveys, beyond 100 m, and/or incidentally between points. No state-listed threatened or endangered species were observed within the Facility Area. Two species of special concern (Cooper's hawk and grasshopper sparrow) were recorded during surveys.

Red-winged blackbird was the most abundant species observed, followed by bobolink and song sparrow. Song sparrow was the species with the highest frequency (recorded during approximately 52% of surveys). Red-winged blackbird was the second-most frequent species recorded (approximately 51% of surveys). Survey transect 1 had the highest mean species diversity at 22.50 species per survey, and survey transects 5 and 12 had the highest overall number of species, with 49 species recorded over the course of the season.

Approximately 84% of species observed exhibited behaviors consistent with breeding (i.e., singing males or pairs in suitable breeding habitat). Therefore, breeding status is likely to be probable for many of these species. Of the more than 4,680 survey-minutes, there were no observations of state-listed threatened or endangered species. Therefore, it can be reasonably concluded that the Facility Area does not contain occupied habitat for breeding state-listed threatened or endangered avian species and Facility-related activities will not result in "take" of such species pursuant to 6 NYCRR Section 182.11 (Part 182).

## 5.0 REFERENCES

New York Breeding Bird Atlas (NYBBA). 2020. *Breeding Codes*. Available at: <https://ebird.org/atlasny/about/breeding-codes> (Accessed August 2020).

New York State Department of Environmental Conservation (NYSDEC). 2015a. *List of Endangered, Threatened and Special Concern Fish & Wildlife Species of New York State*. Available at: <http://www.dec.ny.gov/animals/7494.html> (Accessed August 2020).

NYSDEC. 2015b. *Species of Greatest Conservation Need (SGCN)*. Available at: <https://www.dec.ny.gov/animals/9406.html> (Accessed August 2020).

New York State Department of Environmental Conservation (NYSDEC). No Date. *Best Management Practices for Grassland Birds*. Available at: <http://www.dec.ny.gov/pubs/86582.html> (Accessed August 2020).

Pyle, P., and D.F. DeSante. 2019. *Four-letter (English Name) and Six-letter (Scientific Name) Alpha Codes*. The Institute for Bird Populations. Available at: [https://www.birdpop.org/docs/misc/Alpha\\_codes\\_eng.pdf](https://www.birdpop.org/docs/misc/Alpha_codes_eng.pdf) (Accessed August 2020).

6.0 TABLES

Table 1. Completed Survey Information

Survey Date	Transects Surveyed	Start Time (a.m.)	End Time (a.m.)	Number of Surveyors	Number of Survey-Hours <sup>1</sup>	Temperature (°F)	Sky Code(s) <sup>2</sup>	Wind Code(s) <sup>3</sup>
6/4/2020	Transects 1-7, 10, and 11	5:30	10:15	2	9:30	62-67	0	1-2
6/5/2020	Transects 7-9, 12 and 13	5:40	8:40	2	6:00	62-63	2-3	1-3
6/12/2020	Transects 1-13	5:30	10:00	2	9:00	56-61	0-1	1-3
6/18/2020	Transects 1-5 and 9-14	5:15	10:05	2	9:40	59-67	0-2	1-3
6/22/2020	Transects 2-12	5:50	9:56	2	8:12	65-78	1-4	1-3
7/1/2020	Transects 1-5 and 10-14	5:30	9:35	2	8:10	58-77	0-2	1-2
7/8/2020	Transects 3 and 5-12	5:30	9:00	2	7:00	67-76	1-3	1-2
7/14/2020	Transects 1, 2, 4, 13, and 14	5:42	9:15	1	3:33	56-61	1-2	1
7/16/2020	Transects 3, 7, and 10-12	5:46	9:20	1	3:34	74 (Average)	2	2
7/21/2020	Transects 2, 4, and 5-7	5:40	9:30	1	3:50	67-75	1-2	1
7/24/2020	Transects 8-12	6:10	9:40	1	3:30	65-68	1-2	1-2
7/31/2020	Transects 1-4, 7, and 10-14	6:04	9:30	2	6:52	63-66	0-1	1

<sup>1</sup>The total amount of time surveyors were conducting on-site surveys multiplied by the number of surveyors.

<sup>2</sup>0 = clear or a few clouds; 1 = partly cloudy/variable; 2 = cloudy/overcast; 3 = fog; 4 = drizzle; 5 = showers; 6 = rain.

<sup>3</sup>0 = calm; 1 = fog drifts; 2 = leaves rustle; 3 = leaves/twigs in constant motion; 4 = branches move; 5 = small trees sway.

**Table 2. Summary of Avian Species Observed**

Taxonomic Family (Group Name)	Species Common Name	Species Scientific Name	Alpha Code <sup>1</sup>	Within 100 m <sup>2</sup>	Beyond 100 m <sup>3</sup>	Incidental <sup>4</sup>	Total <sup>5</sup>	Avian Use <sup>6</sup>	Composition <sup>7</sup>	Frequency <sup>8</sup>	Activity Code <sup>9</sup>
Anatidae (Waterfowl)	Mallard	<i>Anas platyrhynchos</i>	MALL	0	0	1	1	0.00	0.00%	0.00%	FO
	Wood Duck	<i>Aix sponsa</i>	WODU	1	0	0	1	0.00	0.04%	0.42%	C
	Canada Goose	<i>Branta canadensis</i>	CANG	1	18	0	19	0.00	0.04%	0.42%	S
Icteridae (Blackbirds)	Baltimore Oriole	<i>Icterus galbula</i>	BAOR	4	4	2	10	0.01	0.16%	1.70%	S
	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	RWBL	467	270	1	738	1.98	18.46%	51.48%	S
	Bobolink	<i>Dolichonyx oryzivorus</i>	BOBO	369	111	28	508	1.57	14.58%	33.61%	S
	Common Raven	<i>Corvus corax</i>	CORA	2	9	0	11	0.01	0.08%	0.85%	S
	Brown-headed Cowbird	<i>Molothrus ater</i>	BHCO	5	1	1	7	0.02	0.20%	2.12%	S
	Eastern Meadowlark	<i>Sturnella magna</i>	EAME	38	18	7	63	0.16	1.50%	13.19%	S
	Common Grackle	<i>Quiscalus quiscula</i>	COGR	18	0	0	18	0.07	0.71%	3.40%	S
Columbidae (Pigeons and Doves)	Mourning Dove	<i>Zenaida macroura</i>	MODO	9	72	1	82	0.03	0.36%	3.40%	S
	Rock Pigeon	<i>Columba livia</i>	ROPI	0	4	0	4	0.00	0.00%	0.00%	I
Charadriidae (Plovers)	Killdeer	<i>Charadrius vociferus</i>	KILL	10	13	6	29	0.04	0.40%	3.89%	S
Ardeidae (Herons and Bitterns)	Great Blue Heron	<i>Ardea herodias</i>	GBHE	0	5	0	5	0.00	0.00%	0.00%	FO
Cathartidae (New World Vultures)	Turkey Vulture	<i>Cathartes aura</i>	TUVU	3	43	1	47	0.01	0.12%	1.27%	I
Accipitridae (Hawks and Eagles)	Cooper's Hawk	<i>Accipiter cooperii</i>	COHA	0	0	1	1	0.00	0.00%	0.00%	I
	Red-tailed Hawk	<i>Buteo jamaicensis</i>	RTHA	10	12	7	29	0.04	0.40%	3.40%	S
Cuculidae (Cuckoos)	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	YBCU	0	4	2	6	0.00	0.00%	0.00%	S
	Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	BBCU	2	6	0	8	0.01	0.08%	0.85%	S
Picidae (Woodpeckers)	Northern Flicker	<i>Colaptes auratus</i>	NOFL	7	14	0	21	0.02	0.28%	2.97%	S
	Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	RBWO	5	11	0	16	0.02	0.20%	2.12%	S
	Downy Woodpecker	<i>Dryobates pubescens</i>	DOWO	5	0	0	5	0.02	0.20%	1.70%	S
	Pileated Woodpecker	<i>Dryocopus pileatus</i>	PIWO	3	3	0	6	0.01	0.12%	1.27%	S
Tyrannidae (Flycatchers)	Acadian Flycatcher	<i>Empidonax vireescens</i>	ACFL	1	0	0	1	0.00	0.04%	0.42%	S
	Eastern Phoebe	<i>Sayornis phoebe</i>	EAPH	10	6	1	17	0.04	0.40%	4.25%	S
	Eastern Wood-Pewee	<i>Contopus virens</i>	EAWP	18	28	0	46	0.07	0.71%	6.80%	S
	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	GCFL	22	16	2	40	0.09	0.87%	8.51%	S
	Willow Flycatcher	<i>Empidonax traillii</i>	WIFL	50	18	3	71	0.21	1.98%	17.44%	S
	Alder Flycatcher	<i>Empidonax alnorum</i>	ALFL	23	8	5	36	0.09	0.91%	8.51%	S
	Eastern Kingbird	<i>Tyrannus tyrannus</i>	EAKI	4	0	1	5	0.01	0.16%	1.70%	S
Vireonidae (Vireos)	Blue-headed Vireo	<i>Vireo solitarius</i>	BHVI	1	0	0	1	0.00	0.04%	0.42%	S
	Warbling Vireo	<i>Vireo gilvus</i>	WAVI	4	2	2	8	0.01	0.16%	1.27%	S
	Red-eyed Vireo	<i>Vireo olivaceus</i>	REVI	35	29	0	64	0.14	1.38%	12.34%	S
Corvidae (Crows and Jays)	American Crow	<i>Corvus brachyrhynchos</i>	AMCR	22	151	0	173	0.09	0.87%	5.10%	S
	Blue Jay	<i>Cyanocitta cristata</i>	BLJA	19	28	0	47	0.08	0.75%	6.38%	S
Hirundinidae (Swallows)	Barn Swallow	<i>Hirundo rustica</i>	BARS	71	10	5	86	0.30	2.81%	17.44%	S
	Tree Swallow	<i>Tachycineta bicolor</i>	TRES	58	5	5	68	0.24	2.29%	12.76%	C
Paridae (Tits, Chickadees, and Titmice)	Tufted Titmouse	<i>Baeolophus bicolor</i>	TUTI	1	0	0	1	0.00	0.04%	0.42%	S
	Black-capped Chickadee	<i>Poecile atricapillus</i>	BCCH	11	15	0	26	0.04	0.43%	3.89%	S
Sittidae (Nuthatches)	White-breasted Nuthatch	<i>Sitta carolinensis</i>	WBNU	6	6	2	14	0.02	0.24%	2.55%	S

Taxonomic Family (Group Name)	Species Common Name	Species Scientific Name	Alpha Code <sup>1</sup>	Within 100 m <sup>2</sup>	Beyond 100 m <sup>3</sup>	Incidental <sup>4</sup>	Total <sup>5</sup>	Avian Use <sup>6</sup>	Composition <sup>7</sup>	Frequency <sup>8</sup>	Activity Code <sup>9</sup>
Troglodytidae (Wrens)	Winter Wren	<i>Troglodytes hiemalis</i>	WIWR	4	0	0	4	0.01	0.16%	0.85%	S
	House Wren	<i>Troglodytes aedon</i>	HOWR	19	23	2	44	0.08	0.75%	6.38%	S
Turdidae (Thrushes)	American Robin	<i>Turdus migratorius</i>	AMRO	72	117	1	190	0.30	2.85%	24.25%	S
	Swainson's Thrush	<i>Catharus ustulatus</i>	SWTH	2	1	0	3	0.01	0.08%	0.42%	S
	Wood Thrush	<i>Hylocichla mustelina</i>	WOTH	14	24	1	39	0.05	0.55%	4.25%	S
	Veery	<i>Catharus fuscescens</i>	VEER	3	2	2	7	0.01	0.12%	1.27%	S
	Eastern Bluebird	<i>Sialia sialis</i>	EABL	0	0	2	2	0.00	0.00%	0.00%	I
	Hermit Thrush	<i>Catharus guttatus</i>	HETH	3	3	0	6	0.01	0.12%	1.27%	S
Mimidae (Mimic Thrushes)	Brown Thrasher	<i>Toxostoma rufum</i>	BRTH	1	0	3	4	0.00	0.04%	0.42%	I
	Gray Catbird	<i>Dumetella carolinensis</i>	GRCA	39	28	2	69	0.16	1.54%	13.61%	S
Sturnidae (Starlings)	European Starling	<i>Sturnus vulgaris</i>	EUST	95	17	142	254	0.40	3.75%	3.40%	S
Bombycillidae (Waxwings)	Cedar Waxwing	<i>Bombycilla cedrorum</i>	CEDW	28	4	6	38	0.11	1.11%	8.08%	S
Fringillidae (True Finches)	American Goldfinch	<i>Spinus tristis</i>	AMGO	188	74	2	264	0.80	7.43%	34.04%	S
Passerellidae (Towhees and Sparrows)	Eastern Towhee	<i>Pipilo erythrophthalmus</i>	EATO	32	16	2	50	0.13	1.26%	11.06%	S
	Field Sparrow	<i>Spizella pusilla</i>	FISP	65	51	1	117	0.27	2.57%	19.57%	S
	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	GRSP	6	0	1	7	0.02	0.24%	1.70%	S
	Swamp Sparrow	<i>Melospiza georgiana</i>	SWSP	1	0	0	1	0.00	0.04%	0.42%	S
	Savannah Sparrow	<i>Passerculus sandwichensis</i>	SAVS	73	17	6	96	0.31	2.89%	21.27%	S
	Song Sparrow	<i>Melospiza melodia</i>	SOSP	272	73	4	349	1.15	10.75%	52.76%	S
	Dark-eyed Junco	<i>Junco hyemalis</i>	DEJU	2	2	0	4	0.01	0.08%	0.85%	S
	Chipping Sparrow	<i>Spizella passerina</i>	CHSP	12	4	1	17	0.05	0.47%	3.89%	S
Parulidae (Wood Warblers)	Common Yellowthroat	<i>Geothlypis trichas</i>	COYE	124	70	2	196	0.52	4.90%	40.25%	S
	Yellow Warbler	<i>Setophaga petechia</i>	YEWA	67	30	1	98	0.28	2.65%	21.70%	S
	Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	CSWA	9	3	0	12	0.03	0.36%	3.40%	S
	American Redstart	<i>Setophaga ruticilla</i>	AMRE	13	2	1	16	0.05	0.51%	4.25%	S
	Yellow-rumped Warbler	<i>Setophaga coronata</i>	YRWA	1	0	0	1	0.00	0.04%	0.42%	S
	Blue-winged Warbler	<i>Vermivora cyanoptera</i>	BWWA	5	1	4	10	0.02	0.20%	2.12%	S
	Ovenbird	<i>Seiurus aurocapilla</i>	OVEN	22	4	0	26	0.09	0.87%	6.38%	S
	Pine Warbler	<i>Setophaga pinus</i>	PIWA	1	0	0	1	0.00	0.04%	0.42%	S
	Hooded Warbler	<i>Setophaga citrina</i>	HOWA	6	1	0	7	0.02	0.24%	1.27%	S
	Black-throated Green Warbler	<i>Setophaga virens</i>	BTNW	2	1	1	4	0.01	0.08%	0.85%	S
Cardinalidae (Cardinals, Grosbeaks, and allies)	Northern Cardinal	<i>Cardinalis cardinalis</i>	NOCA	13	49	0	62	0.05	0.51%	4.68%	S
	Indigo Bunting	<i>Passerina cyanea</i>	INBU	4	0	1	5	0.01	0.16%	1.27%	S
	Scarlet Tanager	<i>Piranga olivacea</i>	SCTA	2	0	0	2	0.01	0.08%	0.85%	S
	Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	RBGR	6	1	1	8	0.02	0.24%	1.70%	S
Phasianidae (Gamebirds)	Wild Turkey	<i>Meleagris gallopavo</i>	WITU	3	1	8	12	0.01	0.12%	1.27%	C

Taxonomic Family (Group Name)	Species Common Name	Species Scientific Name	Alpha Code <sup>1</sup>	Within 100 m <sup>2</sup>	Beyond 100 m <sup>3</sup>	Incidental <sup>4</sup>	Total <sup>5</sup>	Avian Use <sup>6</sup>	Composition <sup>7</sup>	Frequency <sup>8</sup>	Activity Code <sup>9</sup>
Certhiidae (Treetreepers)	Brown Creeper	<i>Certhia americana</i>	BRCR	2	0	0	2	0.01	0.08%	0.85%	S
Falconidae (Falcons)	Merlin	<i>Falco columbarius</i>	MERL	0	0	1	1	0.00	0.00%	0.00%	FO
Scolopacidae (Shorebirds)	American Woodcock	<i>Scolopax minor</i>	AMWO	2	1	0	3	0.01	0.08%	0.85%	S
Rallidae (Rails)	Virginia Rail	<i>Rallus limicola</i>	VIRA	1	0	0	1	0.00	0.04%	0.42%	C
Alcedinidae (Kingfishers)	Belted Kingfisher	<i>Megaceryle alcyon</i>	BEKI	1	0	0	1	0.00	0.04%	0.42%	FO

<sup>1</sup>Species Codes are based on standardized four-letter AOU alpha codes defined by the Institute for Bird Populations ([https://www.birdpop.org/docs/misc/Alpha\\_codes\\_eng.pdf](https://www.birdpop.org/docs/misc/Alpha_codes_eng.pdf)).

<sup>2</sup>Includes all observations recorded within 100 meters of point count survey locations during 5-minute point count surveys.

<sup>3</sup>Includes all observations recorded more than 100 meters from point count survey locations during 5-minute point count surveys.

<sup>4</sup>Includes all observations recorded incidentally (before, after, and between 5-minute point count surveys).

<sup>5</sup>Includes all observations recorded during 5-minute point count surveys and incidentally.

<sup>6</sup>Represents the mean number of birds recorded per 5-minute point count survey (based on all observations recorded within 100 meters of point count survey locations).

<sup>7</sup>Reflects the percentage of point count survey observations that were of the species (based on all observations recorded within 100 meters of point count survey locations).

<sup>8</sup>Represents the percentage of 5-minute point count surveys during which the species was recorded (based on all observations recorded within 100 meters of point count survey locations).

<sup>9</sup>Represents the activity or behavior observed (based on all observations) that was most indicative of on-site breeding, based on the following hierarchy: FY = feeding young; CF = carrying food or fecal sac; AN = at/in nest; NB = nest building; CO = copulation; CD = courtship display; S = singing; D = drumming; C = calling; I = individual seen flying/perching/walking but remaining within site; FO = flyover of site (continued beyond site boundaries).

**Table 3. Summary of Avian Metrics for each Survey Transect**

Survey Transect	Habitat Type(s)	Number of Point Count Surveys	Total Observations	Avian Use <sup>1</sup>	Species Richness <sup>2</sup>	Species Diversity <sup>3</sup>
Transect 1	Field Cropland (Hay and Wheat), Forestland	23	414	18.00	47	22.50
Transect 2	Field Cropland (Wheat), Row Cropland (Fallow)	15	357	23.80	32	13.00
Transect 3	Pastureland, Field Cropland (Hay), Forestland	16	224	14.00	36	12.62
Transect 4	Successional Old Field, Forestland	22	290	13.18	43	16.62
Transect 5	Field Cropland (Hay), Successional Old Field, Successional Shrubland, Forestland	25	415	16.60	49	20.71
Transect 6	Field Cropland (Hay), Pastureland, Successional Old Field, Successional Shrubland	15	304	20.27	46	22.00
Transect 7	Field Cropland (Hay), Pastureland	13	269	20.69	29	13.85
Transect 8	Field Cropland (Hay), Row Cropland (Corn), Forestland	15	258	17.20	45	21.80
Transect 9	Field Cropland (Hay)	17	360	21.18	33	16.66
Transect 10	Pastureland	18	335	18.61	37	12.55
Transect 11	Field Cropland (Hay)	9	190	21.11	17	5.66
Transect 12	Field Cropland (Hay), Forestland, Pastureland	27	335	12.41	49	16.88
Transect 13	Field Cropland (Hay)	12	227	18.92	36	14.33
Transect 14	Field Cropland (Hay), Forestland	8	112	14.00	31	12.75

<sup>1</sup>The mean number of observations recorded during 5-minute point count surveys.

<sup>2</sup>The total number of species observed at the survey location.

<sup>3</sup>The mean number of species observed during 5-minute point count surveys.

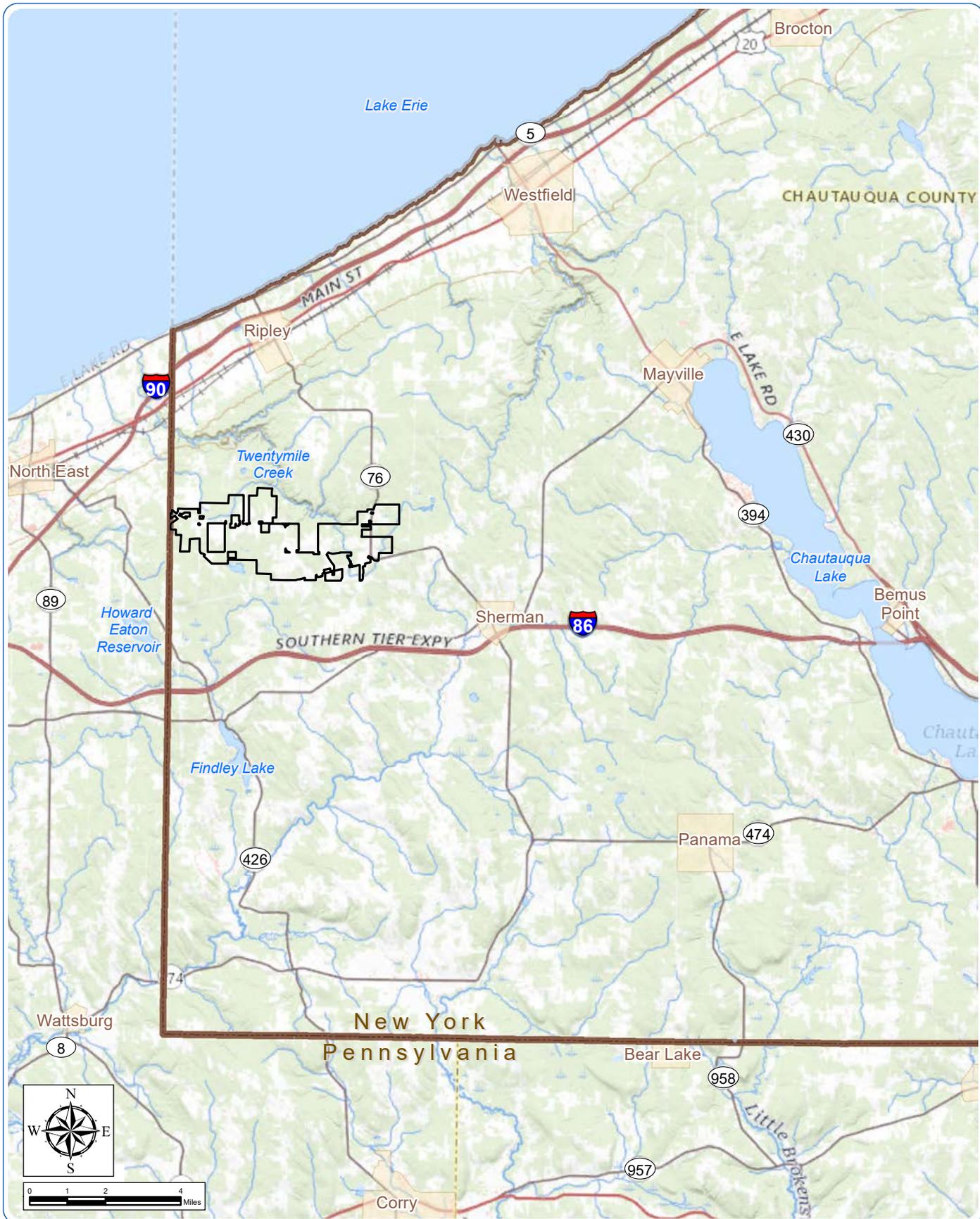
**Table 4. State-Listed Species Observations**

Species Common Name	Species Scientific Name	Conservation Status <sup>1</sup>	Number of Individuals	Sex	Date	Time (a.m.)	Location <sup>2</sup>	Behavior(s)	Description
Cooper's Hawk	<i>Accipiter cooperii</i>	Special Concern	1	Unknown	7/14/2020	7:07	East of Transect 1	Individual Seen (Perched/Flying)	Observed from vehicle near the intersection of Miller Road and NE Sherman Road
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Special Concern	7	Male	6/12/2020 and 6/22/2020	6:10-9:38	5A, 5B, 8A, 8B	Singing	Heard within 50 m of point 5A, within 50 m of point 5B, within 100 m of point 8A, and within 50 m of point 8B

<sup>1</sup>Highest conservation status based on the List of Endangered, Threatened and Special Concern Fish & Wildlife Species of New York State (<https://www.dec.ny.gov/animals/7494.html>).

<sup>2</sup>Reflects the point count location(s), survey transect, or other location from which observations were made.

## FIGURES



### South Ripley Solar Project

Town of Ripley, Chautauqua County, New York  
Breeding Bird Survey Report

**Figure 1: Regional Facility Location**

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service.  
2. This map was generated in ArcMap on June 29, 2020. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

-  Facility Area
-  State Boundary

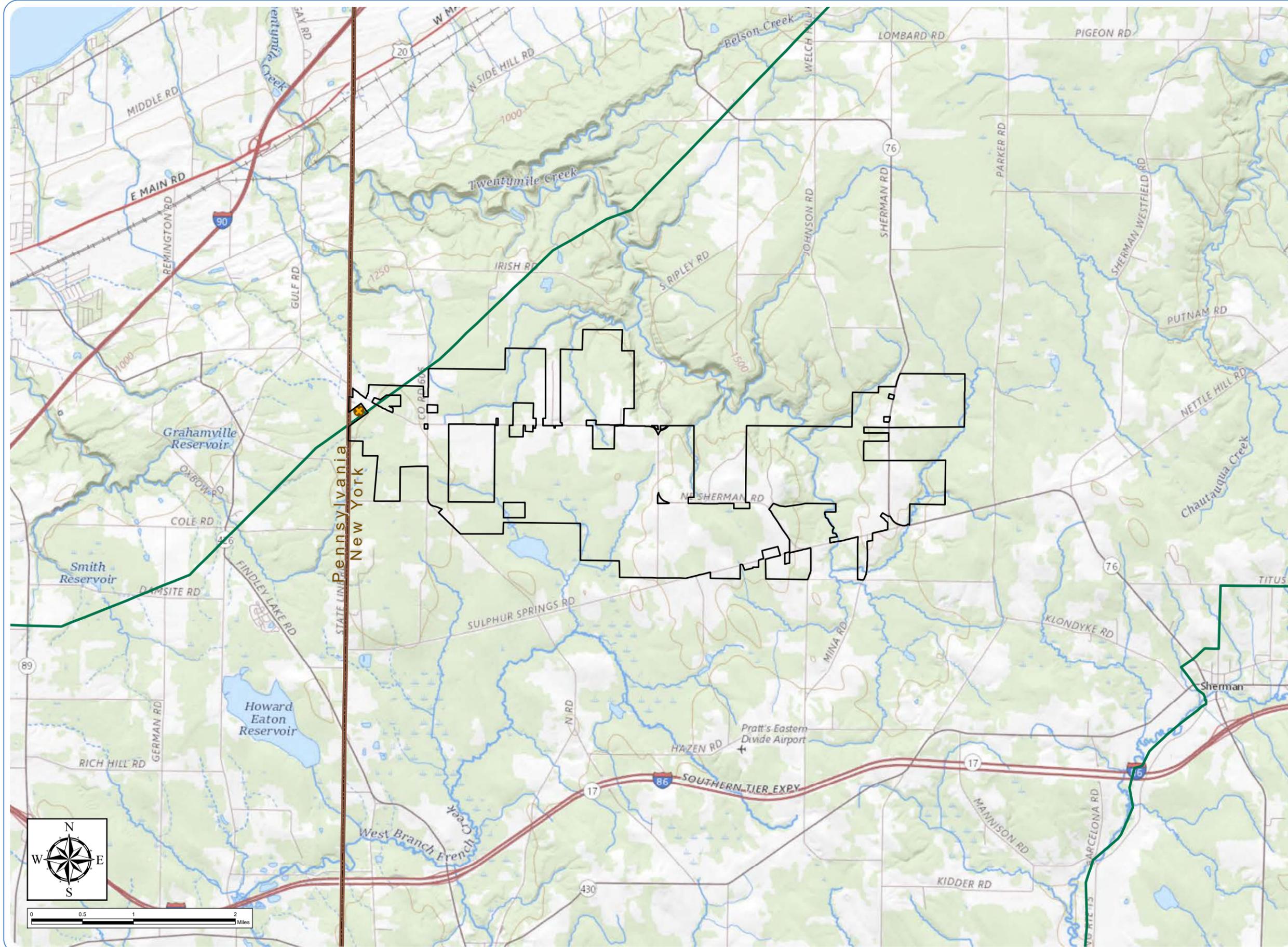


# South Ripley Solar Project

Town of Ripley, Chautauqua County, New York

Breeding Bird Survey Report

Figure 2: Facility Area



- Existing Substation
- Existing Transmission Line
- Facility Area
- Town Boundary
- State Boundary

Notes: 1. Basemap: ESRI ArcGIS Online "USGSTopo" map service. 2. This map was generated in ArcMap on June 29, 2020. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

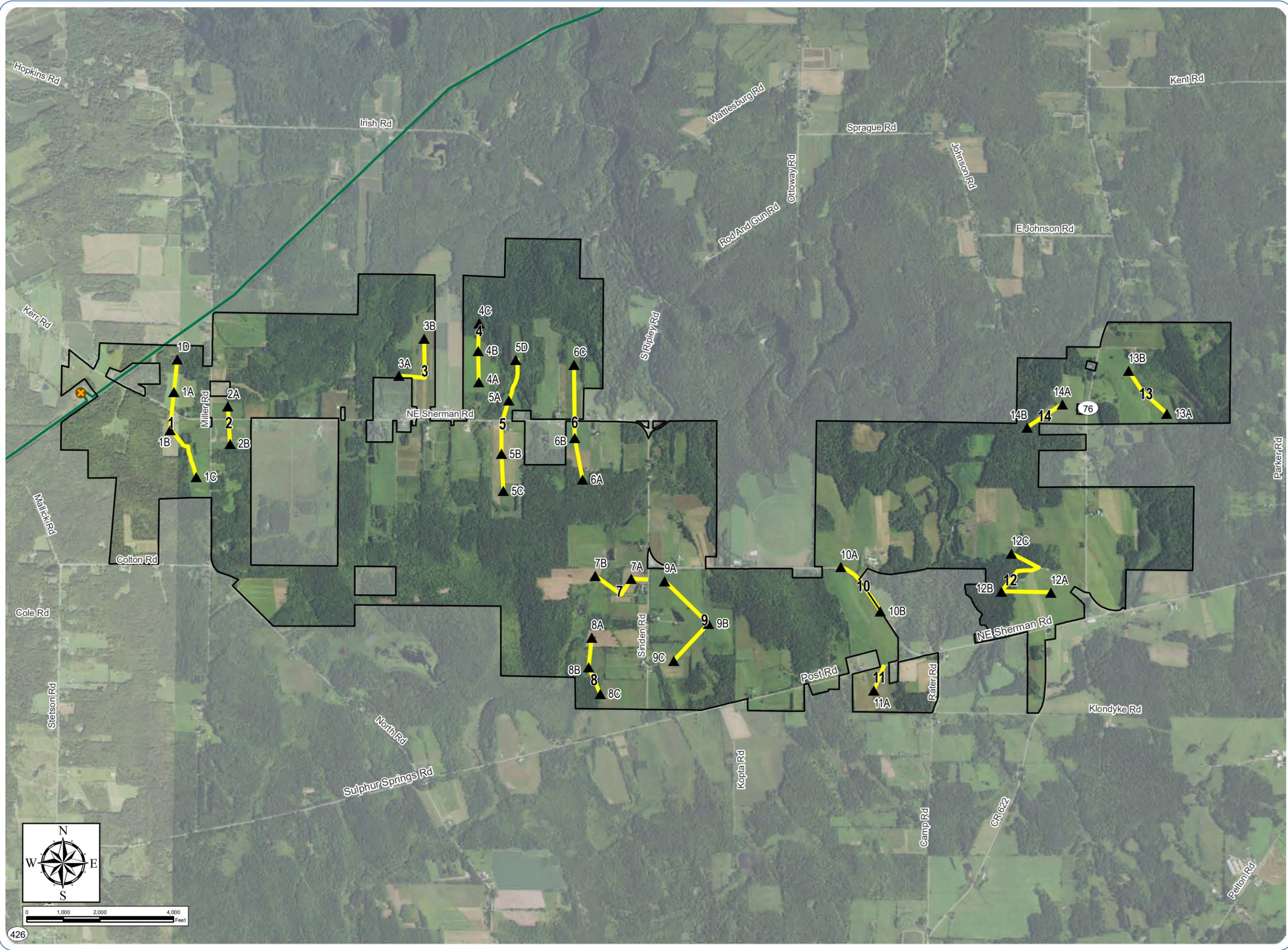


# South Ripley Solar Project

Town of Ripley, Chautauqua County, New York

Breeding Bird Survey Report

### Figure 3: Breeding Bird Survey Locations



- ▲ Point Count Location
- ⊗ Existing Substation
- Survey Transect
- Existing Transmission Line
- Facility Area

**Notes:** 1. Basemap: USDA NAIP "2017 New York 1 m" orthoimagery map service. 2. This map was generated in ArcMap on June 30, 2020. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.



## **APPENDIX A**

### Breeding Bird Survey Work Plan

# Breeding Bird Survey Work Plan

## South Ripley Solar Project

Town of Ripley

Chautauqua County, New York

Prepared for:



### ConnectGen LLC

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Prepared by:



**Environmental Design & Research,**

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Syracuse, NY 13202

**May 2020**

## MANAGEMENT SUMMARY

Primary Involved Agencies: New York State Department of Public Service (NYSDPS)  
New York State Department of Environmental Conservation (NYSDEC)  
(Article 10 Application)

NYSDPS Article 10 Case Number: 19-F-0560

Type of Survey: Breeding Bird Survey

Location Information: Town of Ripley, Chautauqua County, New York

Facility Description: Proposed Solar Photovoltaic Electric Generating Facility (up to 270 MW)

Facility Area: Approximately 4,500 acres

USGS 7.5-Minute Quadrangle Maps: South Ripley, NY and North East, PA

Report Authors: Ravyn Neville, Tiffany Clay, and Samouel Beguin

Date of Report: May 2020

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 Figure 3: Breeding Bird Survey Locations

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 Appendix B: Results of Agency Database Review and Consultation  
 Appendix C: Sample Breeding Bird Survey Data Sheet  
 Appendix D: Sample Habitat Data Sheet

## 1.0 INTRODUCTION

### 1.1 Purpose of the Investigation

On behalf of ConnectGen Chautauqua County LLC (ConnectGen or the Applicant), Environmental Design & Research, Landscape Architecture, Engineering, & Environmental Services, D.P.C. (EDR) has prepared this Breeding Bird Survey Work Plan (Work Plan) for the proposed South Ripley Solar Project (the Facility), located in the Town of Ripley in Chautauqua County, New York. This Work Plan supports an Application for a Certificate of Environmental Compatibility and Public Need pursuant to Article 10 of the New York State Public Service Law for construction of a solar electric generating facility. The results are intended to inform the Applicant in the development of the Facility, and also assist the New York State Department of Environmental Conservation (NYSDEC), the New York State Department of Public Service (NYSDPS), and other New York State agencies in their review of the proposed Facility in accordance with the requirements of the Article 10 and 6 NYCRR Part 182 regulations.

The purpose of the proposed breeding bird survey is to identify and document avian species that utilize habitats within the lands being evaluated to host the Facility (the Facility Area) during the breeding season. Based on consultation with the NYSDEC, suitable habitat exists on-site that may support wintering or breeding grassland birds; in addition, state-listed grassland bird species have been recorded within nearby Breeding Bird Atlas blocks (i.e., within 5 miles). Therefore, the breeding bird survey will focus primarily on open field areas that could potentially be used by grassland bird species (including state-listed species). However, placement of survey locations will also allow for detection of birds that utilize other habitat types (e.g., forestland), as well as birds that may fly over/through the Facility Area (including bald eagles [*Haliaeetus leucocephalus*], which have documented nest locations within 5 miles of the Facility Area). The breeding bird surveys will be conducted by qualified biologists and have been designed based on the 2015 NYSDEC *Survey Protocol for State-listed Breeding Grassland Bird Species* (NYSDEC Survey Protocol; included as Appendix A).

### 1.2 Facility Location and Description

The Applicant is proposing to construct an up to 270-megawatt (MW) solar powered electric generating facility with up to 20 MW of battery energy storage capacity within the Town of Ripley, Chautauqua County, New York (see Figure 1). The Facility is anticipated to produce enough clean, renewable electricity to power approximately 67,000 New York households. The proposed Facility will include installation of solar photovoltaic (PV) panels, a collection substation, a switching station, an operations and maintenance building, temporary laydown areas, collection lines, and associated access roads and fencing. Approximately 4,500 acres of rural land are currently being evaluated to host the Facility (the Facility Area; see Figure 2). The Facility Area represents the broader area being studied, within which specific parcels will be selected for the siting, design, construction, and operation of the Facility. The Facility will ultimately be

sited on approximately 2,000 acres of private land leased within the Facility Area. Much of the Facility will be constructed in areas where disturbance has already occurred (e.g., agricultural fields that are used for hay and/or row crop production) in order to minimize the need for vegetation removal within forested and wetland areas.

## 2.0 BACKGROUND INFORMATION

The Applicant has gathered information on the existing ecological conditions within the Facility Area to support the siting process. This has included multiple reconnaissance-level field investigations of existing on-site conditions and a desktop review of the Facility Area to inform the design of the breeding bird study and other ecological field surveys (e.g., wetland and stream delineations). A winter raptor survey was also conducted during the 2019-2020 season. Based on these assessments, the Facility Area is dominated by fallow agricultural land and agricultural land that is actively managed to produce row and field crops (primarily corn, soybeans, grapes, and hay). In addition, the Facility Area includes some successional old fields and shrubland, deciduous forest, forested wetlands, emergent wetlands, scrub-shrub wetlands, and disturbed/developed land (primarily rural single-family housing units and farm buildings).

In addition to data collected on existing land use and ecological communities, the Applicant has also initiated consultation with federal and state agencies regarding the potential presence of threatened and endangered species within the Facility Area. This includes database review via the U.S. Fish and Wildlife Service (USFWS) online Information for Planning and Consultation (IPaC) system, as well as correspondence with the New York Natural Heritage Program (NYNHP). According to the IPaC system, the northern long-eared bat (*Myotis septentrionalis*; NLEB) is the only federally-listed species that potentially occurs within the Facility Area (Appendix B). The NLEB is federally-listed as threatened. Correspondence with the NYNHP began with the submittal of a formal request for information regarding state and federally-listed endangered and threatened species within the Facility Area on August 21, 2019. A response letter received from the NYNHP on September 15, 2019 stated that two significant natural communities noted as high quality occurrences are present within the Facility Area. These include a confined river wetland/aquatic community and a hemlock-northern hardwood forest upland/terrestrial community. Additionally, one state-listed endangered plant species, tall ironweed (*Vernonia gigantea*), has been documented within 0.35 mile of the Facility Area (see Appendix B). The NYNHP letter did not identify known occurrences of any state-listed avian species within the Facility Area.

Following receipt of this NYNHP response letter, EDR initiated further consultation with NYSDEC Central Office staff and NYSDEC Region 9 staff to obtain occurrence records for any additional state-listed species that may have been documented by the NYSDEC or the NYNHP in the vicinity of the Facility Area. Specifically, the Applicant and EDR spoke with NYSDEC Central Office staff on September 18, 2019 about the NYNHP response letter and the potential for additional state-listed species data. On November 6, 2019, the NYSDEC Central Office provided additional

occurrence data for the Facility Area and its vicinity under a non-disclosure agreement. In this response, NYSDEC stated that “[t]here are no records of State-listed threatened or endangered grassland bird species within the project area, however some suitable habitat exists on site that may support wintering or breeding grassland birds.” However, the NYSDEC did note that three Breeding Bird Atlas blocks located within 5 miles of the Facility Area have records of state-listed grassland bird species. Specifically, northern harrier (*Circus hudsonius*) has been recorded within blocks 1168A and 1168B (confirmed breeding), and sedge wren (*Cistothorus platensis*) has been recorded within block 1167C (probable breeding). The NYSDEC also identified five known bald eagle nests within 5 miles of the Facility Area.

In addition, EDR corresponded with NYSDEC Region 9 staff in mid-October 2019 regarding additional state-listed species data that may not currently be integrated with the NYNHP database. On October 21, 2019, NYSDEC Region 9 staff provided a response indicating that NYSDEC Region 9 was not aware of any additional records. Finally, a conference call was held with NYSDEC staff on April 3, 2020 during which the NYSDEC recommended submitting another request to the NYNHP for any updated state-listed species data. NYNHP and NYSDEC responses received to date are provided in Appendix B. The Applicant will continue to consult with the NYNHP and the NYSDEC to ensure that the most current state-listed species information is being considered during the development process.

### **3.0 BREEDING BIRD SURVEY WORK PLAN**

As stated previously, breeding bird surveys for the Facility will be conducted based on the NYSDEC Survey Protocol. In order to detect potential grassland bird species that may utilize open field habitats within the Facility Area, survey locations will target suitable grassland patches larger than 12 acres, as well as other large, open field types (e.g., fallow fields) that are present on-site and that may represent suitable habitat for grassland birds. Point count surveys will be used to detect bird species, and biologists will also survey open fields while walking along survey transects between/among point count locations (i.e., meander surveys). A detailed description of the proposed survey is provided below and consists of: (1) the survey period and frequency; (2) proposed survey locations; (3) surveyor qualifications; and (4) survey methodology.

#### **3.1 Survey Period and Frequency**

The proposed survey period corresponds with the typical breeding periods for the vast majority of avian species that may be present within the Facility Area during the breeding season. It is currently anticipated that surveys will be conducted during the spring and early summer, defined here as mid-May to mid-July 2020. Surveys are proposed to begin the week of May 18, 2020 and will be performed once per week until the week of July 20, 2020. However, EDR recognizes that uncertainties resulting from the coronavirus disease 2019 (COVID-19) health crisis may affect the

Applicant's and/or EDR's ability to meet this schedule. The Applicant and EDR will contact NYSDEC and NYSDPS staff should any survey delays or interruptions due to the COVID-19 health crisis occur.

Surveys will be conducted between a half hour before sunrise and until no later than 10:30 a.m., and in weather conditions that are conducive to hearing birdsong and contact calls and to visually identifying birds as they move about in vegetation and in flight. Surveys will not be conducted on days when precipitation intensity is greater than that of a drizzle, fog reduces visibility below 100 meters, and/or when the wind is above a 3 on the Beaufort wind scale (i.e., greater than 12 mph), as detection of birds would be reduced in these conditions.

### **3.2 Proposed Survey Locations**

The primary method for surveying breeding birds will consist of a regimented series of five-minute point count surveys and walking observations conducted along transects within the Facility Area. A total of 13 survey transects have been designated within the Facility Area on currently accessible parcels (see Figure 3). The transects range from 260 to 1,894 meters long, with an average length of 701 meters. Based on the NYSDEC Survey Protocol (Appendix A), survey locations have been placed in open fields (e.g., hayfields, pastureland, fallow fields) greater than 12 acres in size throughout the Facility Area to provide optimal coverage of potential grassland bird habitat. Survey locations will also allow for detection of avian species that may utilize nearby forest and wetland communities (as well as birds that may pass over the Facility Area).

A total of 35 point count survey locations along the transects have been selected that are intended to provide coverage of areas where Facility PV panel arrays will ultimately be sited, as well areas where no PV panel arrays will be installed. Point count locations have been spaced apart by at least 250 meters (820 feet), and are also located at least 100 meters (328 feet) from major roads and other obstructions, as recommended by the NYSDEC (see Appendix A). These spacing considerations will reduce the potential for overlapping detections and improve spatial coverage of the Facility Area.

During all point count surveys and travel between/among survey locations, biologists will record avian species identified, including any special status species observed (i.e., federally-listed, state-listed, special concern, and species of greatest conservation need). The proposed locations of survey transects and point count locations within the Facility Area are shown on Figure 3.

### 3.3 Surveyor Qualifications

Breeding bird surveys will be conducted by EDR field biologists Tiffany Clay and Holly Kistner, as well as additional experienced consulting biologists who will assist with surveys to ensure that all transects are adequately sampled during the survey season. EDR Senior Environmental Analyst Samouel Beguin will provide technical direction for the survey effort and ensure that quality assurance and quality control procedures are followed.

Ms. Clay is an Environmental Analyst with more than five years of experience in the natural resources field. She received a Bachelor of Science in Environmental Science and Biology from The College at Brockport State University of New York (SUNY Brockport) and a master's degree in Environmental Science and Ecology from SUNY Brockport. Prior to joining EDR, Ms. Clay spent two field seasons as a crew leader conducting avian community surveys (acoustic and visual) for the Great Lakes Coastal Wetland Monitoring Project. As a long-term volunteer, Ms. Clay has also conducted point count surveys for breeding birds at Montezuma National Wildlife Refuge. Ms. Clay is a member of the Rochester Birding Association and is an avid bird watcher in her free time.

Ms. Kistner is an Environmental Analyst with more than five years of experience in the natural resources field. She received a Bachelor of Science in Environmental Geosciences from the State University of New York at Buffalo (University at Buffalo) and a master's degree in Environmental Science and Policy from Bard College. Prior to joining EDR, Ms. Kistner worked as a naturalist and environmental educator in Costa Rica and Colorado. In Costa Rica, Ms. Kistner guided birding hikes and taught classes about local bird species. In Colorado, Ms. Kistner handled and cared for rehabilitated (but non-releasable) birds of prey, and identified birds on guided hikes. Ms. Kistner conducts avian and other ecological surveys for EDR and is a recreational birder.

Mr. Beguin is a Senior Environmental Analyst with more than six years of experience in environmental consulting, wildlife biology, and scientific research. He received a Master of Science degree in Environmental and Forest Biology from the State University of New York College of Environmental Science and Forestry and a Bachelor of Arts degree in Biology and Environmental Studies from Middlebury College. Mr. Beguin's experience includes threatened and endangered wildlife species surveys, habitat assessments, environmental permitting, mitigation planning, GIS mapping and data analysis, and bioacoustic monitoring of avian communities. At EDR, Mr. Beguin has been involved in designing and conducting breeding bird surveys and/or wintering grassland raptor surveys for eight Article 10 renewable energy projects and assisting with desktop and field-based habitat assessments for more than a dozen utility-scale renewable energy projects.

### 3.4 Survey Methodology

The breeding bird surveys will be conducted by qualified biologists and will be substantively compliant with the recommendations for breeding grassland bird surveys described in the NYSDEC Survey Protocol (Appendix A). Multiple open field transects and point count locations will be surveyed to allow for detection of state-listed (and other special status) grassland bird species, if present. Biologists will visit the Facility Area one or two days per week to conduct the surveys, with seven days between each set of surveys. Surveys for each individual transect will be conducted on foot, and biologists will either walk or drive to access the next transect depending on proximity. Transects and point count locations will be surveyed in a rotating (different) order each week to prevent sampling bias, as detectability of some species can vary at different times of day.

At each point count location, biologists will stand stationary for a period of one minute after arriving at the designated location before beginning a five-minute survey. The one-minute waiting period will promote habituation by any birds in the area to the presence of the biologist. Point count surveys will be conducted by scanning the surrounding habitat with binoculars with 8x or 10x magnification for the duration of the five-minute survey interval. The biologists will also listen for bird songs and calls, as some birds may not be visually identifiable because of their locations relative to the observer.

Survey data will be recorded in a standardized and organized fashion utilizing a project-specific data sheet (see Appendix C for an example). Data recorded for each point count survey will include the date, observer name, survey location (transect number and point count location ID), start and end time, summary of weather conditions (temperature, wind speed, precipitation/sky condition), the number and identification of each species observed, and behavioral observations (i.e., whether the species exhibits breeding behavior). In addition, the approximate distance from the observer of each identified bird will be recorded.

If breeding behaviors (including courtship displays, food exchanges, nest building, copulation, carrying food, or presence of fledglings, among others) of any federally- or state-listed species (e.g., bald eagle, northern harrier, sedge wren) are observed, the Applicant proposes to notify NYSDEC personnel within 24 hours of the observation. Location coordinates of any listed species will be documented, and locations will be identified on an aerial-based map of the survey area. All observations of listed species (regardless of whether breeding behavior is observed) will be recorded and included with the final report (see below for additional details). Detailed behavioral information will be recorded for all state-listed species observations, along with flight paths, potential roost/nest locations, and areas of concentrated use (as applicable).

Field observations regarding habitat characteristics and anthropogenic disturbances (including land management activities) will be recorded on a separate habitat data form. A sample habitat data form is attached as Appendix D.

Each survey location will include a description of habitat including dominant plant species, canopy cover, shrub cover, herb cover, height of vegetation, and any human activity (e.g., farmer cultivating a field) or other source of human interference/influence on bird behavior (e.g., artificial feeding station, spilled grain, recent mowing).

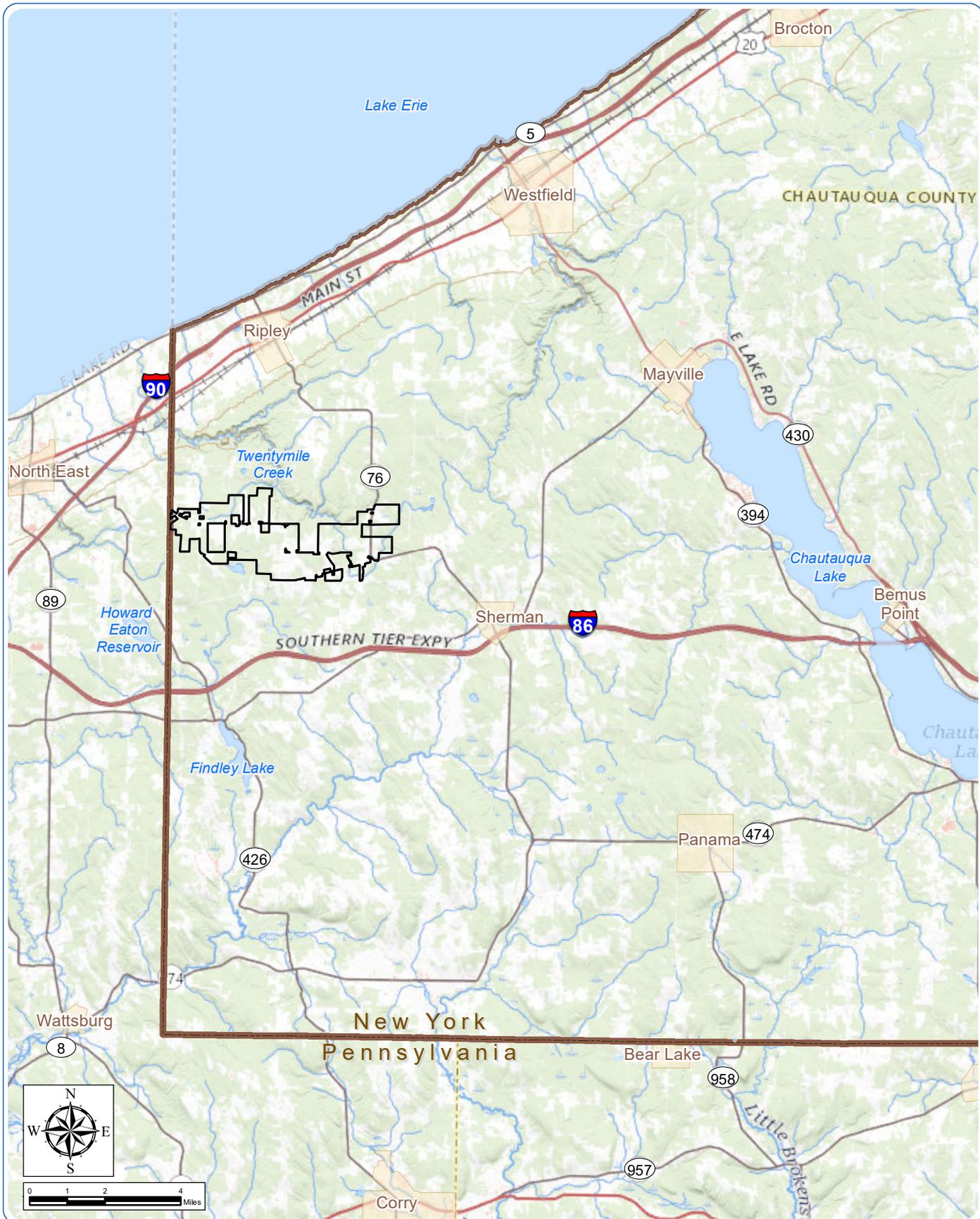
### **3.5 Reporting**

A final report will be prepared and submitted to the NYSDEC after the surveys have been completed for the season. The report will provide summaries of all observations of breeding avian species and any other non-breeding species observed during the surveys. Data summaries will include:

- The total number of species observed;
- The total number of individuals of each species observed;
- An indication of the dates and survey locations at which each species was observed;
- Whether birds were first detected visually or via vocalization;
- An indication of which survey points and transects had the highest and lowest number of species; and
- Species diversity, frequency, and abundance, including a relationship between these observations and on-site habitat conditions.

The report will include data sheets, maps (with recent aerial orthoimagery basemapping), and GIS shapefiles showing the locations of survey transects and point count locations. Descriptions of disruptions and/or distractions that may have interfered with adequate detection of birds during surveys (if any) will also be provided. The report will also include the date, time first observed, number of individuals, time last observed, detailed information on behavior(s) and flight path, coordinates, and georeferenced GIS shapefiles of all federally- and/or state-listed species observations (including perch, roost, and nest locations, as well as polygons for areas of repeated/concentrated use, if applicable).

## FIGURES



### South Ripley Solar Project

Town of Ripley, Chautauqua County, New York  
Breeding Bird Survey Work Plan

**Figure 1: Regional Facility Location**

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service.  
2. This map was generated in ArcMap on April 23, 2020. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

-  Facility Area
-  State Boundary

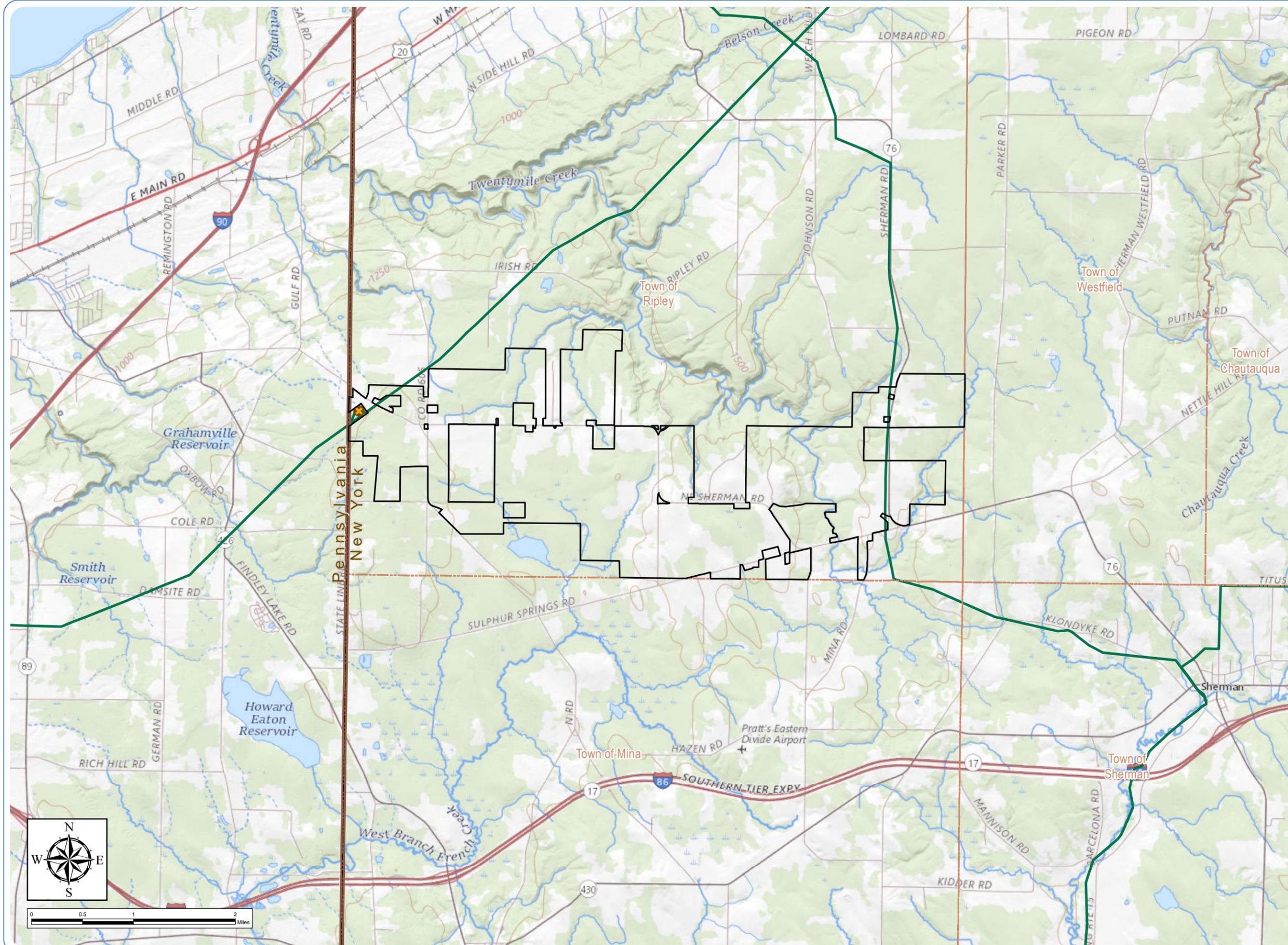


# South Ripley Solar Project

Town of Ripley, Chautauqua County, New York

Breeding Bird Survey Work Plan

Figure 2: Facility Area



-  Existing Substation
-  Existing Transmission Line
-  Facility Area
-  Town Boundary
-  State Boundary

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on April 24, 2020. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

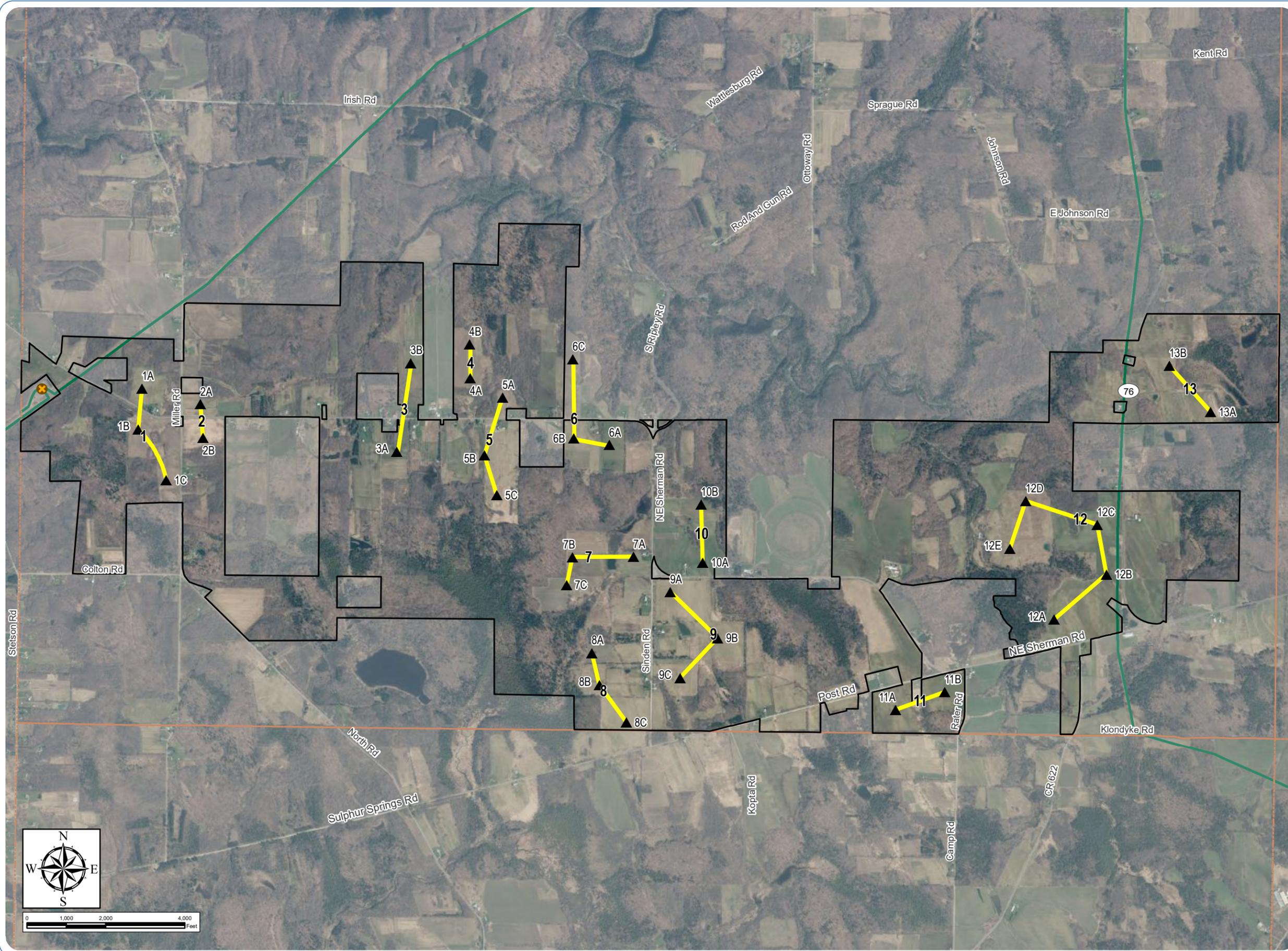


## South Ripley Solar Project

Town of Ripley, Chautauqua County, New York

Breeding Bird Survey Work Plan

**Figure 3: Breeding Bird Survey Locations**



- ▲ Point Count Location
- Survey Transect
- ⊗ Existing Substation
- Existing Transmission Line
- ▭ Facility Area
- ▭ Town Boundary

**Notes:** 1. Basemap: NYS DOP "2016" orthoimagery map service. 2. This map was generated in ArcMap on April 24, 2020. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.



## **APPENDIX A**

NYSDEC Survey Protocol

**New York State Department of Environmental Conservation**  
**Survey Protocol for State-listed Breeding Grassland Bird Species**  
**DRAFT- 2015**

These protocols describe requirements for determining presence and site use by state-listed threatened/endangered and rare grassland bird species during the breeding season as part of the NYSDEC permit review process for a project application. Rare, threatened, and endangered (RTE) and special concern (SC) grassland nesting birds in New York State include: Northern Harrier (T), Upland Sandpiper (T), Short-Eared Owl (E), Henslow's Sparrow (T), Sedge Wren (T), Grasshopper Sparrow (SC), Vesper Sparrow (SC), and Horned Lark (SC). Habitat characteristics of project sites will also be recorded. Information obtained from these surveys will be considered in determining the possible need for additional comprehensive studies, regulatory review and, if necessary, avoidance, minimization, and/or mitigation strategies pursuant to 6 NYCRR Part 182.9.

### **Survey Periods**

Surveys should be conducted during the breeding season from 20 May through 20 July. The survey protocols are geared toward the **optimal** window for surveys for all RTE grassland species that might be expected, while the regulatory guidelines are intended to span the earliest through latest dates of possible breeding across all RTE grassland species. At a minimum, there will be one survey period in late May, two in June, and one in July. At least one survey period should be completed before any haying or mowing is done at the site. Additional surveys may be required in late April or early May if breeding Short-Eared Owls and/or Northern Harrier are to be targeted. During each survey period, the study area will be surveyed once in the morning. In addition, if the project review indicated the potential for Henslow's Sparrow to be on the site, an evening survey should also be done during each survey period.

### **Establishing Survey Points**

Point count surveys will be the accepted methodology, and all points will be placed in suitable grassland habitat. Suitable grassland sites are areas ("patches") larger than 12 acres (approximately 5 hectares) that are dominated by grasses and forbs. There may be multiple grassland patches at each site separated by obstructions such as forests, hedgerows, large roads, and developed areas. Sampling areas within patches will be defined by outlining the section of each grassland patch that is 100 meters from obstructions as mentioned above.

Each point count will be a circular plot survey centered on the observation point. Each point will have a 100-meter radius and the minimum distance between survey point centers in all directions will be 250 meters. The size of the grassland sampling area determines the number of points that are established. Survey points are placed to obtain the maximum number of points per sampling area. The initial placement of the circles/points does not need to be random, although, they need to be systematically located

to cover the entire sampling area. As many points at each site as possible will be surveyed, but in larger grassland patches the actual points to survey will be randomly selected from all possible points in the sampling area. At least 1 point per 25 acres (approximately 10 hectares) should be surveyed. The surveys should also include qualitative meander surveys. Meander surveys should be done between points and will help to ensure that the most suitable habitats for RTE grassland birds have been adequately covered.

### **Timing of Surveys**

Morning surveys will be conducted starting at a half hour before sunrise when feasible until no later than 10:30am. Evening surveys will be conducted one hour before sunset until two hours after sunset. At least seven days must pass between surveys. The order in which points are surveyed will be reversed during each count, so that the same point is not always surveyed during the same time period. Surveys will not be conducted during inclement weather, including precipitation, fog, or strong winds (i.e. greater than 10-12mph).

### **Conducting Surveys**

Standard point counts are to be conducted for five minutes after an initial 1-2 minutes of silence after arriving at the point to allow birds to recover from any disturbance. All birds observed within approximately 100 meters of points will be recorded, and birds observed beyond 100 meters from the point and during meander surveys (while walking between points) will be recorded in a separate column on the data sheet.

### **Recording Data** (sample data sheet attached)

Data recorded for each survey point will include: date; observer name(s); site name; patch name; point number; start and end time of observation period; survey period; whether an evening survey or not, and weather information (including temperature, wind speed and direction, precipitation and cloud cover). During the five minute point count, species identification, number of individuals per species (<5, 6-10, or > 10, but if possible actual number), behavior (nesting, flying, perching, singing, etc.) and the “highest” behavior code will be recorded for each species. Also recorded will be species heard or seen while doing meander surveys or walking between points and flyover species.

Site description information will be collected on a separate data sheet after the point counts are complete during each survey period and will include information such as: patch size, habitat type, distance from a trail or road, distance from hedgerow or wood line and vegetation measurements within 25 meters of the survey point.

Vegetation measurements are as follows: Percent cover of each vegetation type (i.e. grass, forb, woody, etc.); dominant grass and forb; percent bare; average vegetation height; litter depth; and nearest shrub above vegetation height. A robel pole should be used for average height and density measured from four cardinal directions and then averaged. The

presence of invasive species, and any recent management practices should also be recorded.

### **Reporting Requirements**

A detailed, site-specific work plan, including survey point locations should be developed and submitted to NYSDEC for review and written approval prior to the start of field work. A final report should be submitted to NYSDEC at the conclusion of each year of surveys. Final reports should include: data sheets; maps (ideally recent aerial photographs); summaries of all observations of grassland birds (and any other state-listed species observed); and a conclusion regarding whether more comprehensive studies may be necessary to assess the potential for the project to negatively affect endangered or threatened grassland nesting species.

## **APPENDIX B**

Results of Agency Database Review and Consultation



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
New York Ecological Services Field Office  
3817 Luker Road  
Cortland, NY 13045-9385

Phone: (607) 753-9334 Fax: (607) 753-9699

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

In Reply Refer To:

October 28, 2019

Consultation Code: 05E1NY00-2020-SLI-0302

Event Code: 05E1NY00-2020-E-00842

Project Name: South Ripley Solar

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: <http://www.fws.gov/northeast/nyfo/es/section7.htm>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (<http://www.fws.gov/windenergy/>

[eagle\\_guidance.html](#)). Additionally, wind energy projects should follow the Services wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**New York Ecological Services Field Office**

3817 Luker Road

Cortland, NY 13045-9385

(607) 753-9334

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## Project Summary

Consultation Code: 05E1NY00-2020-SLI-0302

Event Code: 05E1NY00-2020-E-00842

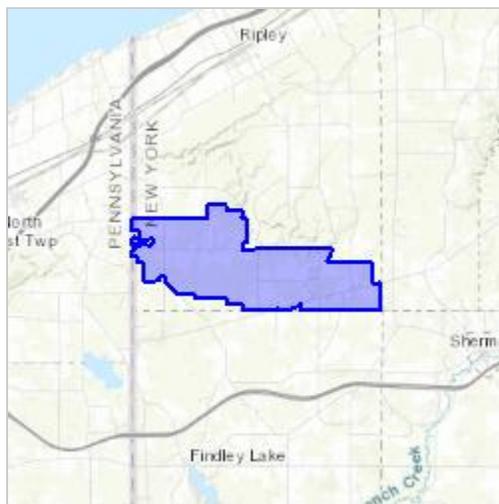
Project Name: South Ripley Solar

Project Type: POWER GENERATION

Project Description: South Ripley Solar Project is proposing to construct an up to 270 MW solar powered electric generating facility within the Town of Ripley, Chautauqua County, New York.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.19202586523372N79.71394837277441W>



Counties: Chautauqua, NY

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## Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION****Division of Fish and Wildlife, New York Natural Heritage Program**

625 Broadway, Fifth Floor, Albany, NY 12233-4757

P: (518) 402-8935 | F: (518) 402-8925

www.dec.ny.gov

September 15, 2019

Bill Whipps  
EDR  
217 Montgomery Street, Suite 1000  
Syracuse, NY 13202

Re: South Ripley Solar Project (EDR Project No. 19020)  
County: Chautauqua    Town/City: Ripley

Dear Mr. Whipps:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur in the vicinity of the project site.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Our database is continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 9 Office, Division of Environmental Permits at [dep.r9@dec.ny.gov](mailto:dep.r9@dec.ny.gov), (716) 851-7165.

Sincerely,



Heidi Krahling  
Environmental Review Specialist  
New York Natural Heritage Program

1041



Department of  
Environmental  
Conservation



**The following rare plants and significant natural communities have been documented at the project site, or in its vicinity.**

We recommend that potential impacts of the proposed project on these species or communities be addressed as part of any environmental assessment or review conducted as part of the planning, permitting and approval process, such as reviews conducted under SEQ. Field surveys of the project site may be necessary to determine the status of a species at the site, particularly for sites that are currently undeveloped and may still contain suitable habitat. Final requirements of the project to avoid, minimize, or mitigate potential impacts are determined by the lead permitting agency or the government body approving the project.

**The following natural communities are considered significant from a statewide perspective by the NY Natural Heritage Program. Each community is either an example of a community type that is rare in the state, or a high-quality example of a more common community type. By meeting specific, documented criteria, the NY Natural Heritage Program considers these community occurrences to have high ecological and conservation value.**

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS
<b>Wetland/Aquatic Communities</b>			
<b>Confined River</b>			High Quality Occurrence of Uncommon Community Type
<p><b>Documented in the eastern third of the project site at Twentymile Creek.</b> This is a moderately large occurrence in very good condition and with very good species diversity. The stream is in a moderate-sized landscape of working forests.</p>			10196

<b>Upland/Terrestrial Communities</b>			
<b>Hemlock-Northern Hardwood Forest</b>			High Quality Occurrence
<p><b>Documented in multiple patches within the project site.</b> This is a moderate-sized occurrence in a mature state with small patches of putative old growth and excellent plant species diversity. The community is in an excellent moderate-sized and intact forested landscape.</p>			6512

**The following plant is listed as Endangered by New York State, and so is a vulnerable natural resource of conservation concern.**

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS
<b>Tall Ironweed</b>	<i>Vernonia gigantea</i>	Endangered	Critically Imperiled in NYS
<p>Documented within 0.35 mile south of the project site. 1991-08-05: Moist pastureland and successional old field. The area was probably a rich hemlock-hardwood forest before human and beaver activities.</p>			1882

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the rare animals and plants in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at [www.guides.nynhp.org](http://www.guides.nynhp.org), from NatureServe Explorer at [www.natureserve.org/explorer](http://www.natureserve.org/explorer), and from USDA's Plants Database at <http://plants.usda.gov/index.html> (for plants).

Information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at [www.guides.nynhp.org](http://www.guides.nynhp.org). For descriptions of all community types, go to [www.dec.ny.gov/animals/97703.html](http://www.dec.ny.gov/animals/97703.html) for Ecological Communities of New York State.

South Ripley Solar  
Natural Heritage Program Tracked Species Details  
*NYSDEC-Confidential*  
November 2019

[REDACTED]

[REDACTED]

[REDACTED]

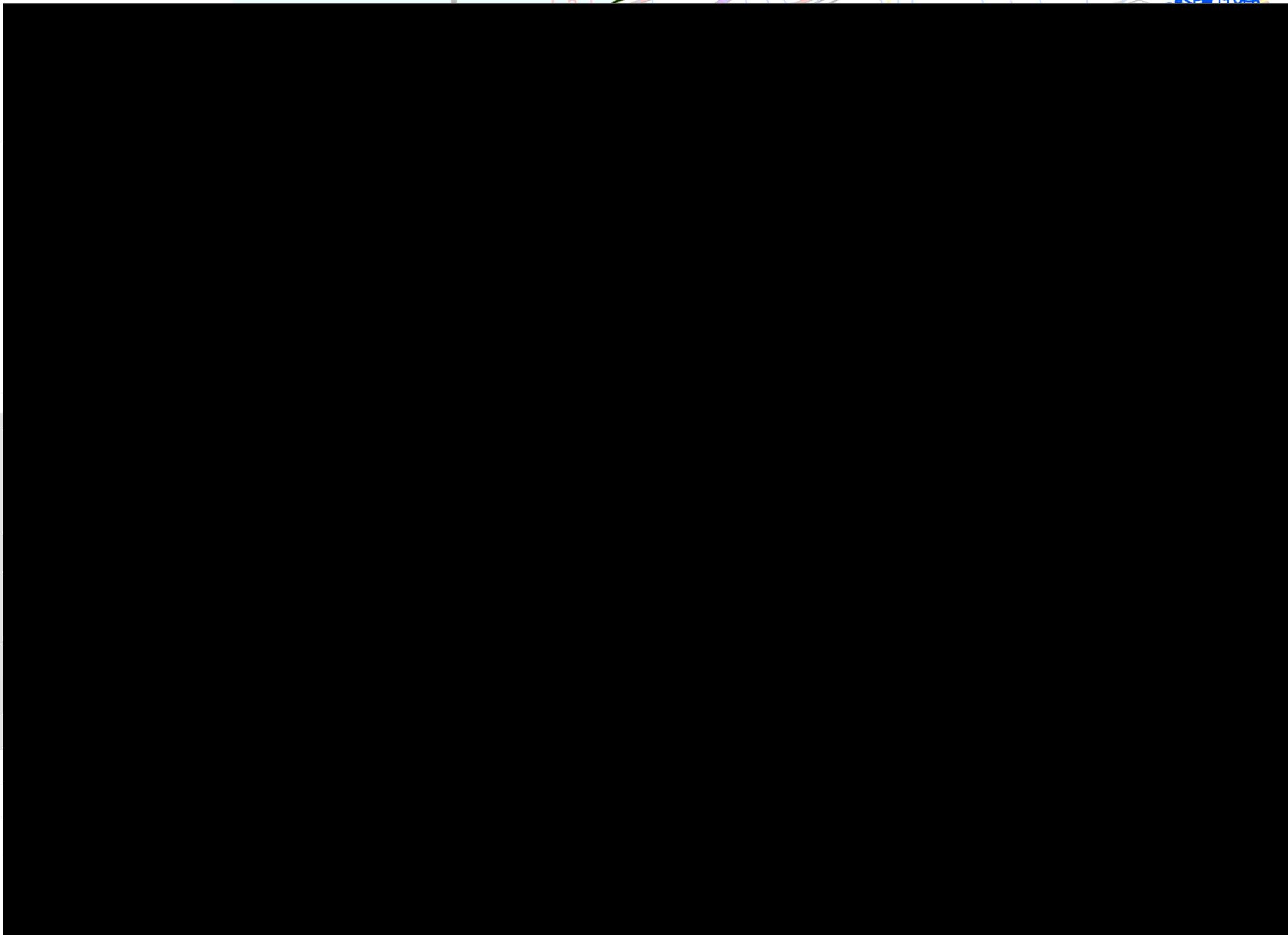
[REDACTED]

[REDACTED]

[REDACTED]

# South Ripley Solar--NHP Tracked Species

REDACTED - Matter No. 21-00750





## **APPENDIX C**

Sample Breeding Bird Survey Data Sheet



## **APPENDIX D**

Sample Habitat Data Sheet

Project: \_\_\_\_\_

Date: \_\_\_\_\_

Location ID	Active Agriculture (Y/N)	Dominant Cover	Field Size (Acres)	Distance to Edge (m)	Canopy Cover (%)	Shrub Cover (%)	Herb Cover (%)	Mean Veg Height (m)	Dominant Species	Notes

Notes: Data above represent the habitat assessment of a 50 m plot radius around each survey location

## **APPENDIX B**

### Summary of Habitat and Vegetation Data

**Appendix B. Summary of Habitat and Vegetation Data**

Survey Location	Survey Date											
	6/4/2020	6/5/2020	6/12/2020	6/18/2020	6/22/2020	7/1/2020	7/8/2020	7/14/2020	7/16/2020	7/21/2020	7/24/2020	7/31/2020
<b>1A</b>												
Dominant Cover	hay		hay	hay		hay		hay				hay
Mean Vegetation Height (m)	0.6		1.0	2.5		1.0		0.75				0.15
<b>1B</b>												
Dominant Cover	wheat		wheat	wheat		wheat		wheat				wheat
Mean Vegetation Height (m)	0.6		1.0	2.5		1.0		1.0				1.0
<b>1C</b>												
Dominant Cover	wheat		wheat	wheat		wheat		wheat				wheat
Mean Vegetation Height (m)	0.6		1.0	1.0		1.0		1.0				1.0
<b>1D</b>												
Dominant Cover			deciduous trees	deciduous trees		deciduous trees		deciduous trees				deciduous trees
Mean Vegetation Height (m)			20+	20+		20+		20+				20+
<b>2A</b>												
Dominant Cover	weeds		grasses/weeds	grasses/weeds	grasses/weeds	grasses/weeds		grasses/weeds		grasses/weeds		grasses/weeds
Mean Vegetation Height (m)	0.15		0.25	0.25	0.25	0.3		0.3		0.3		0.6
<b>2B</b>												
Dominant Cover	wheat		wheat	wheat		wheat		wheat		wheat		wheat
Mean Vegetation Height (m)	0.6		1.0	0.75		0.75		0.75		0.75		0.75
<b>3A</b>												
Dominant Cover	grasses/trees (field/forest edge)		grasses/trees (field/forest edge)	grasses/trees (field/forest edge)	grasses/trees (field/forest edge)		grasses/trees (field/forest edge)		grasses/trees (field/forest edge)			grasses/trees (field/forest edge)
Mean Vegetation Height (m)	1.0		0.6	2.0	2.0		2.0		2.0			2.0
<b>3B</b>												
Dominant Cover	hay		hay	hay	hay	hay	hay		hay			hay
Mean Vegetation Height (m)	1.0		0.6	0.8	1.0	1.0	1.0		1.0			1.0

Appendix B. Summary of Habitat and Vegetation Data

Survey Location	Survey Date											
	6/4/2020	6/5/2020	6/12/2020	6/18/2020	6/22/2020	7/1/2020	7/8/2020	7/14/2020	7/16/2020	7/21/2020	7/24/2020	7/31/2020
<b>4A</b>												
Dominant Cover	grasses, forbs, and shrubs		grasses, forbs, and shrubs		grasses, forbs, and shrubs		grasses, forbs, and shrubs		grasses, forbs, and shrubs			
Mean Vegetation Height (m)	1.0		1.0	0.8	1.5	1.5		1.5		1.5		1.5
<b>4B</b>												
Dominant Cover	grasses, forbs, and shrubs		grasses, forbs, and shrubs		grasses, forbs, and shrubs		grasses, forbs, and shrubs		grasses, forbs, and shrubs			
Mean Vegetation Height (m)	0.6		1.0	0.8	1.5	1.5		1.5		1.5		1.5
<b>4C</b>												
Dominant Cover			deciduous trees	deciduous trees	deciduous trees	deciduous trees		deciduous trees				deciduous trees
Mean Vegetation Height (m)			20+	20+	20+	20+		20+				20+
<b>5A</b>												
Dominant Cover	shrubs and grasses		shrubs and grasses	shrubs and grasses	shrubs and grasses	shrubs and grasses	shrubs and grasses			shrubs and grasses		
Mean Vegetation Height (m)	1.0		1.0	0.8	1.5	1.5	1.5			1.5		
<b>5B</b>												
Dominant Cover	hay		hay	hay		hay	hay			hay		
Mean Vegetation Height (m)	0.6		1.0	1.0		0.2	0.2			0.2		
<b>5C</b>												
Dominant Cover			grasses/weeds	grasses/weeds			grasses/weeds			grasses/weeds		
Mean Vegetation Height (m)			1.0	0.8			1.0			1.0		
<b>5D</b>												
Dominant Cover				shrubs and grasses	shrubs and grasses	shrubs and grasses	shrubs and grasses			shrubs and grasses		
Mean Vegetation Height (m)				0.8	1.5	1.5	1.5			1.5		
<b>6A</b>												
Dominant Cover	shrubs and grasses				deciduous trees		deciduous trees			deciduous trees		
Mean Vegetation Height (m)	1.0				20+		20+			20+		
<b>6B</b>												
Dominant Cover	hay		hay		hay		hay			hay		
Mean Vegetation Height (m)	0.6		1.0		1.0		0.2			0.2		

Appendix B. Summary of Habitat and Vegetation Data

Survey Location	Survey Date											
	6/4/2020	6/5/2020	6/12/2020	6/18/2020	6/22/2020	7/1/2020	7/8/2020	7/14/2020	7/16/2020	7/21/2020	7/24/2020	7/31/2020
<b>6C</b>												
Dominant Cover	grasses, forbs, and shrubs				grasses, forbs, and shrubs		grasses, forbs, and shrubs			grasses, forbs, and shrubs		
Mean Vegetation Height (m)	0.7				1.5		1.5			1.5		
<b>7A</b>												
Dominant Cover		pasture	pasture		hay		hay		hay	hay		hay
Mean Vegetation Height (m)		0.15	0.15		0.15		0.2		0.2	0.2		0.2
<b>7B</b>												
Dominant Cover			scrub/shrub		hay		hay		hay	hay		hay
Mean Vegetation Height (m)			2.0		0.15		0.2		0.2	0.2		0.2
<b>8A</b>												
Dominant Cover		hay	hay		hay		hay				hay	
Mean Vegetation Height (m)		1.0	1.0		0.1		0.2				0.2	
<b>8B</b>												
Dominant Cover		bare (recently tilled)	corn		corn		corn				corn	
Mean Vegetation Height (m)		N/A	<0.1		0.1		0.3				0.3	
<b>8C</b>												
Dominant Cover		grasses/trees (field/forest edge)	grasses/trees (field/forest edge)				grasses/trees (field/forest edge)				grasses/trees (field/forest edge)	
Mean Vegetation Height (m)		0.5	0.5				0.3				0.75	
<b>9A</b>												
Dominant Cover		hay	hay	hay	hay		hay				hay	
Mean Vegetation Height (m)		1.0	0.8	0.07	0.1		0.2				0.3	
<b>9B</b>												
Dominant Cover		hay	hay	hay	hay		hay				hay	
Mean Vegetation Height (m)		1.0	1.0	0.07	0.1		0.2				0.3	
<b>9C</b>												
Dominant Cover		hay	hay	hay	hay		hay				hay	
Mean Vegetation Height (m)		0.5	1.0	1.0	0.1		0.2				0.2	

**Appendix B. Summary of Habitat and Vegetation Data**

Survey Location	Survey Date											
	6/4/2020	6/5/2020	6/12/2020	6/18/2020	6/22/2020	7/1/2020	7/8/2020	7/14/2020	7/16/2020	7/21/2020	7/24/2020	7/31/2020
<b>10A</b>												
Dominant Cover	grasses (pasture)		grasses (pasture)		grasses (pasture)		grasses (pasture)					
Mean Vegetation Height (m)	0.6		0.6	0.6	0.6	0.3	0.3		0.3		0.3	
<b>10B</b>												
Dominant Cover	grasses (pasture)		grasses (pasture)		grasses (pasture)		grasses (pasture)					
Mean Vegetation Height (m)	0.7		0.6	0.7	0.7	1.0	1.0		1.0		1.0	
<b>11A</b>												
Dominant Cover	hay		hay	hay	hay	hay	hay		hay		hay	
Mean Vegetation Height (m)	0.7		0.6	1.0	1.0	1.0	1.0		1.0		1.0	
<b>12A</b>												
Dominant Cover		hay	hay	hay	hay	hay	hay		hay		hay	
Mean Vegetation Height (m)		0.6	0.1	0.02	0.3	0.1	0.2		0.2		0.2	
<b>12B</b>												
Dominant Cover		grasses	deciduous trees		deciduous trees		deciduous trees					
Mean Vegetation Height (m)		0.6	20	20	20	20	20		20		20	
<b>12C</b>												
Dominant Cover		grasses	grasses/trees (field/forest edge)		grasses/trees (field/forest edge)		grasses/trees (field/forest edge)					
Mean Vegetation Height (m)		0.6	2.5	10	10	10	10		10		10	
<b>13A</b>												
Dominant Cover		hay		hay	hay	hay		hay				
Mean Vegetation Height (m)		0.6		1.5	0.75	0.1		0.1				
<b>13B</b>												
Dominant Cover		hay	hay	hay		hay		hay				
Mean Vegetation Height (m)		0.8	0.8	1.5		0.1		0.1				

Appendix B. Summary of Habitat and Vegetation Data

Survey Location	Survey Date											
	6/4/2020	6/5/2020	6/12/2020	6/18/2020	6/22/2020	7/1/2020	7/8/2020	7/14/2020	7/16/2020	7/21/2020	7/24/2020	7/31/2020
<b>14A</b>												
<i>Dominant Cover</i>				hay		hay		hay				
<i>Mean Vegetation Height (m)</i>				1.5		0.1		0.1				
<b>14B</b>												
<i>Dominant Cover</i>				deciduous trees		deciduous trees		deciduous trees				
<i>Mean Vegetation Height (m)</i>				20		20		20				

## **APPENDIX C**

### Breeding Bird Survey Observations

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	1	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	1	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	1	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	I	1	
6/4/2020	HK, SPF	62	0	2	5:42	1A	COYE	A	S	2	
6/4/2020	HK, SPF	62	0	2	5:42	1A	RWBL	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:42	1A	RWBL	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:42	1A	RWBL	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:42	1A	EAME	A	S	2	
6/4/2020	HK, SPF	62	0	2	5:42	1A	AMGO	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	2	
6/4/2020	HK, SPF	62	0	2	5:42	1A	BOBO	A	S	2	
6/4/2020	HK, SPF	62	0	2	5:55	1B	CANG	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	CANG	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	CANG	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	CANG	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	CANG	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	CANG	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	CANG	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	CANG	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	AMCR	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	AMCR	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	YEWA	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	ALFL	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	ALFL	A	S	4	
6/4/2020	HK, SPF	62	0	2	5:55	1B	Unknown Woodpecker	A	D	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	AMRO	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	RWBL	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	RWBL	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	REVI	A	S	3	
6/4/2020	HK, SPF	62	0	2	5:55	1B	SOSP	B	S	2	
6/4/2020	HK, SPF	62	0	2	5:55	1B	COYE	B	S	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	CSWA	A	S	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	AMCR	A	S	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	COYE	A	S	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	BARS	A	I	2	
6/4/2020	HK, SPF	62	0	2	6:10	1C	SWTH	A	S	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	SOSP	A	S	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	Unknown Woodpecker	B	D	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	AMRO	B	S	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	YEWA	B	S	3	
6/4/2020	HK, SPF	62	0	2	6:10	1C	BAOR	B	S	3	
6/4/2020	HK, SPF	67	0	2	6:27	2A	RWBL	A	S	2	
6/4/2020	HK, SPF	67	0	2	6:27	2A	RWBL	A	S	2	
6/4/2020	HK, SPF	67	0	2	6:27	2A	RWBL	A	S	2	
6/4/2020	HK, SPF	67	0	2	6:27	2A	RWBL	A	S	2	
6/4/2020	HK, SPF	67	0	2	6:27	2A	COYE	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:27	2A	FISP	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:27	2A	AMGO	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:27	2A	GRCA	A	S	2	
6/4/2020	HK, SPF	67	0	2	6:27	2A	GCFL	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:27	2A	SOSP	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:27	2A	SOSP	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:27	2A	BOBO	B	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/4/2020	HK, SPF	67	0	2	6:27	2A	BOBO	B	S	2	
6/4/2020	HK, SPF	67	0	2	6:40	2B	ALFL	A	S	2	
6/4/2020	HK, SPF	67	0	2	6:40	2B	FISP	A	S	2	
6/4/2020	HK, SPF	67	0	2	6:40	2B	BARS	A	I	1	
6/4/2020	HK, SPF	67	0	2	6:40	2B	BARS	A	I	1	
6/4/2020	HK, SPF	67	0	2	6:40	2B	RWBL	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:40	2B	RWBL	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:40	2B	RWBL	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:40	2B	RWBL	A	I	2	
6/4/2020	HK, SPF	67	0	2	6:40	2B	RWBL	A	I	2	
6/4/2020	HK, SPF	67	0	2	6:40	2B	AMCR	A	S	3	
6/4/2020	HK, SPF	67	0	2	6:40	2B	REVI	A	S	2	
6/4/2020	HK, SPF	67	0	2	6:40	2B	COYE	B	S	2	
6/4/2020	HK, SPF	67	0	2	6:40	2B	EATO	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	AMRO	A	I	1	
6/4/2020	HK, SPF	67	0	2	7:07	3A	RWBL	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	RWBL	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	MODO	A	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	AMGO	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	YEWA	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	RBWO	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	NOCA	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	AMRO	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	AMRO	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	AMRO	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	AMRO	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	AMCR	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:07	3A	EUST	B	I	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	EUST	B	I	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	EUST	B	I	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	EUST	B	I	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	EUST	B	I	2	
6/4/2020	HK, SPF	67	0	2	7:07	3A	EUST	B	I	2	
6/4/2020	HK, SPF	67	0	2	7:26	3B	BOBO	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:26	3B	BOBO	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:26	3B	BOBO	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:26	3B	BOBO	A	S	3	
6/4/2020	HK, SPF	67	0	2	7:26	3B	BOBO	A	S	3	
6/4/2020	HK, SPF	67	0	2	7:26	3B	BOBO	A	S	3	
6/4/2020	HK, SPF	67	0	2	7:26	3B	BOBO	A	S	1	
6/4/2020	HK, SPF	67	0	2	7:26	3B	RWBL	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:26	3B	RWBL	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:26	3B	SAVS	A	S	2	
6/4/2020	HK, SPF	67	0	2	7:26	3B	COYE	A	S	3	
6/4/2020	HK, SPF	67	0	2	7:26	3B	AMCR	A	S	3	
6/4/2020	HK, SPF	67	0	2	7:26	3B	FISP	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:26	3B	AMRO	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:26	3B	DEJU	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:26	3B	YEWA	B	S	3	
6/4/2020	HK, SPF	67	0	2	7:36	Leaving 3B	GRCA	C	S	2	
6/4/2020	HK, SPF	70	0	1	7:54	4A	COYE	A	S	2	
6/4/2020	HK, SPF	70	0	1	7:54	4A	SAVS	A	S	3	
6/4/2020	HK, SPF	70	0	1	7:54	4A	WIFL	A	S	2	
6/4/2020	HK, SPF	70	0	1	7:54	4A	ALFL	A	S	3	
6/4/2020	HK, SPF	70	0	1	7:54	4A	AMCR	A	S	3	
6/4/2020	HK, SPF	70	0	1	7:54	4A	EAPH	A	S	2	
6/4/2020	HK, SPF	70	0	1	7:54	4A	SOSP	A	S	2	
6/4/2020	HK, SPF	70	0	1	7:54	4A	BOBO	B	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/4/2020	HK, SPF	70	0	1	8:04	4B	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:04	4B	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:04	4B	RWBL	A	I	2	
6/4/2020	HK, SPF	70	0	1	8:04	4B	REVI	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:04	4B	BOBO	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:04	4B	BOBO	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:04	4B	BOBO	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:04	4B	SAVS	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:04	4B	NOCA	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:04	4B	AMCR	B	S	3	
6/4/2020	HK, SPF	70	0	1	8:04	4B	FISP	B	S	3	
6/4/2020	HK, SPF	70	0	1	8:04	4B	SOSP	B	S	3	
6/4/2020	HK, SPF	70	0	1	8:35	5A	COYE	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:35	5A	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:35	5A	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:35	5A	ALFL	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:35	5A	YEWA	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:35	5A	SAVS	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:35	5A	BWWA	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:35	5A	CANG	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:35	5A	WIFL	B	S	3	
6/4/2020	HK, SPF	70	0	1	8:35	5A	AMRO	B	S	3	
6/4/2020	HK, SPF	70	0	1	8:35	5A	RWBL	B	FO	2	
6/4/2020	HK, SPF	70	0	1	8:35	5A	BCCH	B	S	3	
6/4/2020	HK, SPF	70	0	1	8:58	6C	AMCR	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:58	6C	SOSP	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:58	6C	GRCA	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:58	6C	BOBO	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:58	6C	FISP	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:58	6C	FISP	A	S	3	
6/4/2020	HK, SPF	70	0	1	8:58	6C	SAVS	A	S	2	
6/4/2020	HK, SPF	70	0	1	8:58	6C	BLJA	B	C	2	
6/4/2020	HK, SPF	70	0	1	8:58	6C	AMCR	B	I	2	
6/4/2020	HK, SPF	70	0	1	8:58	6C	RWBL	B	I	2	
6/4/2020	HK, SPF	70	0	1	8:58	6C	RWBL	B	I	2	
6/4/2020	HK, SPF	70	0	1	8:58	6C	BAOR	B	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	TUVU	A	I	3	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	A	S	3	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	A	S	3	
6/4/2020	HK, SPF	70	0	1	9:32	6B	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	RWBL	A	S	3	
6/4/2020	HK, SPF	70	0	1	9:32	6B	RWBL	A	S	3	
6/4/2020	HK, SPF	70	0	1	9:32	6B	RWBL	A	S	3	
6/4/2020	HK, SPF	70	0	1	9:32	6B	COGR	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	COGR	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	COGR	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:32	6B	NOCA	A	S	3	
6/4/2020	HK, SPF	70	0	1	9:32	6B	TRES	B	I	1	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	B	S	1	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	B	S	1	
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	B	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/4/2020	HK, SPF	70	0	1	9:32	6B	BOBO	B	S	1	
6/4/2020	HK, SPF	70	0	1	9:32	6B	AMCR	B	S	3	
6/4/2020	HK, SPF	70	0	1	9:44	6A	MODO	A	S	3	
6/4/2020	HK, SPF	70	0	1	9:44	6A	EUST	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	EUST	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	EUST	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	EUST	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	AMCR	A	S	3	
6/4/2020	HK, SPF	70	0	1	9:44	6A	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	RWBL	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	DOWO	A	I	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	BOBO	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	BOBO	A	S	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	BCCH	B	S	3	
6/4/2020	HK, SPF	70	0	1	9:44	6A	BOBO	B	S	3	
6/4/2020	HK, SPF	70	0	1	9:44	6A	BOBO	B	S	3	
6/4/2020	HK, SPF	70	0	1	9:44	6A	RWBL	B	I	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	RWBL	B	I	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	RWBL	B	I	2	
6/4/2020	HK, SPF	70	0	1	9:44	6A	AMGO	B	S	3	
6/4/2020	HK, SPF	70	0	1	9:44	6A	TRES	B	I	1	
6/4/2020	HK, SPF	70	0	1	9:44	6A	COYE	B	S	2	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	A	S	2	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	A	S	2	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	A	S	2	
6/4/2020	HK, SPF	80	0	1	9:57	10B	RWBL	A	S	2	
6/4/2020	HK, SPF	80	0	1	9:57	10B	RWBL	A	S	2	
6/4/2020	HK, SPF	80	0	1	9:57	10B	RWBL	A	S	2	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	9:57	10B	RWBL	A	S	3	
6/4/2020	HK, SPF	80	0	1	9:57	10B	RWBL	A	S	3	
6/4/2020	HK, SPF	80	0	1	9:57	10B	RWBL	A	S	3	
6/4/2020	HK, SPF	80	0	1	9:57	10B	COYE	A	S	3	
6/4/2020	HK, SPF	80	0	1	9:57	10B	FISP	A	S	3	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	B	S	1	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	B	S	1	
6/4/2020	HK, SPF	80	0	1	9:57	10B	BOBO	B	S	1	
6/4/2020	HK, SPF	80	0	1	9:57	10B	TUVU	B	I	3	
6/4/2020	HK, SPF	80	0	1	10:07	Approaching 11A	BRTH	C	I	1	
6/4/2020	HK, SPF	80	0	1	10:11	11A	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	AMGO	A	S	2	
6/4/2020	HK, SPF	80	0	1	10:11	11A	AMGO	A	S	2	
6/4/2020	HK, SPF	80	0	1	10:11	11A	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	BOBO	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	RWBL	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	RWBL	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	RWBL	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	RWBL	A	S	3	
6/4/2020	HK, SPF	80	0	1	10:11	11A	RWBL	A	S	2	
6/4/2020	HK, SPF	80	0	1	10:11	11A	RWBL	A	S	2	



Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/5/2020	HK, SPF	62 - 72	2 - 3	3	6:46	12C	CSWA	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	6:46	12C	ALFL	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	6:46	12C	BAOR	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	6:46	12C	SAVS	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	6:46	12C	EAPH	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	6:46	12C	CEDW	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	6:57	Leaving 12B and 12C	WIFL	C	S	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	BARS	A	FO	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	CANG	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	RBWO	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	BOBO	A	S	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	BOBO	A	S	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	BOBO	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	BOBO	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	BOBO	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	SOSP	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	AMCR	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:15	12A	BBCU	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	ALFL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	RWBL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	RWBL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	KILL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	CANG	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	CANG	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	CANG	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	AMRO	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	CHSP	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	YEWA	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	YEWA	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	GRCA	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	COYE	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	SOSP	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	FISP	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	7:46	7A	AMRO	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:04	Leaving Transect 7	AMGO	C	I	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	BARS	A	I	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	BARS	A	I	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	BARS	A	I	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	RWBL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	RWBL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	RWBL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	RWBL	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	COYE	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	MODO	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	BOBO	A	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	RWBL	A	FO	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	RWBL	A	FO	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:21	9A	SAVS	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BARS	A	FO	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	RWBL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	RWBL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	RWBL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BOBO	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BOBO	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BOBO	A	FO	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	RWBL	A	C	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	RWBL	A	C	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	BOBO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	WIFL	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:34	9B	AMCR	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	REVI	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	YEWA	A	S	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	YEWA	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	YEWA	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	RTHA	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	ALFL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	CHSP	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	AMRO	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	COYE	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	FISP	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	BWWA	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	MODO	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:29	8A	SOSP	B	FO	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	FISP	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	RTHA	A	C	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	ALFL	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	AMCR	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	BAOR	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	YEWA	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	YEWA	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	TUVU	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	EAPH	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	CSWA	A	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	KILL	A	FO	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	SAVS	A	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	BOBO	B	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	BOBO	B	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/5/2020	HK, SPF	62 - 72	2 - 3	3	9:40	8B	BLJA	B	FO	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	I	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	BOBO	A	I	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	MODO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	YEWA	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	YEWA	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	YEWA	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	AMRO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	AMCR	A	C	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	AMGO	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	AMGO	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:36	1A	AMGO	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	SWTH	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	SWTH	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	DOWO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	DOWO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	WOTH	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	BWWA	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	AMRO	B	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	NOFL	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	GRCA	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	CSWA	B	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	CSWA	B	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	5:52	1D	AMRO	B	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	SOSP	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	SOSP	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	AMRO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	REVI	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	RWBL	A	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	RWBL	A	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	YEWA	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	FISP	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	EAME	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	GRCA	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	BARS	B	FO	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:12	1B	COYE	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	BBCU	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	COYE	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	SAVS	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	RWBL	A	FO	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	BARS	A	FO	1	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	BARS	A	FO	1	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	GRCA	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	WOTH	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	SOSP	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	SOSP	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	TRES	A	FO	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	NOCA	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	CHSP	B	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	AMRO	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	AMRO	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:32	1C	MODO	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	AMRO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	YEWA	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	YEWA	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	MODO	A	FO	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	NOCA	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	AMCR	A	FO	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	AMCR	A	FO	2	
6/12/2020	HK	56 - 60	0	2 - 3	6:46	2B	BARS	B	FO	2	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	GRCA	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	BAOR	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	SOSP	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	AMRO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	AMRO	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:12	2A	COYE	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	RWBL	A	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	GRCA	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	AMRO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	NOCA	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	AMCR	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	MODO	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	AMRO	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	7:40	3A	BARS	B	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	7:54	Approaching 3B	CHSP	C	I	1	
6/12/2020	HK	56 - 60	0	2 - 3	7:54	Approaching 3B	SAVS	C	I	1	
6/12/2020	HK	56 - 60	0	2 - 3	7:55	Approaching 3B	COYE	C	I	1	
6/12/2020	HK	56 - 60	0	2 - 3	7:57	Approaching 3B	MALL	C	FO	1	
6/12/2020	HK	56 - 60	0	2 - 3	7:58	Approaching 3B	TUVU	C	FO	1	
6/12/2020	HK	56 - 60	0	2 - 3	7:59	Approaching 3B	SOSP	C	I	1	
6/12/2020	HK	56 - 60	0	2 - 3	8:00	Approaching 3B	BHCO	C	I	1	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	RWBL	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	RWBL	A	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	SOSP	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	SOSP	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	BOBO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	BOBO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	BOBO	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	SAVS	A	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	BARS	A	I	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	GRCA	B	S	3	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	BOBO	B	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	BOBO	B	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	BOBO	B	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	AMCR	B	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	SAVS	B	S	1	
6/12/2020	HK	56 - 60	0	2 - 3	8:04	3B	EAME	B	S	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:15	Leaving 3B	EAKI	C	FO	2	
6/12/2020	HK	56 - 60	0	2 - 3	8:18	Leaving 3B	RBWO	C	I	1	
6/12/2020	HK	60	0	2	8:48	Approaching 4A	BWWA	C	S	1	
6/12/2020	HK	60	0	2	8:53	4A	SAVS	A	S	2	
6/12/2020	HK	60	0	2	8:53	4A	SAVS	A	S	2	
6/12/2020	HK	60	0	2	8:53	4A	SOSP	A	S	2	
6/12/2020	HK	60	0	2	8:53	4A	SOSP	A	S	2	
6/12/2020	HK	60	0	2	8:53	4A	COYE	A	S	2	
6/12/2020	HK	60	0	2	8:53	4A	COYE	A	S	2	
6/12/2020	HK	60	0	2	8:53	4A	AMCR	B	S	3	
6/12/2020	HK	60	0	2	8:53	4A	NOCA	B	S	3	
6/12/2020	HK	60	0	2	8:53	4A	CORA	B	C	3	
6/12/2020	HK	60	0	2	9:02	4B	BOBO	A	S	1	
6/12/2020	HK	60	0	2	9:02	4B	RWBL	A	S	3	
6/12/2020	HK	60	0	2	9:02	4B	RWBL	A	S	3	
6/12/2020	HK	60	0	2	9:02	4B	TUVU	A	I	3	
6/12/2020	HK	60	0	2	9:02	4B	AMCR	A	S	3	
6/12/2020	HK	60	0	2	9:02	4B	AMCR	A	S	3	
6/12/2020	HK	60	0	2	9:02	4B	SOSP	A	S	3	
6/12/2020	HK	60	0	2	9:02	4B	RWBL	A	FO	3	
6/12/2020	HK	60	0	2	9:02	4B	COYE	B	S	3	
6/12/2020	HK	60	0	2	9:02	4B	COYE	B	S	3	
6/12/2020	HK	60	0	2	9:02	4B	AMRO	B	S	3	
6/12/2020	HK	60	0	2	9:02	4B	EAME	B	C	3	
6/12/2020	HK	60	0	2	9:02	4B	FISP	B	S	3	
6/12/2020	HK	60	0	2	9:02	4B	BOBO	B	S	3	
6/12/2020	HK	60	0	2	9:02	4B	BOBO	B	S	3	
6/12/2020	HK	60	0	2	9:17	4C	REVI	A	S	2	
6/12/2020	HK	60	0	2	9:17	4C	WAVI	A	S	2	
6/12/2020	HK	60	0	2	9:17	4C	WIFL	A	S	2	
6/12/2020	HK	60	0	2	9:17	4C	ALFL	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	NOCA	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	5:20	14A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	5:20	14A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	5:20	14A	COYE	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:20	14A	HOWR	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/18/2020	HK	59 - 61	2	1	5:20	14A	AMRO	A	S	3	
6/18/2020	HK	59 - 61	2	1	5:20	14A	AMRO	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	GCFL	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	COYE	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	NOCA	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	NOCA	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	NOCA	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	EAPH	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	WOTH	A	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	AMRO	B	S	2	
6/18/2020	HK	59 - 61	2	1	5:34	14B	AMCR	B	S	3	
6/18/2020	HK	59 - 61	2	1	5:47	Leaving Transect 14	KILL	C	FO	1	
6/18/2020	HK	59 - 61	2	1	5:47	Leaving Transect 14	KILL	C	FO	1	
6/18/2020	HK	59 - 61	2	1	6:01	13B	ALFL	A	S	1	
6/18/2020	HK	59 - 61	2	1	6:01	13B	YEWA	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	RWBL	A	C	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	RWBL	A	C	3	
6/18/2020	HK	59 - 61	2	1	6:01	13B	BOBO	A	S	1	
6/18/2020	HK	59 - 61	2	1	6:01	13B	BOBO	A	S	1	
6/18/2020	HK	59 - 61	2	1	6:01	13B	BOBO	A	S	1	
6/18/2020	HK	59 - 61	2	1	6:01	13B	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	WIFL	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:01	13B	MODO	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:01	13B	AMRO	B	S	3	
6/18/2020	HK	59 - 61	2	1	6:01	13B	AMGO	B	S	1	
6/18/2020	HK	59 - 61	2	1	6:15	Approaching 13A	SOSP	C	S	1	
6/18/2020	HK	59 - 61	2	1	6:15	Approaching 13A	SOSP	C	S	1	
6/18/2020	HK	59 - 61	2	1	6:15	Approaching 13A	SOSP	C	S	1	
6/18/2020	HK	59 - 61	2	1	6:15	Approaching 13A	YEWA	C	I	1	
6/18/2020	HK	59 - 61	2	1	6:15	Approaching 13A	ALFL	C	S	1	
6/18/2020	HK	59 - 61	2	1	6:15	Approaching 13A	GCFL	C	S	1	
6/18/2020	HK	59 - 61	2	1	6:15	Approaching 13A	WIFL	C	S	1	
6/18/2020	HK	59 - 61	2	1	6:21	13A	GBHE	A	FO	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	GBHE	A	FO	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	SOSP	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	SOSP	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	SOSP	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	YEWA	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	WIFL	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	MODO	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	COGR	A	C	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	COGR	A	C	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	BOBO	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/18/2020	HK	59 - 61	2	1	6:21	13A	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:21	13A	AMCR	B	C	3	
6/18/2020	HK	59 - 61	2	1	6:21	13A	EAME	B	S	3	
6/18/2020	HK	59 - 61	2	1	6:32	Leaving Transect 13	BARS	C	FO	3	
6/18/2020	HK	59 - 61	2	1	6:41	Leaving Transect 13	EAME	C	C	2	
6/18/2020	HK	59 - 61	2	1	6:41	Leaving Transect 13	EAME	C	C	2	
6/18/2020	HK	59 - 61	2	1	6:41	Leaving Transect 13	EABL	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:51	Arriving at Transect 12	EUST	C	I	2	
6/18/2020	HK	59 - 61	2	1	6:57	12A	COYE	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:57	12A	SAVS	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:57	12A	SAVS	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:57	12A	SAVS	A	S	2	
6/18/2020	HK	59 - 61	2	1	6:57	12A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:57	12A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:57	12A	AMCR	A	S	3	
6/18/2020	HK	59 - 61	2	1	6:57	12A	YEWA	B	S	3	
6/18/2020	HK	59 - 61	2	1	6:57	12A	RWBL	B	S	3	
6/18/2020	HK	59 - 61	2	1	6:57	12A	RWBL	B	S	3	
6/18/2020	HK	59 - 61	2	1	6:57	12A	RWBL	B	S	3	
6/18/2020	HK	59 - 61	2	1	7:14	12B	REVI	A	S	2	
6/18/2020	HK	59 - 61	2	1	7:14	12B	AMRO	A	S	3	
6/18/2020	HK	59 - 61	2	1	7:14	12B	NOCA	A	S	3	
6/18/2020	HK	59 - 61	2	1	7:14	12B	BLJA	A	C	3	
6/18/2020	HK	59 - 61	2	1	7:14	12B	BTNW	B	S	2	
6/18/2020	HK	59 - 61	2	1	7:14	12B	AMRE	B	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/18/2020	HK	59 - 61	2	1	7:14	12B	AMRE	B	S	2	
6/18/2020	HK	59 - 61	2	1	7:37	12C	GCFL	A	S	3	
6/18/2020	HK	59 - 61	2	1	7:37	12C	SOSP	A	S	1	
6/18/2020	HK	59 - 61	2	1	7:37	12C	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	7:37	12C	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	7:37	12C	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	7:37	12C	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	7:37	12C	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	7:37	12C	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	7:37	12C	AMRE	B	S	3	
6/18/2020	HK	59 - 61	2	1	7:37	12C	BLJA	B	C	2	
6/18/2020	HK	59 - 61	2	1	7:37	12C	AMRO	B	S	3	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	1	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	1	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	1	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	8:00	10A	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	8:00	10A	SOSP	A	S	1	
6/18/2020	HK	59 - 61	2	1	8:00	10A	SOSP	A	S	1	
6/18/2020	HK	59 - 61	2	1	8:00	10A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	8:00	10A	BOBO	A	S	3	
6/18/2020	HK	59 - 61	2	1	8:00	10A	YEWA	B	S	2	
6/18/2020	HK	59 - 61	2	1	8:00	10A	NOCA	B	S	3	
6/18/2020	HK	59 - 61	2	1	8:00	10A	SAVS	B	S	1	
6/18/2020	HK	59 - 61	2	1	8:11	10B	MODO	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:11	10B	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:11	10B	RWBL	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:11	10B	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	8:11	10B	RWBL	A	S	3	
6/18/2020	HK	59 - 61	2	1	8:11	10B	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:11	10B	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:11	10B	BOBO	A	S	2	
6/18/2020	HK	59 - 61	2	1	8:11	10B	EAME	A	S	1	
6/18/2020	HK	59 - 61	2	1	8:11	10B	EAME	B	S	2	
6/18/2020	HK	59 - 61	2	1	8:11	10B	SAVS	B	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BOBO	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	RWBL	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	RWBL	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	RWBL	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	BARS	A	FO	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	RWBL	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	RWBL	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:29	11A	RWBL	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BLJA	A	C	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	EUST	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	EUST	A	S	4	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	EUST	A	S	5	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	EUST	A	S	6	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	EUST	A	S	7	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	EUST	A	S	8	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	EUST	A	S	9	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	EUST	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	RWBL	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	RWBL	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	RWBL	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BARS	B	FO	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	RWBL	B	FO	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	RWBL	B	FO	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	RWBL	B	FO	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	B	FO	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	B	FO	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	BOBO	B	FO	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	8:48	9C	GRCA	B	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	AMRO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	AMRO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	GRCA	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	GRCA	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	AMRO	A	I	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	RWBL	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	RWBL	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	SOSP	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	AMCR	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	AMCR	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	AMCR	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	RWBL	B	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	KILL	B	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	KILL	B	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	GBHE	B	FO	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	GBHE	B	FO	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	SAVS	B	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:09	9A	TRES	B	FO	A	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:31	Approaching 9B	Unknown Raptor	C	FO	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:42	Approaching 9B	RTHA	C	C	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	BOBO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	YEWA	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	BARS	A	FO	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	SAVS	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	SAVS	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	SOSP	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	SOSP	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	GRCA	A	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	AMGO	A	C	1	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	AMGO	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	WIFL	A	S	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	TRES	B	FO	2	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	AMRO	B	S	3	
6/18/2020	HK	61 - 67	0 - 1	1 - 2	9:48	9B	AMRO	B	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	MODO	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	RWBL	A	C	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	RWBL	A	C	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	WIFL	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	COYE	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	SAVS	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	SAVS	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	COYE	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	ROPI	A	I	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	ROPI	A	I	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	ROPI	A	I	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	YBCU	B	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	CEDW	C	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	CEDW	C	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	AMRO	C	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BARS	C	I	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	YBCU	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	AMCR	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	SOSP	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	AMRO	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	MODO	B	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	BBCO	B	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	EAME	C	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	GRCA	C	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	WBNU	C	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	5:42	9A	AMRO	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BLJA	A	C	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	NOCA	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	NOCA	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	NOCA	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	NOCA	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	YEWA	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	AMCR	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	MODO	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	RWBL	A	C	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	COYE	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	YBCU	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	SOSP	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	COYE	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	COYE	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	SAVS	B	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:10	9C	RWBL	B	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	WIFL	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	SOSP	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	HOWR	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	BOBO	A	SC	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	AMRO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	AMCR	A	FO	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	BARS	A	I	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	MODO	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:33	10A	ROPI	B	I	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	RWBL	A	C	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	HOWR	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	AMCR	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	EAME	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	WIFL	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	COYE	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	RWBL	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	AMRO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	YEWA	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	EATO	B	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	Unknown Warbler	B	I	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:41	10B	COGR	B	FO	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:50	Approaching transect 11	BRTH	C	I	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:50	Approaching transect 11	BRTH	C	I	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	AMCR	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	SAVS	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	SAVS	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	SAVS	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	WBNU	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	6:58	11A	BARS	B	I	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	KILL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	SAVS	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	SAVS	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	BOBO	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	SAVS	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	AMCR	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:20	12A	AMCR	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:40	12B	AMCR	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:40	12B	WOTH	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:40	12B	WOTH	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:40	12B	BTGW	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:40	12B	REVI	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:40	12B	BCCH	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	7:40	12B	EAWP	B	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	EAME	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	EAME	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	OVEN	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	RWBL	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	AMGO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	AMCR	A	C	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	BLJA	B	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:08	12C	SOSP	B	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	RWBL	A	C	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	BOBO	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	EAME	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	AMCR	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	REVI	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	AMRO	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	WIFL	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	WIFL	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	YEWA	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	YEWA	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	AMGO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:47	13B	AMGO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:54	13B to 13 A	FISP	C	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:54	13B to 13 A	COYE	C	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	8:59	13B to 13 A	WAVI	C	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	GCFL	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	RWBL	A	C	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	SOSP	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	YEWA	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	YEWA	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	TRES	A	I	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	WBNU	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	TC	56-61	0 - 1	1 - 3	9:06	13A	MODO	B	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	AMRO	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	AMRO	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	COYE	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	CORA	A	FO	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	YEWA	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	RWBL	A	C	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	RWBL	A	C	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	NOCA	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	SOSP	A	S	1	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	BOBO	A	S	2	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	BOBO	A	S	3	
6/12/2020	TC	56-61	0 - 1	1 - 3	9:54	5C	BOBO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	MODO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	RWBL	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	NOCA	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	BOBO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	AMRO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	AMRO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	COYE	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	AMCR	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	GCFL	B	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:26	1A	HOWR	B	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:38	1A to 1D	WOTH	C	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:38	1A to 1D	WBNU	C	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	VEER	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	WOTH	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	MODO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	GRCA	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	BCCH	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	AMRO	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	BLJA	A	I	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	EAWP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	SOSP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	5:44	1D	REVI	B	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	SOSP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	SOSP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	HOWR	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	AMRO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	SOSP	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	SOSP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	HOWR	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	MODO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	AMCR	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	CEDW	B	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	COYE	B	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	EAWP	B	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	YEWA	B	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	EATO	B	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:04	1B	RWBL	B	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	HOWR	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	SOSP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	SOSP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	MODO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	SOSP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	BARS	A	I	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	SOSP	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	SOSP	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	HETH	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	YEWA	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:19	1C	RWBL	B	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	REVI	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	HOWR	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	YEWA	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	YEWA	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	SOSP	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	RWBL	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	AMRO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	SOSP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	SAVS	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	SAVS	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	AMCR	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	WIFL	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	SOSP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	COYE	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	WOTH	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:33	2B	SAVS	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:43	2B to 2A	WITU	C	I	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	AMRO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	AMRO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	MODO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	SOSP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	RWBL	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	RWBL	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	RWBL	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	RWBL	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	SAVS	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	SAVS	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	WIFL	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	SOSP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	BOBO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	AMGO	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	YEWA	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	TRES	A	I	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	6:48	2A	KILL	B	I	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	FISP	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	SAVS	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	SAVS	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	SAVS	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	BOBO	A	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	BOBO	A	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	RWBL	A	C	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	RWBL	A	C	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	AMCR	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	AMCR	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	AMRO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	YEWA	B	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:17	3B	BARS	B	I	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:25	3B to 3A	EAME	C	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	AMRO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	HOWR	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	HOWR	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	BOBO	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	GRCA	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	SOSP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	AMCR	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	AMRO	A	I	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	AMRE	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	7:31	3A	HOWR	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	BOBO	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	FISP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	COYE	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	RWBL	A	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	WIFL	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	SAVS	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	SOSP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	YEWA	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	WIFL	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	WIFL	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	NOCA	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	EAWP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	BHCO	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:02	4A	HOWR	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:10	4A to 4B	BAOR	C	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	AMCR	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	COYE	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	COYE	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	NOCA	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	NOCA	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	RWBL	A	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	HOWR	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	HOWR	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	AMGO	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	YEWA	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	EAWP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	SOSP	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	SOSP	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	FISP	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:11	4B	BAOR	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:23	4B to 4C	YBCU	C	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:23	4B to 4C	VEER	C	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:23	4B to 4C	AMRE	C	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	8:28	4C	OVEN	A	S	1	



Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/18/2020	TC	61-65	0 - 1	2 - 3	9:41	5C	SOSP	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:41	5C	SOSP	A	S	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:41	5C	RWBL	A	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:41	5C	RWBL	A	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:41	5C	REVI	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:41	5C	SOSP	A	S	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:41	5C	COYE	A	S	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	1	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	BOBO	A	A	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	RWBL	A	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	RWBL	A	C	2	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	RWBL	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	RWBL	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	RWBL	A	C	3	
6/18/2020	TC	61-65	0 - 1	2 - 3	9:59	5B	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	AMRO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	EAME	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	EAME	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	COYE	B	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	AMCR	B	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:46	10A	AMGO	B	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	AMWO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	RWBL	A	C	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	BOBO	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	RWBL	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	TRES	B	I	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	HOWR	B	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:54	10B	COYE	B	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	RWBL	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	RWBL	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	SOSP	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	I	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	I	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:08	11A	BOBO	A	I	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	SAVS	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	SAVS	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	BOBO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	BOBO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	BOBO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	AMCR	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	EAWP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	EAWP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	AMRO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	SOSP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	EAME	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	RWBL	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	RWBL	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:29	12A	MODO	B	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	BTNW	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	COYE	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	COYE	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	REVI	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	OVEN	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	OVEN	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	OVEN	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	HOWR	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	OVEN	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	REVI	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	EAWP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	YEWA	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	8:46	12B	WITU	B	C	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	FISP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	YEWA	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	AMGO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	AMGO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	SOSP	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	YEWA	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	EAWP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:06	12C	REVI	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	SOSP	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	SOSP	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	RWBL	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	RWBL	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	RWBL	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	RWBL	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	WIFL	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	AMGO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	COYE	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	AMGO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	AMRO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	SAVS	B	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	TUVU	B	FO	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	BOBO	B	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	9:47	2A	GRCA	B	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	5:55	Approaching Transect 8	BOBO	C	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	5:55	Approaching Transect 8	BOBO	C	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	5:55	Approaching Transect 8	BOBO	C	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	5:55	Approaching Transect 8	EAME	C	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	5:55	Approaching Transect 8	SAVS	C	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	WITU	A	I	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	EATO	A	I	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	REVI	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	AMRE	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	AMRE	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	EAWP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	AMCR	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	AMCR	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	AMCR	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	SOSP	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	SOSP	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	RBWO	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	MODO	B	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	AMRO	B	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	EAME	B	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	BOBO	B	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:08	8C	RTHA	B	C	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	EATO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	SOSP	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	SOSP	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	MODO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	AMCR	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	FISP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	AMRO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	AMRO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	RTHA	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	NOFL	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	REVI	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	EAWP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	BHCO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	EAPH	B	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:21	8B	COYE	B	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	FISP	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	YEWA	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	YEWA	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	WIFL	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	MODO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	RTHA	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	GRCA	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	GRCA	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	AMRO	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	AMCR	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	SOSP	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:31	8A	SOSP	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:41	Leaving T8	MERL	C	FO	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:41	Leaving T8	EAME	C	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	RWBL	A	C	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	RWBL	A	C	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	RWBL	A	C	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	BOBO	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	BOBO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	MODO	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	FISP	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	6:51	9C	YEWA	B	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	SAVS	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	AMRO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	RWBL	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	FISP	A	C	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	SAVS	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	COYE	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	MODO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	GRCA	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	Unknown Woodpecker	A	D	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:05	9B	AMRO	B	C	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	BARS	C	FO	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EUST	C	I	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	AMGO	C	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	EAPH	C	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:11	9B to 9A	HOWR	C	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	KILL	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	SAVS	A	S	2	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	SAVS	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	EAME	A	S	1	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	COYE	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	YEWA	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	YEWA	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	EAME	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	WIFL	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	AMRO	A	S	3	
6/22/2020	TC	65 - 78	1 - 4	2 - 3	7:18	9A	HOWR	B	S	3	
6/22/2020	HK	65 - 71	1	1	5:50	7A	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	MODO	A	S	3	
6/22/2020	HK	65 - 71	1	1	5:50	7A	AMCR	A	S	3	
6/22/2020	HK	65 - 71	1	1	5:50	7A	FISP	A	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	COYE	A	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	YEWA	A	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	RWBL	A	S	3	
6/22/2020	HK	65 - 71	1	1	5:50	7A	RWBL	A	S	3	
6/22/2020	HK	65 - 71	1	1	5:50	7A	RWBL	A	S	3	
6/22/2020	HK	65 - 71	1	1	5:50	7A	AMGO	A	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	AMGO	A	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	COGR	B	S	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	RWBL	B	C	2	
6/22/2020	HK	65 - 71	1	1	5:50	7A	AMRO	B	S	3	
6/22/2020	HK	65 - 71	1	1	5:50	7A	BOBO	B	S	3	
6/22/2020	HK	65 - 71	1	1	5:50	7A	WIFL	B	S	3	
6/22/2020	HK	65 - 71	1	1	6:06	7B	WIFL	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	BOBO	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	BOBO	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/22/2020	HK	65 - 71	1	1	6:06	7B	BOBO	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	YEWA	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	AMCR	A	S	3	
6/22/2020	HK	65 - 71	1	1	6:06	7B	AMCR	A	S	3	
6/22/2020	HK	65 - 71	1	1	6:06	7B	RWBL	A	C	1	
6/22/2020	HK	65 - 71	1	1	6:06	7B	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	FISP	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	FISP	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	KILL	A	S	3	
6/22/2020	HK	65 - 71	1	1	6:06	7B	SAVS	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	SOSP	B	S	2	
6/22/2020	HK	65 - 71	1	1	6:06	7B	SOSP	B	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	TUVU	A	FO	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	RTHA	A	C	3	
6/22/2020	HK	65 - 71	1	1	6:35	6C	SOSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	SOSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	YEWA	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	YEWA	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	FISP	A	S	3	
6/22/2020	HK	65 - 71	1	1	6:35	6C	WIFL	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	BOBO	A	S	3	
6/22/2020	HK	65 - 71	1	1	6:35	6C	BOBO	A	C	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	BOBO	A	C	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	AMRO	B	S	3	
6/22/2020	HK	65 - 71	1	1	6:35	6C	AMCR	B	S	3	
6/22/2020	HK	65 - 71	1	1	6:35	6C	COYE	B	S	2	
6/22/2020	HK	65 - 71	1	1	6:35	6C	EATO	B	S	2	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	6:49	Leaving 6C	BOBO	C	S	1	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	1	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	1	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	1	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	1	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	1	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	1	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BOBO	A	S	1	
6/22/2020	HK	65 - 71	1	1	7:00	6B	AMCR	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:00	6B	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	RWBL	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/22/2020	HK	65 - 71	1	1	7:00	6B	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	RWBL	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:00	6B	AMGO	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:00	6B	COYE	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:00	6B	ALFL	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:00	6B	BARS	B	S	3	
6/22/2020	HK	65 - 71	1	1	7:00	6B	EAME	B	S	3	
6/22/2020	HK	65 - 71	1	1	7:15	6A	REVI	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:15	6A	WIFL	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:15	6A	RWBL	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:15	6A	RWBL	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:15	6A	RWBL	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:15	6A	SOSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:15	6A	EAPH	B	S	2	
6/22/2020	HK	65 - 71	1	1	7:15	6A	YEWA	B	S	3	
6/22/2020	HK	65 - 71	1	1	7:15	6A	AMRO	B	S	3	
6/22/2020	HK	65 - 71	1	1	7:15	6A	NOCA	B	S	3	
6/22/2020	HK	65 - 71	1	1	7:43	5A	SOSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:43	5A	YEWA	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:43	5A	AMGO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:43	5A	AMGO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:43	5A	AMGO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:43	5A	AMGO	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:43	5A	CEDW	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:43	5A	COYE	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:43	5A	EATO	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:43	5A	GRSP	B	S	1	
6/22/2020	HK	65 - 71	1	1	7:43	5A	AMRE	B	S	2	
6/22/2020	HK	65 - 71	1	1	7:56	5B	GRSP	A	S	1	
6/22/2020	HK	65 - 71	1	1	7:56	5B	GRSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:56	5B	NOCA	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:56	5B	SOSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:56	5B	SOSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:56	5B	AMRO	A	S	3	
6/22/2020	HK	65 - 71	1	1	7:56	5B	COYE	A	S	2	
6/22/2020	HK	65 - 71	1	1	7:56	5B	AMGO	B	S	2	
6/22/2020	HK	65 - 71	1	1	7:56	5B	AMCR	B	S	3	
6/22/2020	HK	65 - 71	1	1	7:56	5B	EAPH	B	S	3	
6/22/2020	HK	65 - 71	1	1	7:56	5B	BCCH	B	S	3	
6/22/2020	HK	65 - 71	1	1	8:08	Leaving 5B	BWWA	C	S	2	
6/22/2020	HK	65 - 71	1	1	8:10	Leaving 5B	GCFL	C	S	2	
6/22/2020	HK	65 - 71	1	1	8:24	Approaching 4A	CEDW	C	S	1	
6/22/2020	HK	65 - 71	1	1	8:24	Approaching 4A	CEDW	C	S	1	
6/22/2020	HK	65 - 71	1	1	8:27	4A	COYE	A	S	1	
6/22/2020	HK	65 - 71	1	1	8:27	4A	COYE	A	S	2	
6/22/2020	HK	65 - 71	1	1	8:27	4A	FISP	A	S	2	
6/22/2020	HK	65 - 71	1	1	8:27	4A	SOSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	8:27	4A	SOSP	A	S	2	
6/22/2020	HK	65 - 71	1	1	8:27	4A	AMRO	A	S	2	
6/22/2020	HK	65 - 71	1	1	8:27	4A	WBNU	A	S	2	
6/22/2020	HK	65 - 71	1	1	8:27	4A	AMRO	B	S	3	
6/22/2020	HK	65 - 71	1	1	8:27	4A	AMCR	B	S	3	
6/22/2020	HK	65 - 71	1	1	8:27	4A	WIFL	B	S	3	
6/22/2020	HK	65 - 71	1	1	8:27	4A	REVI	B	S	3	
6/22/2020	HK	71 - 72	1	1	8:37	4B	FISP	A	S	2	
6/22/2020	HK	71 - 72	1	1	8:37	4B	SOSP	A	S	2	
6/22/2020	HK	71 - 72	1	1	8:37	4B	SOSP	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/22/2020	HK	71 - 72	1	1	8:37	4B	BOBO	A	S	2	
6/22/2020	HK	71 - 72	1	1	8:37	4B	BOBO	A	S	2	
6/22/2020	HK	71 - 72	1	1	8:37	4B	BOBO	A	S	2	
6/22/2020	HK	71 - 72	1	1	8:37	4B	BOBO	A	S	2	
6/22/2020	HK	71 - 72	1	1	8:37	4B	WOTH	A	S	3	
6/22/2020	HK	71 - 72	1	1	8:37	4B	AMRO	A	S	3	
6/22/2020	HK	71 - 72	1	1	8:37	4B	FISP	B	S	3	
6/22/2020	HK	71 - 72	1	1	8:37	4B	FISP	B	S	3	
6/22/2020	HK	71 - 72	1	1	8:37	4B	YEWA	B	S	3	
6/22/2020	HK	71 - 72	1	1	8:50	4C	WOTH	A	S	2	
6/22/2020	HK	71 - 72	1	1	8:50	4C	Unknown Woodpecker	A	D	3	
6/22/2020	HK	71 - 72	1	1	8:50	4C	REVI	A	S	3	
6/22/2020	HK	71 - 72	1	1	8:50	4C	AMRO	A	S	3	
6/22/2020	HK	71 - 72	1	1	8:50	4C	COYE	A	S	3	
6/22/2020	HK	71 - 72	1	1	8:50	4C	YEWA	A	S	3	
6/22/2020	HK	71 - 72	1	1	8:50	4C	AMCR	A	S	3	
6/22/2020	HK	71 - 72	1	1	8:50	4C	NOCA	B	S	3	
6/22/2020	HK	71 - 72	1	1	9:10	Leaving 4C	WAVI	C	S	1	
6/22/2020	HK	71 - 72	1	1	9:10	Leaving 4C	INBU	C	S	1	
6/22/2020	HK	71 - 72	1	1	9:25	3A	EAPH	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:25	3A	FISP	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:25	3A	GCFL	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:25	3A	NOCA	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:25	3A	WAVI	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:25	3A	COYE	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:25	3A	GRCA	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:25	3A	CEDW	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:25	3A	BBCU	B	S	2	
6/22/2020	HK	71 - 72	1	1	9:25	3A	AMRO	B	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	RWBL	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	RWBL	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	RWBL	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	RWBL	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	RWBL	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	BOBO	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	BOBO	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	BOBO	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	BOBO	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	BOBO	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	BOBO	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	BOBO	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	BOBO	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	NOCA	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	FISP	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	EAME	A	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	COYE	A	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	SAVS	B	S	2	
6/22/2020	HK	71 - 72	1	1	9:36	3B	AMCR	B	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	ALFL	B	S	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	TUVU	B	FO	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	TUVU	B	FO	3	
6/22/2020	HK	71 - 72	1	1	9:36	3B	TUVU	B	FO	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	2	
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	2	
7/1/2020	HK	58 - 68	1	1	5:45	13B	RWBL	A	S	2	
7/1/2020	HK	58 - 68	1	1	5:45	13B	MODO	A	S	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	AMCR	A	C	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	AMCR	A	C	3	
7/1/2020	HK	58 - 68	1	1	5:45	13B	SOSP	A	S	1	
7/1/2020	HK	58 - 68	1	1	5:45	13B	SWSP	A	S	2	
7/1/2020	HK	58 - 68	1	1	5:45	13B	BOBO	A	S	1	
7/1/2020	HK	58 - 68	1	1	5:45	13B	BOBO	A	S	1	
7/1/2020	HK	58 - 68	1	1	5:45	13B	AMRO	B	S	2	
7/1/2020	HK	58 - 68	1	1	5:55	13B to 13A	RTHA	C	C	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	CEDW	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:00	13A	COYE	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	NOFL	A	C	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	GRCA	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	SOSP	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:00	13A	SOSP	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:00	13A	AMRO	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	AMCR	A	C	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	BOBO	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	BOBO	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	MODO	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:00	13A	RWBL	B	S	2	
7/1/2020	HK	58 - 68	1	1	6:00	13A	RWBL	B	S	2	
7/1/2020	HK	58 - 68	1	1	6:00	13A	YEWA	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:09	Leaving 13A	WIFL	C	S	2	
7/1/2020	HK	58 - 68	1	1	6:15	Leaving 13A	BARS	C	I	1	
7/1/2020	HK	58 - 68	1	1	6:15	Leaving 13A	TRES	C	I	1	
7/1/2020	HK	58 - 68	1	1	6:29	14B	OVEN	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:29	14B	GCFL	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:29	14B	EATO	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:29	14B	EAWP	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:29	14B	DOWO	B	C	2	
7/1/2020	HK	58 - 68	1	1	6:43	14A	AMGO	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:43	14A	AMGO	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:43	14A	AMGO	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RWBL	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RWBL	A	S	2	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RBWO	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RWBL	A	C	1	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RWBL	A	C	1	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RWBL	A	C	1	
7/1/2020	HK	58 - 68	1	1	6:43	14A	MODO	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	EAWP	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	WIFL	A	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	EUST	B	C	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	EUST	B	C	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	EUST	B	C	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/1/2020	HK	58 - 68	1	1	6:43	14A	EUST	B	C	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	EUST	B	C	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	EUST	B	C	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	AMGO	B	FO	1	
7/1/2020	HK	58 - 68	1	1	6:43	14A	AMGO	B	FO	1	
7/1/2020	HK	58 - 68	1	1	6:43	14A	BCCH	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	AMRO	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	GCFL	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RWBL	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RWBL	B	S	3	
7/1/2020	HK	58 - 68	1	1	6:43	14A	RWBL	B	S	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	SAVS	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:00	12A	SAVS	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:00	12A	EAWP	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	GCFL	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	RWBL	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:00	12A	RWBL	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:00	12A	RWBL	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:00	12A	AMRO	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	YEWA	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	EAME	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	AMCR	B	C	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	BOBO	B	C	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	BOBO	B	C	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	SOSP	B	S	3	
7/1/2020	HK	58 - 68	1	1	7:00	12A	SOSP	B	S	3	
7/1/2020	HK	58 - 68	1	1	7:06	12A to 12C	KILL	C	I	2	
7/1/2020	HK	58 - 68	1	1	7:06	12A to 12C	KILL	C	I	2	
7/1/2020	HK	58 - 68	1	1	7:06	12A to 12C	KILL	C	I	2	
7/1/2020	HK	58 - 68	1	1	7:06	12A to 12C	KILL	C	I	2	
7/1/2020	HK	58 - 68	1	1	7:06	12A to 12C	TRES	C	FO	2	
7/1/2020	HK	58 - 68	1	1	7:11	12A to 12C	RBGR	C	C	2	
7/1/2020	HK	58 - 68	1	1	7:19	12C	OVEN	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:19	12C	OVEN	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:19	12C	OVEN	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:19	12C	EAWP	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:19	12C	BOBO	A	S	1	
7/1/2020	HK	58 - 68	1	1	7:19	12C	BOBO	A	S	1	
7/1/2020	HK	58 - 68	1	1	7:19	12C	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:19	12C	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:19	12C	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:19	12C	RWBL	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:19	12C	REVI	B	S	3	
7/1/2020	HK	58 - 68	1	1	7:19	12C	EAWP	B	S	1	
7/1/2020	HK	58 - 68	1	1	7:19	12C	Unknown Woodpecker	B	D	3	
7/1/2020	HK	58 - 68	1	1	7:19	12C	SOSP	B	S	2	
7/1/2020	HK	58 - 68	1	1	7:19	12C	COYE	B	S	2	
7/1/2020	HK	58 - 68	1	1	7:35	12B	EAWP	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:35	12B	OVEN	A	S	1	
7/1/2020	HK	58 - 68	1	1	7:35	12B	OVEN	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:35	12B	AMRO	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:35	12B	HOWR	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:35	12B	AMCR	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:35	12B	WOTH	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:35	12B	WOTH	A	S	3	
7/1/2020	HK	58 - 68	1	1	7:35	12B	REVI	A	S	2	
7/1/2020	HK	58 - 68	1	1	7:35	12B	HOWA	B	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/1/2020	HK	58 - 68	1	1	7:35	12B	HOWA	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	C	1	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	BOBO	A	C	1	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	SOSP	A	S	1	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	RWBL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	RWBL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	RWBL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	SOSP	B	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:28	11A	MODO	B	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	NOFL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	EAWP	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	COYE	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	COYE	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	EAME	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	RBWO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	RWBL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	RWBL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	RWBL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	SAVS	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	BARS	A	I	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	BLJA	B	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	AMGO	B	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	CEDW	B	S	1	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	BOBO	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	BOBO	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:44	10B	BOBO	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	BOBO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	RWBL	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	RWBL	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	RWBL	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	RWBL	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	RWBL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	RWBL	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	AMGO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	AMGO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	AMGO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	AMGO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	SOSP	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	BARS	A	I	1	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	BARS	A	I	1	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	BARS	A	I	1	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	KILL	B	C	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	BOBO	B	C	1	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	RBWO	B	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	8:51	10A	EAME	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	WBNH	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	COYE	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	COYE	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	EAME	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	RWBL	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	RWBL	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	RWBL	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	AMRO	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	SOSP	A	S	1	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	AMGO	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	AMGO	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	AMGO	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	AMGO	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	FISP	B	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	MODO	B	FO	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:10	5A	NOFL	B	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	AMRO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	AMRO	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	AMCR	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	YEWA	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	YEWA	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	GRCA	A	S	3	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	GCFL	A	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	COYE	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	SOSP	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	SOSP	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	TUVU	B	FO	3	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	CEDW	B	S	2	
7/1/2020	HK	68 - 77	0 - 2	2	9:24	5D	CEDW	B	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	WOTH	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	RWBL	A	C	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	RWBL	A	C	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	RWBL	A	C	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	RWBL	A	C	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	RWBL	A	C	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	SAVS	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	WIFL	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	MODO	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:42	1B	COYE	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	EAME	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	EAME	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	AMRO	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:42	1B	MODO	B	FO	3	
7/14/2020	HK	56	1 - 2	1	5:42	1B	MODO	B	FO	3	
7/14/2020	HK	56	1 - 2	1	5:42	1B	MODO	B	FO	3	
7/14/2020	HK	56	1 - 2	1	5:42	1B	AMGO	B	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	AMGO	B	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	AMGO	B	S	2	
7/14/2020	HK	56	1 - 2	1	5:42	1B	AMCR	B	S	3	
7/14/2020	HK	56	1 - 2	1	5:42	1B	BOBO	B	S	3	
7/14/2020	HK	56	1 - 2	1	5:42	1B	BOBO	B	S	3	
7/14/2020	HK	56	1 - 2	1	5:42	1B	BOBO	B	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	AMRO	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	AMRO	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	AMRO	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	RWBL	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/14/2020	HK	56	1 - 2	1	5:54	1A	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:54	1A	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:54	1A	WOTH	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	WOTH	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	AMGO	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	AMGO	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	AMGO	A	S	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	EAME	A	S	2	
7/14/2020	HK	56	1 - 2	1	5:54	1A	PIWO	B	D	3	
7/14/2020	HK	56	1 - 2	1	5:54	1A	AMCR	B	D	3	
7/14/2020	HK	56	1 - 2	1	6:06	1D	WIWR	A	C	1	
7/14/2020	HK	56	1 - 2	1	6:06	1D	WIWR	A	C	1	
7/14/2020	HK	56	1 - 2	1	6:06	1D	WBNU	A	C	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	WOTH	A	I	1	
7/14/2020	HK	56	1 - 2	1	6:06	1D	WOTH	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	WOTH	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	EATO	A	C	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	EATO	A	C	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	EATO	A	C	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	EAWP	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:06	1D	WAVI	B	S	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	BLJA	B	C	3	
7/14/2020	HK	56	1 - 2	1	6:06	1D	MODO	B	S	3	
7/14/2020	HK	56	1 - 2	1	6:06	1D	SOSP	B	S	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	HOWR	B	S	3	
7/14/2020	HK	56	1 - 2	1	6:06	1D	VEER	B	S	2	
7/14/2020	HK	56	1 - 2	1	6:06	1D	RWBL	B	C	3	
7/14/2020	HK	56	1 - 2	1	6:06	1D	EATO	B	I	3	
7/14/2020	HK	56	1 - 2	1	6:06	1D	GCFL	B	C	3	
7/14/2020	HK	56	1 - 2	1	6:18	Leaving 1D	BOBO	C	C	2	
7/14/2020	HK	56	1 - 2	1	6:18	Leaving 1D	BOBO	C	C	2	
7/14/2020	HK	56	1 - 2	1	6:18	Leaving 1D	BOBO	C	C	2	
7/14/2020	HK	56	1 - 2	1	6:18	Leaving 1D	BOBO	C	C	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	WIFL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	WIFL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	MODO	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	FISP	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	FISP	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	AMCR	A	C	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	AMCR	A	C	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	GRCA	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	RWBL	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/14/2020	HK	56	1 - 2	1	6:28	2A	RBWO	A	C	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	AMRO	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:28	2A	COYE	B	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	COYE	B	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	AMGO	B	S	2	
7/14/2020	HK	56	1 - 2	1	6:28	2A	SCTA	B	S	2	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:40	Arriving at 2B	EUST	C	I	1	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	AMGO	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	AMGO	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	AMGO	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	GRCA	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	GRCA	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	COYE	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	AMCR	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:42	2B	EATO	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	BARS	B	I	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	BARS	B	I	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	BARS	B	I	2	
7/14/2020	HK	56	1 - 2	1	6:42	2B	KILL	B	C	3	
7/14/2020	HK	56	1 - 2	1	6:55	1C	BARS	A	I	1	
7/14/2020	HK	56	1 - 2	1	6:55	1C	EAME	A	C	1	
7/14/2020	HK	56	1 - 2	1	6:55	1C	EAME	A	C	1	
7/14/2020	HK	56	1 - 2	1	6:55	1C	Unknown Woodpecker	A	D	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	COYE	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	COYE	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	SOSP	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	RWBL	A	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	MODO	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:55	1C	SOSP	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:55	1C	SOSP	A	S	3	
7/14/2020	HK	56	1 - 2	1	6:55	1C	AMCR	B	C	3	
7/14/2020	HK	56	1 - 2	1	6:55	1C	Unknown Woodpecker	B	D	3	
7/14/2020	HK	56	1 - 2	1	6:55	1C	CSWA	B	S	2	
7/14/2020	HK	56	1 - 2	1	6:55	1C	COYE	B	S	3	
7/14/2020	HK	56	1 - 2	1	7:07	Leaving 1	COHA	C	I	1	
7/14/2020	HK	57 - 61	2	1	7:21	4A	COYE	A	S	1	
7/14/2020	HK	57 - 61	2	1	7:21	4A	COYE	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:21	4A	COYE	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:21	4A	COYE	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:21	4A	RWBL	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:21	4A	RWBL	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:21	4A	RWBL	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:21	4A	SOSP	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:21	4A	SOSP	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:21	4A	FISP	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:21	4A	AMRO	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:21	4A	RBGR	B	S	2	
7/14/2020	HK	57 - 61	2	1	7:21	4A	RBGR	B	S	2	
7/14/2020	HK	57 - 61	2	1	7:21	4A	RBGR	B	S	2	
7/14/2020	HK	57 - 61	2	1	7:21	4A	BARS	B	I	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/14/2020	HK	57 - 61	2	1	7:30	4B	AMGO	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	AMGO	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	TRES	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	TRES	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	BARS	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	BARS	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	BARS	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	BARS	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	BARS	A	C	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	AMCR	A	C	3	
7/14/2020	HK	57 - 61	2	1	7:30	4B	COYE	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	COYE	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	COYE	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:30	4B	WIFL	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:30	4B	NOCA	B	S	3	
7/14/2020	HK	57 - 61	2	1	7:30	4B	SOSP	B	S	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	SOSP	B	S	2	
7/14/2020	HK	57 - 61	2	1	7:30	4B	SOSP	B	S	1	
7/14/2020	HK	57 - 61	2	1	7:30	4B	FISP	B	S	3	
7/14/2020	HK	57 - 61	2	1	7:30	4B	WOTH	B	S	3	
7/14/2020	HK	57 - 61	2	1	7:30	4B	EATO	B	C	3	
7/14/2020	HK	57 - 61	2	1	7:40	4C	OVEN	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:40	4C	OVEN	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:40	4C	REVI	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:40	4C	REVI	A	S	2	
7/14/2020	HK	57 - 61	2	1	7:40	4C	AMRO	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:40	4C	AMRO	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:40	4C	AMRO	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:40	4C	COYE	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:40	4C	HETH	A	S	1	
7/14/2020	HK	57 - 61	2	1	7:40	4C	AMCR	A	S	3	
7/14/2020	HK	57 - 61	2	1	7:40	4C	YEVI	B	S	2	
7/14/2020	HK	57 - 61	2	1	7:40	4C	WOTH	B	S	3	
7/14/2020	HK	57 - 61	2	1	8:12	Arriving at 13	EABL	C	I	1	
7/14/2020	HK	57 - 61	2	1	8:22	13B	GBHE	A	FO	3	
7/14/2020	HK	57 - 61	2	1	8:22	13B	WIFL	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	WIFL	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	GRCA	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RWBL	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RWBL	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RWBL	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RWBL	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RWBL	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RWBL	A	S	3	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RWBL	A	S	3	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RWBL	A	S	3	
7/14/2020	HK	57 - 61	2	1	8:22	13B	COYE	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	COYE	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	AMRO	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	AMRO	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:22	13B	MODO	A	S	3	
7/14/2020	HK	57 - 61	2	1	8:22	13B	SOSP	A	S	3	
7/14/2020	HK	57 - 61	2	1	8:22	13B	TRES	A	I	1	
7/14/2020	HK	57 - 61	2	1	8:22	13B	SOSP	B	C	1	
7/14/2020	HK	57 - 61	2	1	8:22	13B	SOSP	B	C	1	
7/14/2020	HK	57 - 61	2	1	8:22	13B	YEWA	B	S	3	
7/14/2020	HK	57 - 61	2	1	8:22	13B	RTHA	B	C	3	



Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/14/2020	HK	57 - 61	2	1	8:58	14A	AMRO	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	YEWA	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	BARS	A	C	1	
7/14/2020	HK	57 - 61	2	1	8:58	14A	BARS	A	C	1	
7/14/2020	HK	57 - 61	2	1	8:58	14A	BOBO	A	C	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	BOBO	A	C	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	WIFL	A	S	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	EAWP	B	S	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	EAWP	B	S	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	SOSP	B	S	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	SOSP	B	S	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	SOSP	B	S	3	
7/14/2020	HK	57 - 61	2	1	8:58	14A	CHSP	B	S	3	
7/14/2020	HK	57 - 61	2	1	8:58	14A	Unknown Woodpecker	B	D	2	
7/14/2020	HK	57 - 61	2	1	8:58	14A	MODO	B	S	3	
7/14/2020	HK	57 - 61	2	1	8:58	14A	BHCO	B	S	2	
7/14/2020	HK	57 - 61	2	1	9:09	14B	WAVI	A	S	2	
7/14/2020	HK	57 - 61	2	1	9:09	14B	WAVI	A	S	2	
7/14/2020	HK	57 - 61	2	1	9:09	14B	WIFL	A	S	2	
7/14/2020	HK	57 - 61	2	1	9:09	14B	EAWP	A	S	2	
7/14/2020	HK	57 - 61	2	1	9:09	14B	Unknown Woodpecker	A	D	3	
7/14/2020	HK	57 - 61	2	1	9:09	14B	AMRO	A	S	2	
7/14/2020	HK	57 - 61	2	1	9:09	14B	REVI	B	S	2	
7/14/2020	HK	57 - 61	2	1	9:09	14B	DOWO	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	MODO	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	COYE	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	SOSP	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	GRCA	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	GRCA	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	WIFL	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	AMCR	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	AMCR	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	SOSP	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	SOSP	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	COYE	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	AMRO	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	AMGO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	AMGO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	AMGO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	RWBL	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	RWBL	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	RWBL	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	FISP	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:36	7A	BOBO	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:44	Approaching 7B	TRES	C	FO	1	
7/8/2020	HK	67 - 73	1, 3	1	5:44	Approaching 7B	TRES	C	FO	1	
7/8/2020	HK	67 - 73	1, 3	1	5:44	Approaching 7B	TRES	C	FO	1	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	SOSP	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	SOSP	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	SOSP	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	SOSP	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	SOSP	A	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	RWBL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	GRCA	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	GRCA	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	AMCR	A	C	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	FISP	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	MODO	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	AMGO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	AMGO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	WIFL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	AMRO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	TRES	A	FO	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	TRES	A	FO	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	TRES	A	FO	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	TRES	A	FO	2	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	Unknown Woodpecker	B	D	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	COYE	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	5:48	7B	BWWA	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	RWBL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	RWBL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	RWBL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	RWBL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	RWBL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	TRES	A	C	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	TRES	A	C	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	TRES	A	C	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	TRES	A	C	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	TRES	A	C	1	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	SOSP	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	SOSP	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	RWBL	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	YEWA	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	GRCA	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	BRTH	A	I	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	EATO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	AMGO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	AMGO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	AMGO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	FISP	B	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	FISP	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	AMCR	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	WIFL	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	VEER	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	COYE	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:14	6C	AMRO	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:33	Leaving 6C	BOBO	C	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:33	Leaving 6C	BOBO	C	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:33	Leaving 6C	BOBO	C	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:33	Leaving 6C	BOBO	C	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	RTHA	A	I	2	Juvenile
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	RTHA	A	I	2	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	HOWR	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	AMCR	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	FISP	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	AMRO	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	AMGO	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	AMGO	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	AMGO	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	AMGO	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	BARS	A	FO	2	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	BARS	A	FO	2	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	BARS	A	FO	2	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	RWBL	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	RWBL	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	RWBL	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	RWBL	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	RWBL	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	SOSP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	BOBO	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	6:44	6B	KILL	B	C	2	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	AMCR	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	GCFL	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	BCCH	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	BCCH	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	GRCA	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	YRWA	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	Unknown Woodpecker	A	D	2	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	NOFL	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	AMRO	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	COYE	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	EAWP	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	CEDW	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:07	6A	CEDW	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:15	Leaving 6A	EATO	C	S	1	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	CORA	A	S	3	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	SOSP	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	SOSP	A	S	1	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	COYE	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	FISP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	FISP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	AMRO	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	EAWP	A	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	ALFL	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	AMGO	B	C	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	AMGO	B	C	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	AMGO	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	AMGO	B	S	2	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	FISP	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	AMCR	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	AMCR	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	GCFL	B	S	3	
7/8/2020	HK	67 - 73	1, 3	1	7:31	5A	GCFL	B	S	3	
7/8/2020	HK	73	0	2	7:45	5D	VEER	A	S	3	
7/8/2020	HK	73	0	2	7:45	5D	BCCH	A	S	2	
7/8/2020	HK	73	0	2	7:45	5D	CHSP	A	S	2	
7/8/2020	HK	73	0	2	7:45	5D	COYE	A	S	2	
7/8/2020	HK	73	0	2	7:45	5D	AMGO	A	FO	2	
7/8/2020	HK	73	0	2	7:45	5D	AMGO	A	FO	2	
7/8/2020	HK	73	0	2	7:45	5D	AMGO	A	S	3	
7/8/2020	HK	73	0	2	7:45	5D	AMGO	A	S	3	
7/8/2020	HK	73	0	2	7:45	5D	AMGO	A	S	3	
7/8/2020	HK	73	0	2	7:45	5D	AMGO	A	S	3	
7/8/2020	HK	73	0	2	7:45	5D	AMGO	A	S	3	
7/8/2020	HK	73	0	2	7:45	5D	NOFL	A	S	2	
7/8/2020	HK	73	0	2	7:45	5D	NOCA	A	S	3	
7/8/2020	HK	73	0	2	7:45	5D	SOSP	A	C	1	
7/8/2020	HK	73	0	2	7:45	5D	WOTH	B	S	3	
7/8/2020	HK	73	0	2	7:45	5D	WBNU	B	S	3	
7/8/2020	HK	73	0	2	7:45	5D	INBU	B	S	2	
7/8/2020	HK	73	0	2	7:45	5D	FISP	B	S	2	
7/8/2020	HK	73	0	2	8:04	5B	COYE	A	S	2	
7/8/2020	HK	73	0	2	8:04	5B	EAME	A	S	2	
7/8/2020	HK	73	0	2	8:04	5B	FISP	A	S	2	
7/8/2020	HK	73	0	2	8:04	5B	AMCR	A	C	3	
7/8/2020	HK	73	0	2	8:04	5B	SAVS	A	S	2	
7/8/2020	HK	73	0	2	8:04	5B	SAVS	A	S	2	
7/8/2020	HK	73	0	2	8:04	5B	CORA	A	C	2	
7/8/2020	HK	73	0	2	8:04	5B	GCFL	A	S	2	
7/8/2020	HK	73	0	2	8:04	5B	SAVS	A	S	3	
7/8/2020	HK	73	0	2	8:04	5B	NOFL	A	C	3	
7/8/2020	HK	73	0	2	8:04	5B	AMRO	A	S	2	
7/8/2020	HK	73	0	2	8:04	5B	AMRO	A	S	2	
7/8/2020	HK	73	0	2	8:04	5B	RWBL	B	S	3	
7/8/2020	HK	73	0	2	8:04	5B	RWBL	B	S	3	
7/8/2020	HK	73	0	2	8:04	5B	RWBL	B	S	3	
7/8/2020	HK	73	0	2	8:04	5B	RWBL	B	S	3	
7/8/2020	HK	73	0	2	8:04	5B	GRCA	B	S	2	
7/8/2020	HK	73	0	2	8:04	5B	RWBL	B	FO	2	
7/8/2020	HK	73	0	2	8:04	5B	AMGO	B	S	2	
7/8/2020	HK	73	0	2	8:12	5C	AMRO	A	S	3	
7/8/2020	HK	73	0	2	8:12	5C	AMRO	A	S	3	
7/8/2020	HK	73	0	2	8:12	5C	COYE	A	S	3	
7/8/2020	HK	73	0	2	8:12	5C	COYE	A	S	3	
7/8/2020	HK	73	0	2	8:12	5C	SOSP	A	S	3	
7/8/2020	HK	73	0	2	8:12	5C	RWBL	A	S	2	
7/8/2020	HK	73	0	2	8:12	5C	RWBL	A	S	2	
7/8/2020	HK	73	0	2	8:12	5C	RWBL	A	S	2	
7/8/2020	HK	73	0	2	8:12	5C	RWBL	A	S	2	
7/8/2020	HK	73	0	2	8:12	5C	AMGO	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/8/2020	HK	73	0	2	8:12	5C	AMGO	A	S	2	
7/8/2020	HK	73	0	2	8:12	5C	BLJA	B	C	3	
7/8/2020	HK	73	0	2	8:39	Approaching 3A	WITU	C	I	2	
7/8/2020	HK	73	0	2	8:44	3A	REVI	A	S	2	
7/8/2020	HK	73	0	2	8:44	3A	WBNU	A	S	3	
7/8/2020	HK	73	0	2	8:44	3A	RWBL	A	S	2	
7/8/2020	HK	73	0	2	8:44	3A	RWBL	A	S	2	
7/8/2020	HK	73	0	2	8:44	3A	FISP	A	S	3	
7/8/2020	HK	73	0	2	8:44	3A	SOSP	B	S	3	
7/8/2020	HK	73	0	2	8:44	3A	AMGO	B	C	2	
7/8/2020	HK	73	0	2	8:57	3B	AMRO	A	S	2	
7/8/2020	HK	73	0	2	8:57	3B	AMCR	A	C	3	
7/8/2020	HK	73	0	2	8:57	3B	AMGO	A	FO	1	
7/8/2020	HK	73	0	2	8:57	3B	AMGO	A	FO	1	
7/8/2020	HK	73	0	2	8:57	3B	AMGO	A	FO	1	
7/8/2020	HK	73	0	2	8:57	3B	AMGO	A	FO	1	
7/8/2020	HK	73	0	2	8:57	3B	ALFL	A	S	2	
7/8/2020	HK	73	0	2	8:57	3B	COYE	A	S	2	
7/8/2020	HK	73	0	2	8:57	3B	BARS	B	FO	1	
7/8/2020	HK	73	0	2	8:57	3B	NOCA	B	S	3	
7/8/2020	HK	73	0	2	8:57	3B	EAME	B	S	3	
7/8/2020	HK	73	0	2	9:10	Leaving 3B	ALFL	C	I	1	
7/8/2020	HK	73	0	2	9:10	Leaving 3B	ALFL	C	I	1	
7/8/2020	HK	73	0	2	9:10	Leaving 3B	ALFL	C	I	1	
7/8/2020	TC	68 - 71	1	1	5:49	Arriving at Transect 8	SAVS	C	S	1	
7/8/2020	TC	68 - 71	1	1	5:49	Arriving at Transect 8	BOBO	C	S	2	
7/8/2020	TC	68 - 71	1	1	5:49	Arriving at Transect 8	BOBO	C	S	2	
7/8/2020	TC	68 - 71	1	1	5:49	Arriving at Transect 8	BOBO	C	S	2	
7/8/2020	TC	68 - 71	1	1	5:49	Arriving at Transect 8	EAME	C	S	3	
7/8/2020	TC	68 - 71	1	1	5:59	Arriving at 8C	WITU	C	I	1	
7/8/2020	TC	68 - 71	1	1	6:01	8C	SOSP	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:01	8C	REVI	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	HOWR	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:01	8C	COYE	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	COYE	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	EAWP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	EAWP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	WOTH	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:01	8C	RTHA	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	MODO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	AMRO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	AMCR	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	NOFL	B	C	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	SOSP	B	S	1	
7/8/2020	TC	68 - 71	1	1	6:01	8C	BLJA	B	C	3	
7/8/2020	TC	68 - 71	1	1	6:01	8C	GCFL	B	C	1	
7/8/2020	TC	68 - 71	1	1	6:13	8B	SOSP	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:13	8B	SOSP	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:13	8B	FISP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	FISP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	RTHA	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	AMRO	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:13	8B	SOSP	A	S	1	
7/8/2020	TC	68 - 71	1	1	6:13	8B	AMCR	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	AMRO	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	WBNU	A	C	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/8/2020	TC	68 - 71	1	1	6:13	8B	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	COYE	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:13	8B	BLJA	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	NOCA	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	EAWP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:13	8B	GRCA	B	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	AMRO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	AMRO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	FISP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	FISP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	SOSP	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:22	8A	AMCR	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	AMCR	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	RTHA	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	GRCA	A	S	1	
7/8/2020	TC	68 - 71	1	1	6:22	8A	RWBL	A	C	1	
7/8/2020	TC	68 - 71	1	1	6:22	8A	NOCA	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	NOCA	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	NOCA	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	AMGO	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:22	8A	AMGO	A	S	2	
7/8/2020	TC	68 - 71	1	1	6:22	8A	COYE	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	CHSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:22	8A	KILL	B	C	1	
7/8/2020	TC	68 - 71	1	1	6:22	8A	COGR	B	FO	1	
7/8/2020	TC	68 - 71	1	1	6:22	8A	COGR	B	FO	1	
7/8/2020	TC	68 - 71	1	1	6:22	8A	COGR	B	FO	1	
7/8/2020	TC	68 - 71	1	1	6:22	8A	GCFL	B	C	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	AMCR	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	AMGO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	AMGO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	CHSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	TRES	A	I	2	
7/8/2020	TC	68 - 71	1	1	6:49	9C	TRES	A	I	2	
7/8/2020	TC	68 - 71	1	1	6:49	9C	GRCA	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	AMRO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	AMRO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	AMRO	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	NOCA	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	COYE	A	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	GCFL	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	GCFL	A	C	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	EATO	B	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	EATO	B	S	3	
7/8/2020	TC	68 - 71	1	1	6:49	9C	EAME	B	S	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	COYE	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	FISP	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	FISP	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/8/2020	TC	68 - 71	1	1	7:04	9B	AMRO	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	YEWA	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	WIFL	A	S	1	
7/8/2020	TC	68 - 71	1	1	7:04	9B	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	SAVS	A	S	2	
7/8/2020	TC	68 - 71	1	1	7:04	9B	SOSP	A	S	2	
7/8/2020	TC	68 - 71	1	1	7:04	9B	AMCR	A	C	3	
7/8/2020	TC	68 - 71	1	1	7:04	9B	EAME	A	S	1	
7/8/2020	TC	68 - 71	1	1	7:04	9B	NOCA	B	S	3	
7/8/2020	TC	68 - 71	1	1	7:12	9A to 9B	YBCU	C	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	RWBL	A	C	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	COYE	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	COYE	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	SOSP	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	BARS	A	I	2	
7/8/2020	TC	68 - 71	1	1	7:18	9A	BARS	A	I	2	
7/8/2020	TC	68 - 71	1	1	7:18	9A	BARS	A	I	2	
7/8/2020	TC	68 - 71	1	1	7:18	9A	AMGO	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	AMGO	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	AMGO	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	AMGO	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	NOCA	A	S	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	SAVS	A	S	2	
7/8/2020	TC	68 - 71	1	1	7:18	9A	SAVS	A	S	2	
7/8/2020	TC	68 - 71	1	1	7:18	9A	AMRO	A	C	3	
7/8/2020	TC	68 - 71	1	1	7:18	9A	CEDW	B	S	2	
7/8/2020	TC	68 - 71	1	1	7:18	9A	CHSP	B	S	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	C	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	C	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	C	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	C	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	C	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	C	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	SAVS	A	S	1	
7/8/2020	TC	71 - 76	1	1	7:41	10A	AMRO	A	S	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	WAVI	A	S	3	
7/8/2020	TC	71 - 76	1	1	7:41	10A	BARS	A	I	1	
7/8/2020	TC	71 - 76	1	1	7:41	10A	BARS	A	I	1	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	GRCA	A	S	2	
7/8/2020	TC	71 - 76	1	1	7:41	10A	SOSP	A	I	1	
7/8/2020	TC	71 - 76	1	1	7:48	10B	COYE	A	S	1	
7/8/2020	TC	71 - 76	1	1	7:48	10B	WIFL	A	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/8/2020	TC	71 - 76	1	1	7:48	10B	AMGO	A	S	1	
7/8/2020	TC	71 - 76	1	1	7:48	10B	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	RWBL	A	I	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	AMRO	A	S	3	
7/8/2020	TC	71 - 76	1	1	7:48	10B	AMRO	A	S	3	
7/8/2020	TC	71 - 76	1	1	7:48	10B	EAME	A	S	3	
7/8/2020	TC	71 - 76	1	1	7:48	10B	GRCA	A	S	3	
7/8/2020	TC	71 - 76	1	1	7:48	10B	SOSP	A	S	2	
7/8/2020	TC	71 - 76	1	1	7:48	10B	SOSP	A	I	1	
7/8/2020	TC	71 - 76	1	1	7:48	10B	HOWR	A	S	3	
7/8/2020	TC	71 - 76	1	1	7:48	10B	Unknown Woodpecker	B	D	3	
7/8/2020	TC	71 - 76	1	1	8:03	11A	RWBL	A	C	1	
7/8/2020	TC	71 - 76	1	1	8:03	11A	RWBL	A	C	1	
7/8/2020	TC	71 - 76	1	1	8:03	11A	SOSP	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:03	11A	SAVS	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:03	11A	BOBO	A	I	2	
7/8/2020	TC	71 - 76	1	1	8:03	11A	BOBO	A	I	2	
7/8/2020	TC	71 - 76	1	1	8:03	11A	BOBO	A	I	2	
7/8/2020	TC	71 - 76	1	1	8:03	11A	AMGO	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:03	11A	AMGO	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:03	11A	COYE	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:03	11A	SAVS	A	S	1	
7/8/2020	TC	71 - 76	1	1	8:03	11A	TUVU	B	FO	3	
7/8/2020	TC	71 - 76	1	1	8:23	12A	AMRO	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:23	12A	REVI	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:23	12A	EAME	A	S	2	
7/8/2020	TC	71 - 76	1	1	8:23	12A	EAME	A	S	2	
7/8/2020	TC	71 - 76	1	1	8:23	12A	AMGO	A	S	1	
7/8/2020	TC	71 - 76	1	1	8:23	12A	SAVS	A	S	2	
7/8/2020	TC	71 - 76	1	1	8:23	12A	RWBL	A	C	2	
7/8/2020	TC	71 - 76	1	1	8:23	12A	RWBL	A	C	2	
7/8/2020	TC	71 - 76	1	1	8:23	12A	EAME	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:23	12A	COYE	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:23	12A	BLJA	B	C	3	
7/8/2020	TC	71 - 76	1	1	8:23	12A	AMCR	B	C	3	
7/8/2020	TC	71 - 76	1	1	8:23	12A	BARS	B	I	3	
7/8/2020	TC	71 - 76	1	1	8:23	12A	SOSP	B	S	3	
7/8/2020	TC	71 - 76	1	1	8:39	12B	OVEN	A	S	1	
7/8/2020	TC	71 - 76	1	1	8:39	12B	OVEN	A	S	2	
7/8/2020	TC	71 - 76	1	1	8:39	12B	REVI	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:39	12B	REVI	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:39	12B	AMRO	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:39	12B	EAWP	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:39	12B	Unknown Woodpecker	B	D	3	
7/8/2020	TC	71 - 76	1	1	8:46	12B to 12C	BTGW	C	S	3	
7/8/2020	TC	71 - 76	1	1	8:55	12C	EAWP	A	S	1	
7/8/2020	TC	71 - 76	1	1	8:55	12C	SOSP	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:55	12C	SOSP	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/8/2020	TC	71 - 76	1	1	8:55	12C	AMGO	A	S	2	
7/8/2020	TC	71 - 76	1	1	8:55	12C	RWBL	A	C	3	
7/8/2020	TC	71 - 76	1	1	8:55	12C	RWBL	A	C	3	
7/8/2020	TC	71 - 76	1	1	8:55	12C	BLJA	A	C	2	
7/8/2020	TC	71 - 76	1	1	8:55	12C	BOBO	A	S	2	
7/8/2020	TC	71 - 76	1	1	8:55	12C	BOBO	A	S	2	
7/8/2020	TC	71 - 76	1	1	8:55	12C	OVEN	A	S	3	
7/8/2020	TC	71 - 76	1	1	8:55	12C	BLJA	B	C	1	
7/21/2020	HK	61 - 68	1	1	5:49	6C	FISP	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	FISP	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	FISP	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	AMRO	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	AMCR	A	C	3	
7/21/2020	HK	61 - 68	1	1	5:49	6C	AMCR	A	C	3	
7/21/2020	HK	61 - 68	1	1	5:49	6C	WIFL	A	S	3	
7/21/2020	HK	61 - 68	1	1	5:49	6C	WIFL	A	S	3	
7/21/2020	HK	61 - 68	1	1	5:49	6C	WIFL	A	S	3	
7/21/2020	HK	61 - 68	1	1	5:49	6C	YEWA	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	YEWA	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	COYE	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	COYE	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	RWBL	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	RWBL	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	RWBL	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	RWBL	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	RWBL	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	RWBL	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	RWBL	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	EATO	A	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	TRES	A	C	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	TRES	A	C	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	TRES	A	C	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	BHCO	B	C	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	AMGO	B	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	AMGO	B	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	AMGO	B	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	ALFL	B	S	2	
7/21/2020	HK	61 - 68	1	1	5:49	6C	VIRA	B	C	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	FISP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	FISP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	FISP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMRO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMRO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMRO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	GRCA	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	GRCA	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:06	6B	HOWR	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:06	6B	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMCR	A	C	3	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMCR	A	C	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMCR	A	C	3	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:06	6B	AMGO	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:06	6B	WOTH	B	S	3	
7/21/2020	HK	61 - 68	1	1	6:06	6B	RBWO	B	C	3	
7/21/2020	HK	61 - 68	1	1	6:16	6A	AMCR	A	C	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	AMCR	A	C	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	AMCR	A	C	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	AMCR	A	C	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	HOWR	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	HOWR	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	DEJU	A	C	1	
7/21/2020	HK	61 - 68	1	1	6:16	6A	REVI	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	AMRO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	AMRO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	EATO	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:16	6A	NOFL	A	C	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	YEWA	B	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	COYE	B	S	2	
7/21/2020	HK	61 - 68	1	1	6:16	6A	BLJA	B	C	3	
7/21/2020	HK	61 - 68	1	1	6:16	6A	CEDW	B	C	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	AMCR	A	C	3	
7/21/2020	HK	61 - 68	1	1	6:34	5A	AMCR	A	C	3	
7/21/2020	HK	61 - 68	1	1	6:34	5A	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	SOSP	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:34	5A	SOSP	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:34	5A	Unknown Woodpecker	A	D	3	
7/21/2020	HK	61 - 68	1	1	6:34	5A	INBU	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	INBU	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	FISP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	FISP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	COYE	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	COYE	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:34	5A	GCFL	A	C	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	AMRO	B	C	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	COYE	B	S	1	
7/21/2020	HK	61 - 68	1	1	6:34	5A	EATO	B	S	2	
7/21/2020	HK	61 - 68	1	1	6:34	5A	EAPH	B	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	WBNU	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	BCCH	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	BCCH	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	AMRO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	EAPH	A	S	3	
7/21/2020	HK	61 - 68	1	1	6:46	5D	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	AMGO	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	SOSP	A	S	2	
7/21/2020	HK	61 - 68	1	1	6:46	5D	SOSP	A	S	2	



Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	AMRO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	GRCA	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	SAVS	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	BLJA	A	C	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	AMCR	A	C	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	AMCR	A	C	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:46	4A	NOFL	B	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	AMRO	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	COYE	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	COYE	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	COYE	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	TRES	A	I	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	TRES	A	I	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	TRES	A	I	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	TRES	A	I	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	TRES	A	I	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	AMCR	A	C	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	AMGO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	AMGO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	AMGO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	AMGO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	NOCA	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	RWBL	B	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	RWBL	B	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	RWBL	B	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	RWBL	B	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	BOBO	B	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	BOBO	B	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	EATO	B	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	EATO	B	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	YEWA	B	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	7:58	4B	WIFL	B	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	WIFL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	NOCA	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	TRES	A	I	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	BARS	A	I	1	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	EAME	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	AMGO	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	AMGO	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	AMGO	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	AMGO	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	AMGO	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	AMGO	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	AMGO	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	AMGO	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	SOSP	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	SOSP	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:32	7A	CEDW	B	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	SOSP	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMRO	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMRO	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMRO	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMRO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMRO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	WIFL	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	GCFL	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	FISP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	FISP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	FISP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	COYE	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	TRES	A	I	1	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	FISP	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMGO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMGO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMGO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	8:46	7B	AMGO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:11	2B	EUST	A	C	2	



Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	SOSP	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	SOSP	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	SOSP	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	SOSP	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RWBL	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RWBL	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RWBL	A	S	1	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RWBL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	BOBO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	MODO	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	WIFL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	WIFL	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	GRCA	A	S	3	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	COYE	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	COYE	A	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	RTHA	B	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	AMRO	B	C	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	BOBO	B	C	1	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	BOBO	B	C	1	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	AMGO	B	S	2	
7/21/2020	HK	68 - 75	1 - 2	1	9:24	2A	AMGO	B	S	2	
7/1/2020	TC	62	0	1	5:42	1A	WITU	C	I	1	
7/1/2020	TC	62	0	1	5:49	1A	BOBO	A	S	1	
7/1/2020	TC	62	0	1	5:49	1A	BOBO	A	S	1	
7/1/2020	TC	62	0	1	5:49	1A	BOBO	A	S	1	
7/1/2020	TC	62	0	1	5:49	1A	EAME	A	S	2	
7/1/2020	TC	62	0	1	5:49	1A	RWBL	A	C	3	
7/1/2020	TC	62	0	1	5:49	1A	RWBL	A	C	3	
7/1/2020	TC	62	0	1	5:49	1A	RWBL	A	C	3	
7/1/2020	TC	62	0	1	5:49	1A	BOBO	A	S	2	
7/1/2020	TC	62	0	1	5:49	1A	BOBO	A	S	2	
7/1/2020	TC	62	0	1	5:49	1A	BOBO	A	S	2	
7/1/2020	TC	62	0	1	5:49	1A	AMCR	A	C	3	
7/1/2020	TC	62	0	1	5:49	1A	COYE	A	S	2	
7/1/2020	TC	62	0	1	5:49	1A	HOWR	A	S	3	
7/1/2020	TC	62	0	1	5:49	1A	HOWR	A	S	3	
7/1/2020	TC	62	0	1	5:49	1A	AMRO	A	S	3	
7/1/2020	TC	62	0	1	5:49	1A	AMRO	A	S	3	
7/1/2020	TC	62	0	1	5:49	1A	WIFL	A	C	3	
7/1/2020	TC	62	0	1	5:49	1A	RWBL	B	C	2	
7/1/2020	TC	62	0	1	5:49	1A	RWBL	B	C	2	
7/1/2020	TC	62	0	1	5:49	1A	MODO	B	S	3	
7/1/2020	TC	62	0	1	5:49	1A	BAOR	B	S	3	
7/1/2020	TC	62	0	1	5:49	1A	WOTH	B	S	3	
7/1/2020	TC	62	0	1	5:59	1D	AMRO	A	S	2	
7/1/2020	TC	62	0	1	5:59	1D	EAWP	A	S	2	
7/1/2020	TC	62	0	1	5:59	1D	RTHA	A	C	1	
7/1/2020	TC	62	0	1	5:59	1D	COYE	A	S	2	
7/1/2020	TC	62	0	1	5:59	1D	WBNH	A	S	2	
7/1/2020	TC	62	0	1	5:59	1D	MODO	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/1/2020	TC	62	0	1	5:59	1D	AMRO	A	C	3	
7/1/2020	TC	62	0	1	5:59	1D	WOTH	A	S	3	
7/1/2020	TC	62	0	1	5:59	1D	WOTH	A	S	3	
7/1/2020	TC	62	0	1	5:59	1D	RWBL	A	C	3	
7/1/2020	TC	62	0	1	5:59	1D	KILL	A	C	3	
7/1/2020	TC	62	0	1	5:59	1D	GRCA	A	S	1	
7/1/2020	TC	62	0	1	5:59	1D	SOSP	A	S	2	
7/1/2020	TC	62	0	1	5:59	1D	SOSP	A	S	2	
7/1/2020	TC	62	0	1	5:59	1D	COYE	B	S	3	
7/1/2020	TC	62	0	1	5:59	1D	BLJA	B	C	3	
7/1/2020	TC	62	0	1	5:59	1D	REVI	B	S	2	
7/1/2020	TC	62	0	1	5:59	1D	AMCR	B	C	3	
7/1/2020	TC	62	0	1	5:59	1D	NOFL	B	C	1	
7/1/2020	TC	62	0	1	5:59	1D	GRCA	B	S	1	
7/1/2020	TC	62	0	1	6:17	1B	COYE	A	S	1	
7/1/2020	TC	62	0	1	6:17	1B	WOTH	A	S	3	
7/1/2020	TC	62	0	1	6:17	1B	WOTH	A	S	3	
7/1/2020	TC	62	0	1	6:17	1B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:17	1B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:17	1B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:17	1B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:17	1B	SOSP	A	S	2	
7/1/2020	TC	62	0	1	6:17	1B	SOSP	A	S	2	
7/1/2020	TC	62	0	1	6:17	1B	YEWA	A	S	2	
7/1/2020	TC	62	0	1	6:17	1B	GRCA	A	S	3	
7/1/2020	TC	62	0	1	6:17	1B	COYE	A	S	3	
7/1/2020	TC	62	0	1	6:17	1B	AMRO	A	S	3	
7/1/2020	TC	62	0	1	6:17	1B	MODO	A	S	3	
7/1/2020	TC	62	0	1	6:17	1B	AMCR	A	C	3	
7/1/2020	TC	62	0	1	6:17	1B	NOFL	B	C	3	
7/1/2020	TC	62	0	1	6:17	1B	HOWR	B	S	3	
7/1/2020	TC	62	0	1	6:17	1B	AMGO	B	S	2	
7/1/2020	TC	62	0	1	6:17	1B	CEDW	B	S	2	
7/1/2020	TC	62	0	1	6:17	1B	EATO	B	S	3	
7/1/2020	TC	62	0	1	6:31	1C	AMRO	A	S	3	
7/1/2020	TC	62	0	1	6:31	1C	COYE	A	S	3	
7/1/2020	TC	62	0	1	6:31	1C	COYE	A	S	3	
7/1/2020	TC	62	0	1	6:31	1C	COYE	A	S	3	
7/1/2020	TC	62	0	1	6:31	1C	SOSP	A	S	2	
7/1/2020	TC	62	0	1	6:31	1C	SOSP	A	S	3	
7/1/2020	TC	62	0	1	6:31	1C	RWBL	A	FO	2	
7/1/2020	TC	62	0	1	6:31	1C	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:31	1C	AMRO	A	FO	2	
7/1/2020	TC	62	0	1	6:31	1C	AMGO	A	S	2	
7/1/2020	TC	62	0	1	6:31	1C	RBWO	A	C	3	
7/1/2020	TC	62	0	1	6:31	1C	HOWR	A	S	3	
7/1/2020	TC	62	0	1	6:31	1C	CEDW	A	S	2	
7/1/2020	TC	62	0	1	6:31	1C	SOSP	A	I	1	
7/1/2020	TC	62	0	1	6:31	1C	NOFL	B	C	3	
7/1/2020	TC	62	0	1	6:31	1C	NOFL	B	C	3	
7/1/2020	TC	62	0	1	6:45	2B	COYE	A	S	1	
7/1/2020	TC	62	0	1	6:45	2B	COYE	A	S	1	
7/1/2020	TC	62	0	1	6:45	2B	AMRO	A	S	1	
7/1/2020	TC	62	0	1	6:45	2B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:45	2B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:45	2B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:45	2B	RWBL	A	C	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/1/2020	TC	62	0	1	6:45	2B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:45	2B	RWBL	A	C	3	
7/1/2020	TC	62	0	1	6:45	2B	MODO	A	S	3	
7/1/2020	TC	62	0	1	6:45	2B	SOSP	A	S	3	
7/1/2020	TC	62	0	1	6:45	2B	AMCR	A	C	3	
7/1/2020	TC	62	0	1	6:45	2B	NOCA	B	S	3	
7/1/2020	TC	62	0	1	6:45	2B	COYE	B	S	3	
7/1/2020	TC	62	0	1	6:45	2B	SOSP	B	S	2	
7/1/2020	TC	62	0	1	6:45	2B	SOSP	B	S	2	
7/1/2020	TC	62	0	1	6:45	2B	SOSP	B	S	1	
7/1/2020	TC	62	0	1	6:45	2B	WIFL	B	S	2	
7/1/2020	TC	62	0	1	6:54	2A- 2B	VEER	C	S	1	
7/1/2020	TC	62	0	1	7:00	2A	KILL	A	C	2	
7/1/2020	TC	62	0	1	7:00	2A	SOSP	A	S	1	
7/1/2020	TC	62	0	1	7:00	2A	RWBL	A	C	2	
7/1/2020	TC	62	0	1	7:00	2A	RWBL	A	C	2	
7/1/2020	TC	62	0	1	7:00	2A	AMRO	A	S	2	
7/1/2020	TC	62	0	1	7:00	2A	MODO	A	S	3	
7/1/2020	TC	62	0	1	7:00	2A	RWBL	A	C	3	
7/1/2020	TC	62	0	1	7:00	2A	RWBL	A	C	3	
7/1/2020	TC	62	0	1	7:00	2A	RWBL	A	C	3	
7/1/2020	TC	62	0	1	7:00	2A	BARS	A	FO	1	
7/1/2020	TC	62	0	1	7:00	2A	CEDW	A	S	2	
7/1/2020	TC	62	0	1	7:00	2A	CEDW	A	S	2	
7/1/2020	TC	62	0	1	7:00	2A	COYE	B	S	2	
7/1/2020	TC	65	0	1	7:22	3A	EAWP	A	S	3	
7/1/2020	TC	65	0	1	7:22	3A	REVI	A	S	2	
7/1/2020	TC	65	0	1	7:22	3A	REVI	A	S	2	
7/1/2020	TC	65	0	1	7:22	3A	RWBL	A	C	3	
7/1/2020	TC	65	0	1	7:22	3A	AMCR	A	C	3	
7/1/2020	TC	65	0	1	7:22	3A	COYE	A	C	3	
7/1/2020	TC	65	0	1	7:22	3A	FISP	A	S	3	
7/1/2020	TC	65	0	1	7:22	3A	BOBO	A	S	3	
7/1/2020	TC	65	0	1	7:22	3A	SAVS	A	S	3	
7/1/2020	TC	65	0	1	7:22	3A	AMRO	A	C	3	
7/1/2020	TC	65	0	1	7:29	3A to 3B	BWWA	C	S	2	
7/1/2020	TC	65	0	1	7:39	3B	FISP	A	S	3	
7/1/2020	TC	65	0	1	7:39	3B	BOBO	A	S	1	
7/1/2020	TC	65	0	1	7:39	3B	BOBO	A	S	1	
7/1/2020	TC	65	0	1	7:39	3B	BOBO	A	S	1	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	1	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	1	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	1	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	RWBL	A	S	2	
7/1/2020	TC	65	0	1	7:39	3B	AMCR	A	C	3	
7/1/2020	TC	65	0	1	7:39	3B	AMCR	A	C	3	
7/1/2020	TC	65	0	1	7:39	3B	AMCR	A	C	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/1/2020	TC	65	0	1	7:39	3B	AMCR	A	C	3	
7/1/2020	TC	65	0	1	8:14	4A	COYE	A	S	3	
7/1/2020	TC	65	0	1	8:14	4A	SAVS	A	S	3	
7/1/2020	TC	65	0	1	8:14	4A	SOSP	A	S	1	
7/1/2020	TC	65	0	1	8:14	4A	SOSP	A	S	1	
7/1/2020	TC	65	0	1	8:14	4A	COYE	A	S	2	
7/1/2020	TC	65	0	1	8:14	4A	COYE	A	S	2	
7/1/2020	TC	65	0	1	8:14	4A	BARS	A	I	1	
7/1/2020	TC	65	0	1	8:14	4A	BOBO	A	S	2	
7/1/2020	TC	65	0	1	8:14	4A	WIFL	A	S	3	
7/1/2020	TC	65	0	1	8:14	4A	FISP	A	S	3	
7/1/2020	TC	65	0	1	8:14	4A	SOSP	A	S	3	
7/1/2020	TC	65	0	1	8:14	4A	AMRO	A	S	3	
7/1/2020	TC	65	0	1	8:14	4A	AMRO	A	S	3	
7/1/2020	TC	65	0	1	8:14	4A	SOSP	A	S	2	
7/1/2020	TC	65	0	1	8:14	4A	SOSP	A	S	2	
7/1/2020	TC	65	0	1	8:14	4A	COYE	B	S	1	
7/1/2020	TC	65	0	1	8:14	4A	FISP	B	S	1	
7/1/2020	TC	65	0	1	8:23	4B	YEWA	A	S	2	
7/1/2020	TC	65	0	1	8:23	4B	COYE	A	S	1	
7/1/2020	TC	65	0	1	8:23	4B	BOBO	A	S	2	
7/1/2020	TC	65	0	1	8:23	4B	SOSP	A	S	1	
7/1/2020	TC	65	0	1	8:23	4B	REVI	A	S	3	
7/1/2020	TC	65	0	1	8:23	4B	SOSP	A	S	3	
7/1/2020	TC	65	0	1	8:23	4B	SOSP	A	S	3	
7/1/2020	TC	65	0	1	8:23	4B	OVEN	A	S	3	
7/1/2020	TC	65	0	1	8:23	4B	COYE	A	S	2	
7/1/2020	TC	65	0	1	8:23	4B	AMGO	A	S	2	
7/1/2020	TC	65	0	1	8:23	4B	FISP	A	S	3	
7/1/2020	TC	65	0	1	8:23	4B	MODO	A	S	3	
7/1/2020	TC	65	0	1	8:23	4B	AMCR	B	C	3	
7/1/2020	TC	65	0	1	8:23	4B	AMRO	B	C	3	
7/1/2020	TC	65	0	1	8:23	4B	FISP	B	S	2	
7/1/2020	TC	65	0	1	8:36	4C	REVI	A	S	2	
7/1/2020	TC	65	0	1	8:36	4C	REVI	A	S	2	
7/1/2020	TC	65	0	1	8:36	4C	HOWA	A	S	2	
7/1/2020	TC	65	0	1	8:36	4C	HOWA	A	S	2	
7/1/2020	TC	65	0	1	8:36	4C	NOFL	A	C	2	
7/1/2020	TC	65	0	1	8:36	4C	BRCR	A	S	2	
7/1/2020	TC	65	0	1	8:36	4C	REVI	A	S	3	
7/1/2020	TC	65	0	1	8:36	4C	WOTH	A	S	3	
7/1/2020	TC	65	0	1	8:36	4C	OVEN	B	S	2	
7/1/2020	TC	65	0	1	8:36	4C	OVEN	B	S	2	
7/1/2020	TC	65	0	1	8:36	4C	HETH	B	S	2	
7/1/2020	TC	65	0	1	8:36	4C	AMCR	B	C	3	
7/1/2020	TC	65	0	1	9:07	Arriving at 5B	RTHA	C	I	3	
7/1/2020	TC	65	0	1	9:11	5B	AMRO	A	C	3	
7/1/2020	TC	65	0	1	9:11	5B	COYE	A	S	3	
7/1/2020	TC	65	0	1	9:11	5B	COYE	A	S	3	
7/1/2020	TC	65	0	1	9:11	5B	EATO	A	S	3	
7/1/2020	TC	65	0	1	9:11	5B	RTHA	A	C	3	
7/1/2020	TC	65	0	1	9:11	5B	FISP	A	S	3	
7/1/2020	TC	65	0	1	9:11	5B	RWBL	A	C	3	
7/1/2020	TC	65	0	1	9:11	5B	RWBL	A	C	3	
7/1/2020	TC	65	0	1	9:11	5B	RWBL	A	C	3	
7/1/2020	TC	65	0	1	9:11	5B	SOSP	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/1/2020	TC	65	0	1	9:11	5B	AMGO	A	S	3	
7/1/2020	TC	65	0	1	9:11	5B	AMGO	A	S	3	
7/1/2020	TC	65	0	1	9:11	5B	AMGO	A	S	3	
7/1/2020	TC	65	0	1	9:11	5B	AMGO	A	S	3	
7/1/2020	TC	65	0	1	9:11	5B	BARS	A	I	2	
7/1/2020	TC	65	0	1	9:11	5B	GRCA	A	S	3	
7/1/2020	TC	65	0	1	9:21	5C	RWBL	A	S	1	
7/1/2020	TC	65	0	1	9:21	5C	RWBL	A	S	1	
7/1/2020	TC	65	0	1	9:21	5C	COYE	A	S	2	
7/1/2020	TC	65	0	1	9:21	5C	COYE	A	S	2	
7/1/2020	TC	65	0	1	9:21	5C	FISP	A	S	3	
7/1/2020	TC	65	0	1	9:21	5C	AMRO	A	S	3	
7/1/2020	TC	65	0	1	9:21	5C	EAWP	A	S	3	
7/1/2020	TC	65	0	1	9:21	5C	TUVU	A	FO	3	
7/1/2020	TC	65	0	1	9:21	5C	TUVU	A	FO	3	
7/1/2020	TC	65	0	1	9:21	5C	TUVU	A	FO	3	
7/1/2020	TC	65	0	1	9:21	5C	TUVU	A	FO	3	
7/1/2020	TC	65	0	1	9:21	5C	REVI	B	S	3	
7/24/2020	HK	65 - 68	2	2	6:11	8C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	EAWP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	COYE	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	COYE	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	VEER	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:11	8C	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:11	8C	RWBL	A	C	1	
7/24/2020	HK	65 - 68	2	2	6:11	8C	AMRO	B	C	3	
7/24/2020	HK	65 - 68	2	2	6:11	8C	CAGO	B	C	3	
7/24/2020	HK	65 - 68	2	2	6:11	8C	CAGO	B	C	3	
7/24/2020	HK	65 - 68	2	2	6:11	8C	CAGO	B	C	3	
7/24/2020	HK	65 - 68	2	2	6:11	8C	AMGO	B	S	3	
7/24/2020	HK	65 - 68	2	2	6:11	8C	AMGO	B	S	3	
7/24/2020	HK	65 - 68	2	2	6:11	8C	AMCR	B	C	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EATO	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EATO	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	MODO	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	MODO	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	FISP	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	RBWO	A	C	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	AMCR	A	C	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	COYE	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:27	9C	AMRO	A	C	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	BLJA	B	C	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	EUST	B	FO	1	
7/24/2020	HK	65 - 68	2	2	6:27	9C	CEDW	B	C	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	GCFL	B	C	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	AMGO	B	S	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	AMGO	B	S	3	
7/24/2020	HK	65 - 68	2	2	6:27	9C	AMGO	B	S	3	
7/24/2020	HK	65 - 68	2	2	6:39	near 8A	RTHA	C	C	1	
7/24/2020	HK	65 - 68	2	2	6:48	8A	ALFL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:48	8A	BLJA	A	C	2	
7/24/2020	HK	65 - 68	2	2	6:48	8A	AMCR	A	C	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	AMRO	A	C	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	AMRO	A	C	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	EATO	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:48	8A	COYE	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:48	8A	COYE	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	FISP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:48	8A	SOSP	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	SOSP	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:48	8A	WOTH	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:48	8A	GCFL	B	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	RTHA	A	C	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	WOTH	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	FISP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	FISP	A	S	1	
7/24/2020	HK	65 - 68	2	2	6:57	8B	FISP	A	S	1	
7/24/2020	HK	65 - 68	2	2	6:57	8B	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	AMCR	A	C	3	
7/24/2020	HK	65 - 68	2	2	6:57	8B	AMCR	A	C	3	
7/24/2020	HK	65 - 68	2	2	6:57	8B	COYE	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	AMGO	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	AMGO	A	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	GRCA	A	S	3	
7/24/2020	HK	65 - 68	2	2	6:57	8B	BLJA	A	C	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	BLJA	A	C	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	ALFL	B	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	ALFL	B	S	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	RBWO	B	C	2	
7/24/2020	HK	65 - 68	2	2	6:57	8B	NOCA	B	C	3	
7/24/2020	HK	65 - 68	2	2	7:10	Leaving Transect 8	HOWR	C	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	A	S	1	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	A	S	1	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	A	S	1	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	AMGO	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	AMGO	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	AMGO	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	AMCR	A	C	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	BARS	A	I	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RBWO	A	C	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	BLJA	A	C	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	SAVS	A	S	1	
7/24/2020	HK	65 - 68	2	2	7:24	9A	GCFL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:24	9A	FISP	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	B	I	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	B	I	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	B	I	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	B	I	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	B	I	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	B	I	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	RWBL	B	I	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	TRES	B	C	1	
7/24/2020	HK	65 - 68	2	2	7:24	9A	NOCA	B	S	3	
7/24/2020	HK	65 - 68	2	2	7:24	9A	GRCA	B	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	SOSP	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	SAVS	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	NOCA	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	COYE	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	AMGO	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	MODO	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	SOSP	A	S	1	
7/24/2020	HK	65 - 68	2	2	7:37	9B	FISP	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	GCFL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	AMRO	A	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	BARS	A	C	1	
7/24/2020	HK	65 - 68	2	2	7:37	9B	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	RWBL	A	S	2	
7/24/2020	HK	65 - 68	2	2	7:37	9B	BCCH	B	S	3	
7/24/2020	HK	65 - 68	2	2	7:37	9B	EAME	B	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:03	Arriving at Transect 11	SAVS	C	I	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:03	Arriving at Transect 11	SAVS	C	I	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:03	Arriving at Transect 11	SAVS	C	I	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	BOBO	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	RWBL	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	COYE	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	SOSP	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	SOSP	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	SOSP	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	CHSP	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	GRCA	B	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:10	11A	SOSP	B	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	AMCR	A	C	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	1	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	SOSP	A	C	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	SOSP	A	C	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	SOSP	A	C	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	SOSP	A	C	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	AMGO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	AMGO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	AMGO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	WBNU	A	C	3	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	BLJA	A	C	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	EAME	B	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	8:28	10A	MODO	B	S	3	



Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	EAWP	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	EAWP	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	OVEN	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	NOCA	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	NOCA	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	NOFL	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	EAME	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	SAVS	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	SOSP	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	SOSP	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	SOSP	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	AMGO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	AMGO	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	HOWR	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	RWBL	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	REVI	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	AMRE	B	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:20	12C	HOWA	B	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	AMRE	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	AMRE	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	HOWA	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	HOWA	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	BLJA	A	C	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	AMRO	A	C	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	REVI	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	REVI	A	S	3	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	BCCH	A	S	2	
7/24/2020	HK	68 - 73	1 - 2	1	9:32	12B	OVEN	B	S	2	
7/31/2020	HK	63 - 66	0	1	6:04	1A	EATO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:04	1A	EATO	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	EATO	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	COYE	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:04	1A	AMCR	A	C	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	AMCR	A	C	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	AMRO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:04	1A	AMRO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:04	1A	GRCA	A	C	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	HOWR	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:04	1A	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:04	1A	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:04	1A	SOSP	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	SOSP	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	YEWA	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	MOD0	B	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	MOD0	B	S	3	
7/31/2020	HK	63 - 66	0	1	6:04	1A	CEDW	B	S	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	GRCA	A	C	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	WITU	A	C	3	
7/31/2020	HK	63 - 66	0	1	6:15	1D	AMCR	A	C	3	
7/31/2020	HK	63 - 66	0	1	6:15	1D	BCCH	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	GCFL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	GCFL	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/31/2020	HK	63 - 66	0	1	6:15	1D	HOWR	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	EAWP	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	GRCA	A	I	1	
7/31/2020	HK	63 - 66	0	1	6:15	1D	EATO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	EATO	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:15	1D	AMGO	B	C	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	WBNU	B	C	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	CEDW	B	S	2	
7/31/2020	HK	63 - 66	0	1	6:15	1D	MODO	B	S	3	
7/31/2020	HK	63 - 66	0	1	6:33	1B	EATO	A	S	1	
7/31/2020	HK	63 - 66	0	1	6:33	1B	EATO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	EATO	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:33	1B	EATO	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:33	1B	COYE	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	AMRO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	EAME	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	SOSP	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:33	1B	SOSP	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:33	1B	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	SAVS	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	GCFL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	AMCR	A	C	3	
7/31/2020	HK	63 - 66	0	1	6:33	1B	WOTH	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:33	1B	WIFL	B	S	2	
7/31/2020	HK	63 - 66	0	1	6:33	1B	MODO	B	S	3	
7/31/2020	HK	63 - 66	0	1	6:33	1B	BARS	B	I	1	
7/31/2020	HK	63 - 66	0	1	6:42	Approaching 1C	EUST	C	I	1	45 individuals perched on utility line
7/31/2020	HK	63 - 66	0	1	6:42	Approaching 1C	BARS	C	I	1	7 individuals perched on utility line
7/31/2020	HK	63 - 66	0	1	6:42	Approaching 1C	MODO	C	I	1	10 individuals perched on utility line
7/31/2020	HK	63 - 66	0	1	6:42	Approaching 1C	RWBL	C	I	1	15 individuals perched on utility line
7/31/2020	HK	63 - 66	0	1	6:46	1C	AMRO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	HOWR	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	GCFL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	GCFL	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	BEKI	A	FO	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	WOTH	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	WOTH	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	AMCR	A	C	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	MODO	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	MODO	A	S	3	
7/31/2020	HK	63 - 66	0	1	6:46	1C	EAME	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/31/2020	HK	63 - 66	0	1	6:46	1C	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	6:46	1C	AMGO	B	S	1	
7/31/2020	HK	63 - 66	0	1	6:46	1C	EATO	B	S	2	
7/31/2020	HK	63 - 66	0	1	7:01	2B	GRCA	A	S	1	
7/31/2020	HK	63 - 66	0	1	7:01	2B	SOSP	A	S	1	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	AMRO	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:01	2B	MODO	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	EATO	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:01	2B	AMCR	B	C	3	
7/31/2020	HK	63 - 66	0	1	7:01	2B	COYE	B	C	2	
7/31/2020	HK	63 - 66	0	1	7:01	2B	SOSP	B	S	2	
7/31/2020	HK	63 - 66	0	1	7:01	2B	SOSP	B	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	COYE	A	S	1	
7/31/2020	HK	63 - 66	0	1	7:31	2A	SOSP	A	S	1	
7/31/2020	HK	63 - 66	0	1	7:31	2A	SOSP	A	S	1	
7/31/2020	HK	63 - 66	0	1	7:31	2A	AMRO	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	AMGO	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	GCFL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	WIFL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	SOSP	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	BOBO	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	NOCA	A	S	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	AMCR	A	C	3	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/31/2020	HK	63 - 66	0	1	7:31	2A	RWBL	A	S	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	EAME	A	C	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	EAME	A	C	2	
7/31/2020	HK	63 - 66	0	1	7:31	2A	MODO	A	S	3	
7/31/2020	HK	66	1	1	7:39	Approaching 3A	WITU	C	I	1	
7/31/2020	HK	66	1	1	7:39	Approaching 3A	WITU	C	I	1	
7/31/2020	HK	66	1	1	7:39	Approaching 3A	WITU	C	I	1	
7/31/2020	HK	66	1	1	7:39	Approaching 3A	WITU	C	I	1	
7/31/2020	HK	66	1	1	7:41	3A	AMCR	A	C	3	
7/31/2020	HK	66	1	1	7:41	3A	AMCR	A	C	3	
7/31/2020	HK	66	1	1	7:41	3A	MODO	A	S	3	
7/31/2020	HK	66	1	1	7:41	3A	EATO	A	S	2	
7/31/2020	HK	66	1	1	7:41	3A	EATO	A	S	2	
7/31/2020	HK	66	1	1	7:41	3A	FISP	A	S	2	
7/31/2020	HK	66	1	1	7:41	3A	FISP	A	S	2	
7/31/2020	HK	66	1	1	7:41	3A	GCFL	A	S	2	
7/31/2020	HK	66	1	1	7:41	3A	NOFL	A	C	3	
7/31/2020	HK	66	1	1	7:41	3A	SOSP	A	S	2	
7/31/2020	HK	66	1	1	7:41	3A	SOSP	A	S	2	
7/31/2020	HK	66	1	1	7:41	3A	COYE	A	S	2	
7/31/2020	HK	66	1	1	7:41	3A	TRES	B	C	2	
7/31/2020	HK	66	1	1	7:41	3A	TRES	B	C	2	
7/31/2020	HK	66	1	1	7:53	3B	GCFL	A	S	2	
7/31/2020	HK	66	1	1	7:53	3B	SOSP	A	S	1	
7/31/2020	HK	66	1	1	7:53	3B	SOSP	A	S	1	
7/31/2020	HK	66	1	1	7:53	3B	GRCA	A	S	1	
7/31/2020	HK	66	1	1	7:53	3B	SOSP	A	S	2	
7/31/2020	HK	66	1	1	7:53	3B	SOSP	A	S	2	
7/31/2020	HK	66	1	1	7:53	3B	FISP	A	S	3	
7/31/2020	HK	66	1	1	7:53	3B	BLJA	A	C	2	
7/31/2020	HK	66	1	1	7:53	3B	AMCR	A	C	3	
7/31/2020	HK	66	1	1	7:53	3B	AMCR	A	C	3	
7/31/2020	HK	66	1	1	7:53	3B	AMCR	A	C	3	
7/31/2020	HK	66	1	1	7:53	3B	EATO	A	S	2	
7/31/2020	HK	66	1	1	7:53	3B	AMGO	A	S	3	
7/31/2020	HK	66	1	1	8:27	4A	COYE	A	S	2	
7/31/2020	HK	66	1	1	8:27	4A	COYE	A	S	2	
7/31/2020	HK	66	1	1	8:27	4A	COYE	A	S	3	
7/31/2020	HK	66	1	1	8:27	4A	EATO	A	S	2	
7/31/2020	HK	66	1	1	8:27	4A	GRCA	A	S	2	
7/31/2020	HK	66	1	1	8:27	4A	AMGO	A	S	2	
7/31/2020	HK	66	1	1	8:27	4A	AMGO	A	S	2	
7/31/2020	HK	66	1	1	8:27	4A	ALFL	A	S	2	
7/31/2020	HK	66	1	1	8:27	4A	SOSP	A	C	2	
7/31/2020	HK	66	1	1	8:27	4A	SOSP	A	C	2	
7/31/2020	HK	66	1	1	8:27	4A	NOCA	A	S	3	
7/31/2020	HK	66	1	1	8:27	4A	FISP	A	S	3	
7/31/2020	HK	66	1	1	8:27	4A	BCCH	B	S	3	
7/31/2020	HK	66	1	1	8:36	4B	FISP	A	S	1	
7/31/2020	HK	66	1	1	8:36	4B	FISP	A	S	2	
7/31/2020	HK	66	1	1	8:36	4B	GRCA	A	S	3	
7/31/2020	HK	66	1	1	8:36	4B	AMCR	A	C	3	
7/31/2020	HK	66	1	1	8:36	4B	COYE	A	S	3	
7/31/2020	HK	66	1	1	8:36	4B	COYE	A	S	2	
7/31/2020	HK	66	1	1	8:36	4B	SOSP	A	C	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/31/2020	HK	66	1	1	8:36	4B	SOSP	A	C	2	
7/31/2020	HK	66	1	1	8:36	4B	GCFL	A	C	3	
7/31/2020	HK	66	1	1	8:36	4B	BCCH	A	C	2	
7/31/2020	HK	66	1	1	8:36	4B	AMRO	A	C	3	
7/31/2020	HK	66	1	1	8:36	4B	HOWR	B	S	3	
7/31/2020	HK	66	1	1	8:36	4B	CEDW	B	S	3	
7/31/2020	HK	66	1	1	8:36	4B	AMGO	B	C	2	
7/31/2020	HK	66	1	1	8:36	4B	EAME	B	C	2	
7/31/2020	HK	66	1	1	8:45	4C	AMRO	A	S	2	
7/31/2020	HK	66	1	1	8:45	4C	REVI	A	S	2	
7/31/2020	HK	66	1	1	8:45	4C	COYE	A	S	3	
7/31/2020	HK	66	1	1	8:45	4C	CORA	A	C	3	
7/31/2020	HK	66	1	1	8:45	4C	ACFL	A	S	2	
7/31/2020	HK	66	1	1	8:45	4C	AMRE	A	S	2	
7/31/2020	HK	66	1	1	8:45	4C	BCCH	B	S	3	
7/31/2020	HK	66	1	1	9:00	Approaching Transect 7	RTHA	C	I	1	Perched on utility pole
7/31/2020	HK	66	1	1	9:00	Approaching Transect 7	RTHA	C	I	1	Perched on utility pole
7/31/2020	HK	66	1	1	9:23	7B	BOBO	A	C	1	
7/31/2020	HK	66	1	1	9:23	7B	BOBO	A	C	1	
7/31/2020	HK	66	1	1	9:23	7B	BOBO	A	C	1	
7/31/2020	HK	66	1	1	9:23	7B	WIFL	A	C	2	
7/31/2020	HK	66	1	1	9:23	7B	WIFL	A	C	2	
7/31/2020	HK	66	1	1	9:23	7B	RWBL	A	C	2	
7/31/2020	HK	66	1	1	9:23	7B	RWBL	A	C	2	
7/31/2020	HK	66	1	1	9:23	7B	RWBL	A	C	2	
7/31/2020	HK	66	1	1	9:23	7B	RWBL	A	C	2	
7/31/2020	HK	66	1	1	9:23	7B	RWBL	A	C	2	
7/31/2020	HK	66	1	1	9:23	7B	AMGO	A	C	1	
7/31/2020	HK	66	1	1	9:23	7B	AMGO	A	C	1	
7/31/2020	HK	66	1	1	9:23	7B	AMGO	A	S	2	
7/31/2020	HK	66	1	1	9:23	7B	SOSP	A	S	2	
7/31/2020	HK	66	1	1	9:23	7B	SOSP	A	S	2	
7/31/2020	HK	66	1	1	9:23	7B	BLJA	A	C	2	
7/31/2020	HK	66	1	1	9:23	7B	MODO	B	S	3	
7/31/2020	HK	66	1	1	9:23	7B	FISP	B	S	2	
7/31/2020	HK	66	1	1	9:23	7B	CEDW	B	I	2	
7/31/2020	HK	66	1	1	9:23	7B	CEDW	B	I	2	
7/31/2020	HK	66	1	1	9:23	7B	CEDW	B	I	2	
7/31/2020	HK	66	1	1	9:23	7B	GRCA	B	C	3	
7/31/2020	HK	66	1	1	9:23	7B	EAME	B	S	3	
7/31/2020	HK	66	1	1	9:23	7B	SOSP	B	S	1	
7/31/2020	HK	66	1	1	9:23	7B	SOSP	B	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	AMCR	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	AMCR	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	EAWP	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	AMRO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	AMRO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	AMRO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	REVI	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	REVI	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	REVI	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	SOSP	A	S	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/31/2020	TC	66 - 63	0 - 1	1	6:18	14A	MODO	B	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	AMGO	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	CHSP	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	REVI	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	EAWP	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	EAWP	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	PIWO	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	AMRO	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	ALFL	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	AMRE	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	BCCH	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:30	14B	RBWO	A	C	2	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	BOBO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	BOBO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	BOBO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	BOBO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	WIFL	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	CHSP	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	CHSP	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	COYE	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	BBCU	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	MODO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	MODO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	AMRO	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	WIFL	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	CEDW	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	EATO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	TRES	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	TRES	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	NOFL	B	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	AMCR	B	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	BCCH	B	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	BCCH	B	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	TRES	B	1	3	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	TRES	B	1	3	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	TRES	B	1	3	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	6:54	13B	TRES	B	1	3	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	COYE	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	MODO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	SOSP	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	AMRO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	AMRO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	TRES	A	I	2	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	TRES	A	I	2	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	TRES	A	I	2	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	BBCU	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	BLJA	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	WIFL	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	REVI	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	REVI	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	EAWP	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	BCCH	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	COYE	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	AMGO	B	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:08	13A	AMGO	B	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	EAME	A	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	TRES	A	I	1	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	EAKI	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	BLJA	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	BLJA	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	EAWP	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	AMRO	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:39	12A	REVI	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	REVI	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	REVI	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	WOTH	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	REVI	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	REVI	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	WIWR	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	WIWR	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	BLJA	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	CORA	B	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	7:53	12B	KILL	B	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	BOBO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	BOBO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	BOBO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	BOBO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	SOSP	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	SOSP	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	EAKI	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	WOTH	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	REVI	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:11	12C	SOSP	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	BOBO	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	BOBO	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	BOBO	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	BOBO	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	RWBL	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	RWBL	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	RWBL	A	C	1	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	COYE	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	GRCA	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	BLJA	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	BLJA	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:42	11A	AMGO	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	8:58	10B	TRES	A	C	1	Loud music playing from nearby residence during survey
7/31/2020	TC	66 - 63	0 - 1	1	8:58	10B	TRES	A	C	1	Loud music playing from nearby residence during survey
7/31/2020	TC	66 - 63	0 - 1	1	8:58	10B	COYE	A	S	3	Loud music playing from nearby residence during survey
7/31/2020	TC	66 - 63	0 - 1	1	8:58	10B	AMRO	A	S	3	Loud music playing from nearby residence during survey
7/31/2020	TC	66 - 63	0 - 1	1	8:58	10B	AMGO	A	S	2	Loud music playing from nearby residence during survey
7/31/2020	TC	66 - 63	0 - 1	1	8:58	10B	SOSP	A	S	3	Loud music playing from nearby residence during survey
7/31/2020	TC	66 - 63	0 - 1	1	8:58	10B	SASP	A	C	1	Loud music playing from nearby residence during survey
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	RWBL	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	RWBL	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	RWBL	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	AMGO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	NOCA	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	EUST	A	I	1	Flock of 100-200 individuals observed

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	AMCR	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	GRCA	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	BLJA	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	BLJA	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	TRES	A	I	1	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	TRES	A	I	2	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	TRES	A	I	2	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	9:05	10A	TRES	A	I	2	Foraging
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	RWBL	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	RWBL	A	C	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	AMGO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	AMGO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	AMGO	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	COYE	A	S	3	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	AMGO	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	AMGO	A	S	1	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	SOSP	A	S	2	
7/31/2020	TC	66 - 63	0 - 1	1	9:17	7A	FISP	A	S	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	AMCR	A	C	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	AMCR	A	C	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BOBO	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BOBO	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BOBO	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BOBO	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BOBO	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BOBO	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:38	5B	RWBL	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:38	5B	RWBL	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:38	5B	CANG	A	C	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	SASP	AB	S	2	
6/4/2020	HK, SPF	62	0	2	8:38	5B	SOSP	AB	S	2	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BASW	AB	I	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BASW	AB	I	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BASW	AB	I	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	BASW	AB	I	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	AMRO	B	S	2	
6/4/2020	HK, SPF	62	0	2	8:38	5B	HETH	B	S	3	
6/4/2020	HK, SPF	62	0	2	8:38	5B	AMGO	B	S	2	
6/4/2020	HK, SPF	62	0	2	8:38	5B	AMGO	B	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	RWBL	A	C	1	
6/4/2020	HK, SPF	62	0	2	8:51	5C	RWBL	A	C	1	
6/4/2020	HK, SPF	62	0	2	8:51	5C	INBU	A	C	1	
6/4/2020	HK, SPF	62	0	2	8:51	5C	SOSP	AB	I	1	
6/4/2020	HK, SPF	62	0	2	8:51	5C	BOBO	AB	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	BOBO	AB	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	BOBO	AB	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	AMCR	A	C	3	
6/4/2020	HK, SPF	62	0	2	8:51	5C	YEWA	AB	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	YEWA	AB	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	AMGO	AB	C	1	
6/4/2020	HK, SPF	62	0	2	8:51	5C	AMGO	AB	C	1	
6/4/2020	HK, SPF	62	0	2	8:51	5C	CSWA	AB	C	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	COYE	AB	S	1	
6/4/2020	HK, SPF	62	0	2	8:51	5C	RBGR	B	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	HETH	B	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	RWBL	AB	S	1	
6/4/2020	HK, SPF	62	0	2	8:51	5C	RWBL	AB	S	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/4/2020	HK, SPF	62	0	2	8:51	5C	FISP	B	S	2	
6/4/2020	HK, SPF	62	0	2	8:51	5C	BLJA	B	C	3	
6/4/2020	HK, SPF	62	0	2	9:58	10A	WIFL	AB	S	1	
6/4/2020	HK, SPF	62	0	2	9:58	10A	WIFL	AB	S	1	
6/4/2020	HK, SPF	62	0	2	9:58	10A	BOBO	AB	S	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	BOBO	AB	S	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	AMGO	A	S	1	
6/4/2020	HK, SPF	62	0	2	9:58	10A	COYE	AB	S	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	RWBL	AB	S	1	
6/4/2020	HK, SPF	62	0	2	9:58	10A	YEWA	AB	S	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	COGR	AB	C	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	COGR	AB	C	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	COGR	AB	C	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	SOSP	AB	S	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	SOSP	AB	S	2	
6/4/2020	HK, SPF	62	0	2	9:58	10A	BASW	B	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	BOBO	AB	I	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	BOBO	AB	I	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	BOBO	AB	I	1	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	BOBO	AB	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	BOBO	AB	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	EAME	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	RWBL	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	RWBL	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	AMCR	AB	C	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	RWBL	AB	I	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	AMGO	B	C	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:26	8C	AMCR	B	C	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	NOCA	A	C	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	ALFL	A	C	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	YEWA	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	RWBL	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	RWBL	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	BOBO	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	BOBO	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	FISP	AB	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	ALFL	AB	S	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	BASW	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	BASW	A	I	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	KILL	AB	C	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	KILL	AB	C	3	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	AMRO	AB	C	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	BCCH	B	C	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	COYE	B	S	2	
6/5/2020	HK, SPF	62 - 72	2 - 3	3	8:43	9C	BHCO	B	C	2	
6/12/2020	SPF	59	2	0	5:40	8C	GRCA	AB	S	1	
6/12/2020	SPF	59	2	0	5:40	8C	EAWP	AB	S	2	
6/12/2020	SPF	59	2	0	5:40	8C	EATO	A	S	2	
6/12/2020	SPF	59	2	0	5:40	8C	AMCR	AB	S	3	
6/12/2020	SPF	59	2	0	5:40	8C	WITU	A	I	2	
6/12/2020	SPF	59	2	0	5:40	8C	YEWA	AB	S	3	
6/12/2020	SPF	59	2	0	5:40	8C	SOSP	AB	S	2	
6/12/2020	SPF	59	2	0	5:40	8C	SOSP	AB	S	2	
6/12/2020	SPF	59	2	0	5:40	8C	RWBL	AB	S	3	
6/12/2020	SPF	59	2	0	5:40	8C	RWBL	AB	S	3	
6/12/2020	SPF	59	2	0	5:40	8C	EAPH	AB	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	SPF	59	2	0	5:40	8C	OVEN	AB	S	2	
6/12/2020	SPF	59	2	0	5:40	8C	Unknown Woodpecker	B	D	3	
6/12/2020	SPF	59	2	0	5:40	8C	MODO	AB	S	2	
6/12/2020	SPF	59	2	0	5:40	8C	AMCR	B	C	3	
6/12/2020	SPF	59	2	0	5:40	8C	PIWO	B	C	2	
6/12/2020	SPF	59	2	0	5:55	8B	FISP	AB	S	2	
6/12/2020	SPF	59	2	0	5:55	8B	FISP	AB	S	2	
6/12/2020	SPF	59	2	0	5:55	8B	YEWA	AB	S	3	
6/12/2020	SPF	59	2	0	5:55	8B	WIFL	AB	S	2	
6/12/2020	SPF	59	2	0	5:55	8B	RBWO	A	C	3	
6/12/2020	SPF	59	2	0	5:55	8B	MODO	AB	S	2	
6/12/2020	SPF	59	2	0	5:55	8B	MODO	AB	S	2	
6/12/2020	SPF	59	2	0	5:55	8B	REVI	AB	S	2	
6/12/2020	SPF	59	2	0	5:55	8B	COYE	AB	S	2	
6/12/2020	SPF	59	2	0	5:55	8B	GRCA	AB	S	2	
6/12/2020	SPF	59	2	0	5:55	8B	PIWO	B	D	2	
6/12/2020	SPF	59	2	0	5:55	8B	GRSP	B	S	1	
6/12/2020	SPF	59	2	0	5:55	8B	ALFL	B	C	2	
6/12/2020	SPF	59	2	0	5:55	8B	AMCR	B	C	3	
6/12/2020	SPF	59	2	0	5:55	8B	EAME	B	S	3	
6/12/2020	SPF	59	2	0	6:10	8A	ALFL	AB	C	1	
6/12/2020	SPF	59	2	0	6:10	8A	ALFL	AB	C	1	
6/12/2020	SPF	59	2	0	6:10	8A	FISP	AB	S	2	
6/12/2020	SPF	59	2	0	6:10	8A	EAKI	AB	I	1	
6/12/2020	SPF	59	2	0	6:10	8A	COYE	AB	S	1	
6/12/2020	SPF	59	2	0	6:10	8A	GRSP	AB	S	2	
6/12/2020	SPF	59	2	0	6:10	8A	GRSP	AB	S	2	
6/12/2020	SPF	59	2	0	6:10	8A	NOCA	AB	S	2	
6/12/2020	SPF	59	2	0	6:10	8A	FISP	AB	S	3	
6/12/2020	SPF	59	2	0	6:10	8A	PIWO	AB	C	3	
6/12/2020	SPF	59	2	0	6:10	8A	RBWO	AB	C	3	
6/12/2020	SPF	59	2	0	6:10	8A	RBWO	AB	C	3	
6/12/2020	SPF	59	2	0	6:10	8A	SOSP	AB	S	3	
6/12/2020	SPF	59	2	0	6:10	8A	BWVA	AB	S	2	
6/12/2020	SPF	59	2	0	6:10	8A	WIFL	AB	S	3	
6/12/2020	SPF	59	2	0	6:10	8A	WODU	B	C	2	
6/12/2020	SPF	59	2	0	6:10	8A	MODO	B	S	2	
6/12/2020	SPF	59	2	0	6:17	NEAR 8B	BOBO	C	S	2	
6/12/2020	SPF	59	2	0	6:17	NEAR 8B	BOBO	C	S	2	
6/12/2020	SPF	59	2	0	6:17	NEAR 8B	BOBO	C	S	2	
6/12/2020	SPF	59	2	0	6:43	Approaching 7B	CEDW	C	I	1	
6/12/2020	SPF	59	2	0	6:43	Approaching 7B	CEDW	C	I	1	
6/12/2020	SPF	59	2	0	6:55	7B	MODO	AB	S	2	
6/12/2020	SPF	59	2	0	6:55	7B	CEDW	AB	S	1	
6/12/2020	SPF	59	2	0	6:55	7B	CEDW	AB	S	1	
6/12/2020	SPF	59	2	0	6:55	7B	YEWA	AB	S	2	
6/12/2020	SPF	59	2	0	6:55	7B	RWBL	AB	I	2	
6/12/2020	SPF	59	2	0	6:55	7B	RWBL	AB	I	2	
6/12/2020	SPF	59	2	0	6:55	7B	RWBL	AB	I	2	
6/12/2020	SPF	59	2	0	6:55	7B	RWBL	AB	I	2	
6/12/2020	SPF	59	2	0	6:55	7B	CHSP	AB	S	2	
6/12/2020	SPF	59	2	0	6:55	7B	MODO	A	S	3	
6/12/2020	SPF	59	2	0	6:55	7B	RWBL	AB	S	3	
6/12/2020	SPF	59	2	0	6:55	7B	Unknown Woodpecker	AB	D	3	
6/12/2020	SPF	59	2	0	6:55	7B	WIFL	AB	S	2	
6/12/2020	SPF	59	2	0	6:55	7B	WIFL	AB	S	2	
6/12/2020	SPF	59	2	0	6:55	7B	BOBO	AB	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	SPF	59	2	0	6:55	7B	BOBO	AB	S	2	
6/12/2020	SPF	59	2	0	6:55	7B	WIFL	AB	I	3	
6/12/2020	SPF	59	2	0	6:55	7B	GCFL	B	C	2	
6/12/2020	SPF	59	2	0	6:55	7B	SOSP	B	S	1	
6/12/2020	SPF	59	2	0	6:55	7B	AMGO	B	I	1	
6/12/2020	SPF	59	2	0	6:55	7B	AMGO	B	I	1	
6/12/2020	SPF	59	2	0	6:55	7B	BLJA	B	C	3	
6/12/2020	SPF	59	2	0	7:21	7A	BASW	AB	I	1	
6/12/2020	SPF	59	2	0	7:21	7A	BASW	AB	I	1	
6/12/2020	SPF	59	2	0	7:21	7A	BASW	AB	I	1	
6/12/2020	SPF	59	2	0	7:21	7A	TRES	AB	I	1	
6/12/2020	SPF	59	2	0	7:21	7A	TRES	AB	I	1	
6/12/2020	SPF	59	2	0	7:21	7A	AMGO	A	C	1	
6/12/2020	SPF	59	2	0	7:21	7A	AMGO	AB	C	1	
6/12/2020	SPF	59	2	0	7:21	7A	AMGO	AB	C	1	
6/12/2020	SPF	59	2	0	7:21	7A	RWBL	AB	S	2	
6/12/2020	SPF	59	2	0	7:21	7A	RWBL	AB	S	2	
6/12/2020	SPF	59	2	0	7:21	7A	RWBL	AB	S	2	
6/12/2020	SPF	59	2	0	7:21	7A	RWBL	AB	S	2	
6/12/2020	SPF	59	2	0	7:21	7A	FISP	AB	S	2	
6/12/2020	SPF	59	2	0	7:21	7A	CEDW	AB	S	2	
6/12/2020	SPF	59	2	0	7:21	7A	CEDW	AB	S	2	
6/12/2020	SPF	59	2	0	7:21	7A	AMCR	AB	C	3	
6/12/2020	SPF	59	2	0	7:21	7A	COGR	B	I	2	
6/12/2020	SPF	59	2	0	7:21	7A	COGR	B	I	2	
6/12/2020	SPF	59	2	0	7:21	7A	KILL	B	C	2	
6/12/2020	SPF	59	2	0	7:21	7A	WOTH	B	S	3	
6/12/2020	SPF	59	2	0	7:55	6C	AMGO	AB	S	1	
6/12/2020	SPF	59	2	0	7:55	6C	AMGO	AB	S	1	
6/12/2020	SPF	59	2	0	7:55	6C	AMGO	AB	S	1	
6/12/2020	SPF	59	2	0	7:55	6C	RWBL	AB	I	1	
6/12/2020	SPF	59	2	0	7:55	6C	RWBL	AB	I	1	
6/12/2020	SPF	59	2	0	7:55	6C	RWBL	AB	I	1	
6/12/2020	SPF	59	2	0	7:55	6C	FISP	AB	S	1	
6/12/2020	SPF	59	2	0	7:55	6C	AMCR	AB	C	3	
6/12/2020	SPF	59	2	0	7:55	6C	GRCA	AB	C	2	
6/12/2020	SPF	59	2	0	7:55	6C	TUVU	A	FO	2	
6/12/2020	SPF	59	2	0	7:55	6C	YEWA	AB	S	2	
6/12/2020	SPF	59	2	0	7:55	6C	YEWA	AB	S	2	
6/12/2020	SPF	59	2	0	7:55	6C	COYE	AB	S	2	
6/12/2020	SPF	59	2	0	7:55	6C	COYE	AB	S	2	
6/12/2020	SPF	59	2	0	7:55	6C	FISP	AB	S	3	
6/12/2020	SPF	59	2	0	7:55	6C	CEDW	A	C	1	
6/12/2020	SPF	59	2	0	7:55	6C	CEDW	A	C	1	
6/12/2020	SPF	59	2	0	7:55	6C	SOSP	A	S	2	
6/12/2020	SPF	59	2	0	7:55	6C	NOCA	AB	S	3	
6/12/2020	SPF	59	2	0	7:55	6C	FISP	B	S	3	
6/12/2020	SPF	59	2	0	8:07	Leaving 6C	BOBO	C	I	1	
6/12/2020	SPF	59	2	0	8:25	6B	BOBO	AB	I	1	
6/12/2020	SPF	59	2	0	8:25	6B	BOBO	AB	I	1	
6/12/2020	SPF	59	2	0	8:25	6B	BOBO	AB	I	1	
6/12/2020	SPF	59	2	0	8:25	6B	BOBO	AB	S	2	
6/12/2020	SPF	59	2	0	8:25	6B	BOBO	AB	S	2	
6/12/2020	SPF	59	2	0	8:25	6B	BOBO	AB	S	2	
6/12/2020	SPF	59	2	0	8:25	6B	RWBL	AB	S	2	
6/12/2020	SPF	59	2	0	8:25	6B	RWBL	AB	S	2	
6/12/2020	SPF	59	2	0	8:25	6B	RWBL	AB	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	SPF	59	2	0	8:25	6B	BASW	AB	FO	1	
6/12/2020	SPF	59	2	0	8:25	6B	BASW	AB	S	1	
6/12/2020	SPF	59	2	0	8:25	6B	ALFL	AB	C	2	
6/12/2020	SPF	59	2	0	8:25	6B	EAPH	AB	S	3	
6/12/2020	SPF	59	2	0	8:25	6B	AMCR	AB	C	2	
6/12/2020	SPF	59	2	0	8:25	6B	AMRO	AB	C	1	
6/12/2020	SPF	59	2	0	8:25	6B	AMRO	AB	C	1	
6/12/2020	SPF	59	2	0	8:25	6B	AMGO	B	FO	1	
6/12/2020	SPF	59	2	0	8:25	6B	AMGO	B	S	2	
6/12/2020	SPF	59	2	0	8:25	6B	AMGO	B	S	2	
6/12/2020	SPF	59	2	0	8:25	6B	COYE	B	S	3	
6/12/2020	SPF	59	2	0	8:25	6B	CSWA	B	S	3	
6/12/2020	SPF	59	2	0	8:25	6B	TRES	B	FO	2	
6/12/2020	SPF	59	2	0	8:25	6B	TRES	B	FO	2	
6/12/2020	SPF	59	2	0	8:25	6B	TUVU	B	FO	2	
6/12/2020	SPF	59	2	0	8:41	6A	REVI	AB	S	1	
6/12/2020	SPF	59	2	0	8:41	6A	REVI	AB	S	1	
6/12/2020	SPF	59	2	0	8:41	6A	EAWP	A	S	3	
6/12/2020	SPF	59	2	0	8:41	6A	BRCR	AB	S	2	
6/12/2020	SPF	59	2	0	8:41	6A	AMCR	A	C	2	
6/12/2020	SPF	59	2	0	8:41	6A	BLJA	AB	C	2	
6/12/2020	SPF	59	2	0	8:41	6A	OVEN	AB	S	2	
6/12/2020	SPF	59	2	0	8:41	6A	YEWA	A	S	3	
6/12/2020	SPF	59	2	0	8:41	6A	REVI	B	S	2	
6/12/2020	SPF	59	2	0	8:41	6A	EATO	B	S	1	
6/12/2020	SPF	59	2	0	9:08	5A	CSWA	AB	S	1	
6/12/2020	SPF	59	2	0	9:08	5A	COYE	AB	S	3	
6/12/2020	SPF	59	2	0	9:08	5A	AMCR	AB	C	3	
6/12/2020	SPF	59	2	0	9:08	5A	FISP	AB	S	2	
6/12/2020	SPF	59	2	0	9:08	5A	FISP	AB	S	3	
6/12/2020	SPF	59	2	0	9:08	5A	COYE	AB	S	3	
6/12/2020	SPF	59	2	0	9:08	5A	SOSP	AB	S	2	
6/12/2020	SPF	59	2	0	9:08	5A	SOSP	AB	S	2	
6/12/2020	SPF	59	2	0	9:08	5A	EAPH	AB	S	2	
6/12/2020	SPF	59	2	0	9:08	5A	WOTH	AB	S	3	
6/12/2020	SPF	59	2	0	9:08	5A	CORA	AB	C	3	
6/12/2020	SPF	59	2	0	9:08	5A	TUVU	A	I	3	
6/12/2020	SPF	59	2	0	9:08	5A	TUVU	A	I	3	
6/12/2020	SPF	59	2	0	9:08	5A	TUVU	A	I	3	
6/12/2020	SPF	59	2	0	9:08	5A	AMGO	AB	S	2	
6/12/2020	SPF	59	2	0	9:08	5A	AMGO	AB	S	2	
6/12/2020	SPF	59	2	0	9:08	5A	CANG	AB	C	2	
6/12/2020	SPF	59	2	0	9:08	5A	SOSP	AB	I	1	
6/12/2020	SPF	59	2	0	9:08	5A	YEWA	B	S	1	
6/12/2020	SPF	59	2	0	9:08	5A	YEWA	B	S	1	
6/12/2020	SPF	59	2	0	9:15	Leaving 5A	EATO	C	S	1	
6/12/2020	SPF	59	2	0	9:16	Leaving 5A	BWWW	C	S	1	
6/12/2020	SPF	59	2	0	9:27	5D	CHSP	AB	S	1	
6/12/2020	SPF	59	2	0	9:27	5D	CHSP	AB	S	1	
6/12/2020	SPF	59	2	0	9:27	5D	AMRS	A	S	3	
6/12/2020	SPF	59	2	0	9:27	5D	CHSP	AB	S	2	
6/12/2020	SPF	59	2	0	9:27	5D	RWBL	AB	C	2	
6/12/2020	SPF	59	2	0	9:27	5D	RWBL	AB	C	2	
6/12/2020	SPF	59	2	0	9:27	5D	RTHA	A	I	3	
6/12/2020	SPF	59	2	0	9:27	5D	TUVU	A	FO	3	
6/12/2020	SPF	59	2	0	9:27	5D	PIWA	AB	S	2	
6/12/2020	SPF	59	2	0	9:27	5D	BLJA	B	C	3	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
6/12/2020	SPF	59	2	0	9:27	5D	BHVI	B	S	2	
6/12/2020	SPF	59	2	0	9:27	5D	AMGO	AB	C	2	
6/12/2020	SPF	59	2	0	9:27	5D	AMGO	AB	C	2	
6/12/2020	SPF	59	2	0	9:27	5D	FISP	B	S	2	
6/12/2020	SPF	59	2	0	9:27	5D	OVEN	B	S	2	
6/12/2020	SPF	59	2	0	9:38	Approaching 5B	GRSP	C	S	2	
6/12/2020	SPF	59	2	0	9:54	5B	BOBO	AB	S	1	
6/12/2020	SPF	59	2	0	9:54	5B	BOBO	AB	S	1	
6/12/2020	SPF	59	2	0	9:54	5B	BOBO	AB	S	1	
6/12/2020	SPF	59	2	0	9:54	5B	RWBL	AB	S	2	
6/12/2020	SPF	59	2	0	9:54	5B	RWBL	AB	S	2	
6/12/2020	SPF	59	2	0	9:54	5B	AMCR	A	C	3	
6/12/2020	SPF	59	2	0	9:54	5B	AMCR	A	C	3	
6/12/2020	SPF	59	2	0	9:54	5B	EAME	AB	I	2	
6/12/2020	SPF	59	2	0	9:54	5B	EAME	AB	S	3	
6/12/2020	SPF	59	2	0	9:54	5B	AMGO	AB	C	2	
6/12/2020	SPF	59	2	0	9:54	5B	AMGO	AB	C	2	
6/12/2020	SPF	59	2	0	9:54	5B	BASW	AB	I	2	
6/12/2020	SPF	59	2	0	9:54	5B	BASW	AB	I	2	
6/12/2020	SPF	59	2	0	9:54	5B	BASW	AB	I	2	
6/12/2020	SPF	59	2	0	9:54	5B	YEWA	B	S	3	
6/12/2020	SPF	59	2	0	9:54	5B	KILL	B	C	3	
7/16/2020	SPF	74	2	2	5:46	3A	AMCR	A	C	2	
7/16/2020	SPF	74	2	2	5:46	3A	AMCR	A	C	2	
7/16/2020	SPF	74	2	2	5:46	3A	AMCR	A	C	1	
7/16/2020	SPF	74	2	2	5:46	3A	RBGR	AB	S	2	
7/16/2020	SPF	74	2	2	5:46	3A	SOSP	AB	S	2	
7/16/2020	SPF	74	2	2	5:46	3A	SOSP	AB	S	2	
7/16/2020	SPF	74	2	2	5:46	3A	EAPH	A	S	2	
7/16/2020	SPF	74	2	2	5:46	3A	BCCH	A	S	3	
7/16/2020	SPF	74	2	2	5:46	3A	COYE	AB	S	3	
7/16/2020	SPF	74	2	2	5:46	3A	AMGO	B	C	1	
7/16/2020	SPF	74	2	2	5:46	3A	DEJU	B	I	1	
7/16/2020	SPF	74	2	2	5:46	3A	AMRO	B	C	2	
7/16/2020	SPF	74	2	2	6:04	3B	RWBL	AB	I	1	
7/16/2020	SPF	74	2	2	6:04	3B	RWBL	AB	I	1	
7/16/2020	SPF	74	2	2	6:04	3B	RWBL	AB	I	1	
7/16/2020	SPF	74	2	2	6:04	3B	RWBL	AB	I	1	
7/16/2020	SPF	74	2	2	6:04	3B	RWBL	AB	I	1	
7/16/2020	SPF	74	2	2	6:04	3B	AMCR	AB	C	3	
7/16/2020	SPF	74	2	2	6:04	3B	FISP	AB	S	2	
7/16/2020	SPF	74	2	2	6:04	3B	COYE	A	S	3	
7/16/2020	SPF	74	2	2	6:04	3B	YEWA	A	S	2	
7/16/2020	SPF	74	2	2	6:04	3B	FISP	AB	S	3	
7/16/2020	SPF	74	2	2	6:04	3B	DEJU	A	C	3	
7/16/2020	SPF	74	2	2	6:04	3B	SAVS	B	S	2	
7/16/2020	SPF	74	2	2	6:04	3B	SAVS	B	S	2	
7/16/2020	SPF	74	2	2	6:33	7A	KILL	A	C	2	
7/16/2020	SPF	74	2	2	6:33	7A	KILL	A	C	2	
7/16/2020	SPF	74	2	2	6:33	7A	AMGO	AB	C	2	
7/16/2020	SPF	74	2	2	6:33	7A	AMGO	AB	C	2	
7/16/2020	SPF	74	2	2	6:33	7A	AMGO	AB	C	2	
7/16/2020	SPF	74	2	2	6:33	7A	REVI	AB	S	1	
7/16/2020	SPF	74	2	2	6:33	7A	RWBL	A	C	2	
7/16/2020	SPF	74	2	2	6:33	7A	RWBL	A	C	2	
7/16/2020	SPF	74	2	2	6:33	7A	NOCA	AB	C	1	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/16/2020	SPF	74	2	2	6:33	7A	COYE	AB	S	2	
7/16/2020	SPF	74	2	2	6:33	7A	YEWA	AB	S	1	
7/16/2020	SPF	74	2	2	6:33	7A	EUST	B	FO	1	
7/16/2020	SPF	74	2	2	6:33	7A	EUST	B	FO	1	
7/16/2020	SPF	74	2	2	6:33	7A	BASW	B	S	1	
7/16/2020	SPF	74	2	2	6:33	7A	BASW	B	S	1	
7/16/2020	SPF	74	2	2	6:33	7A	BASW	B	S	1	
7/16/2020	SPF	74	2	2	6:33	7A	FISP	B	S	2	
7/16/2020	SPF	74	2	2	6:33	7A	AMGO	B	FO	1	
7/16/2020	SPF	74	2	2	6:33	7A	BASW	B	FO	1	
7/16/2020	SPF	74	2	2	6:33	7A	BASW	B	FO	1	
7/16/2020	SPF	74	2	2	6:45	7B	FISP	AB	S	2	
7/16/2020	SPF	74	2	2	6:45	7B	FISP	AB	S	2	
7/16/2020	SPF	74	2	2	6:45	7B	WIFL	AB	S	2	
7/16/2020	SPF	74	2	2	6:45	7B	AMRO	AB	S	1	
7/16/2020	SPF	74	2	2	6:45	7B	YEWA	A	S	2	
7/16/2020	SPF	74	2	2	6:45	7B	YEWA	A	S	2	
7/16/2020	SPF	74	2	2	6:45	7B	ALFL	AB	S	2	
7/16/2020	SPF	74	2	2	6:45	7B	MODO	A	S	2	
7/16/2020	SPF	74	2	2	6:45	7B	COYE	A	S	3	
7/16/2020	SPF	74	2	2	6:45	7B	SAVS	B	S	1	
7/16/2020	SPF	74	2	2	6:44	Approaching 7B	BAOR	C	FO	1	
7/16/2020	SPF	74	2	2	7:11	10A	NOCA	A	C	2	
7/16/2020	SPF	74	2	2	7:11	10A	AMGO	A	C	2	
7/16/2020	SPF	74	2	2	7:11	10A	AMGO	A	C	2	
7/16/2020	SPF	74	2	2	7:11	10A	TRES	A	I	1	
7/16/2020	SPF	74	2	2	7:11	10A	AMCR	AB	C	3	
7/16/2020	SPF	74	2	2	7:11	10A	KILL	A	C	2	
7/16/2020	SPF	74	2	2	7:11	10A	AMRO	AB	S	2	
7/16/2020	SPF	74	2	2	7:11	10A	RWBL	AB	C	1	
7/16/2020	SPF	74	2	2	7:11	10A	SOSP	AB	S	2	
7/16/2020	SPF	74	2	2	7:11	10A	SOSP	B	I	1	
7/16/2020	SPF	74	2	2	7:11	10A	AMGO	B	C	2	
7/16/2020	SPF	74	2	2	7:27	10B	RWBL	A	I	1	
7/16/2020	SPF	74	2	2	7:27	10B	BOBO	AB	S	1	
7/16/2020	SPF	74	2	2	7:27	10B	BOBO	AB	S	1	
7/16/2020	SPF	74	2	2	7:27	10B	BOBO	AB	S	2	
7/16/2020	SPF	74	2	2	7:27	10B	BOBO	AB	S	2	
7/16/2020	SPF	74	2	2	7:27	10B	BOBO	AB	S	2	
7/16/2020	SPF	74	2	2	7:27	10B	RWBL	AB	I	2	
7/16/2020	SPF	74	2	2	7:27	10B	RWBL	AB	I	2	
7/16/2020	SPF	74	2	2	7:27	10B	RWBL	AB	I	2	
7/16/2020	SPF	74	2	2	7:27	10B	RWBL	AB	I	2	
7/16/2020	SPF	74	2	2	7:27	10B	YEWA	AB	S	2	
7/16/2020	SPF	74	2	2	7:27	10B	AMRO	AB	C	1	
7/16/2020	SPF	74	2	2	7:27	10B	COGR	AB	C	2	
7/16/2020	SPF	74	2	2	7:27	10B	COGR	AB	C	2	
7/16/2020	SPF	74	2	2	7:27	10B	SAVS	A	I	2	
7/16/2020	SPF	74	2	2	7:27	10B	SAVS	A	I	2	
7/16/2020	SPF	74	2	2	7:27	10B	KING	AB	C	2	
7/16/2020	SPF	74	2	2	7:27	10B	SOSP	AB	S	2	
7/16/2020	SPF	74	2	2	7:27	10B	COYE	B	S	2	
7/16/2020	SPF	74	2	2	7:27	10B	CSWA	B	S	2	
7/16/2020	SPF	74	2	2	7:27	10B	HETH	B	S	3	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	AB	S	2	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	AB	S	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	AB	S	2	
7/16/2020	SPF	74	2	2	7:52	11A	BOBO	AB	S	2	
7/16/2020	SPF	74	2	2	7:52	11A	BOBO	AB	S	2	
7/16/2020	SPF	74	2	2	7:52	11A	BOBO	AB	S	2	
7/16/2020	SPF	74	2	2	7:52	11A	AMRO	AB	S	2	
7/16/2020	SPF	74	2	2	7:52	11A	RWBL	AB	C	2	
7/16/2020	SPF	74	2	2	7:52	11A	RWBL	AB	C	2	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	A	I	1	
7/16/2020	SPF	74	2	2	7:52	11A	AMGO	A	C	1	
7/16/2020	SPF	74	2	2	7:52	11A	COYE	A	S	2	
7/16/2020	SPF	74	2	2	7:52	11A	GRCA	A	C	3	
7/16/2020	SPF	74	2	2	7:52	11A	BARS	A	FO	1	
7/16/2020	SPF	74	2	2	7:52	11A	CORA	A	FO	2	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	SOSP	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	7:52	11A	EUST	B	I	2	
7/16/2020	SPF	74	2	2	8:25	12A	TUVU	AB	I	3	
7/16/2020	SPF	74	2	2	8:25	12A	TUVU	AB	I	3	
7/16/2020	SPF	74	2	2	8:25	12A	BARS	A	I	2	
7/16/2020	SPF	74	2	2	8:25	12A	BARS	A	I	2	
7/16/2020	SPF	74	2	2	8:25	12A	BARS	A	I	2	
7/16/2020	SPF	74	2	2	8:25	12A	BLJA	A	C	3	
7/16/2020	SPF	74	2	2	8:25	12A	YEWA	A	S	2	
7/16/2020	SPF	74	2	2	8:25	12A	SAVS	AB	I	1	
7/16/2020	SPF	74	2	2	8:25	12A	SAVS	AB	I	1	
7/16/2020	SPF	74	2	2	8:25	12A	SOSP	AB	S	2	
7/16/2020	SPF	74	2	2	8:25	12A	SOSP	AB	S	2	
7/16/2020	SPF	74	2	2	8:25	12A	AMGO	AB	S	2	
7/16/2020	SPF	74	2	2	8:25	12A	HOWR	AB	S	2	
7/16/2020	SPF	74	2	2	8:25	12A	TRES	B	I	1	
7/16/2020	SPF	74	2	2	8:25	12A	EUST	B	I	3	
7/16/2020	SPF	74	2	2	8:25	12A	EUST	B	I	3	
7/16/2020	SPF	74	2	2	8:25	12A	EUST	B	I	3	
7/16/2020	SPF	74	2	2	8:25	12A	RWBL	B	C	3	
7/16/2020	SPF	74	2	2	8:45	12B	RBGR	A	S	2	
7/16/2020	SPF	74	2	2	8:45	12B	RBGR	AB	S	3	
7/16/2020	SPF	74	2	2	8:45	12B	BCCH	AB	S	2	
7/16/2020	SPF	74	2	2	8:45	12B	HAWO	A	C	2	
7/16/2020	SPF	74	2	2	8:45	12B	NOCA	A	C	3	
7/16/2020	SPF	74	2	2	8:45	12B	BLJA	A	C	2	
7/16/2020	SPF	74	2	2	8:45	12B	EAPH	AB	S	3	
7/16/2020	SPF	74	2	2	8:45	12B	REVI	B	S	1	
7/16/2020	SPF	74	2	2	9:05	12C	BLJA	AB	C	2	

Appendix C: Breeding Bird Survey Observations

Date	Observer(s)	Temperature (°F)	Sky Code	Wind Code	Time	Location	Species <sup>1</sup>	Time Period <sup>2</sup>	Primary Activity <sup>3</sup>	Distance Class <sup>4</sup>	Notes
7/16/2020	SPF	74	2	2	9:05	12C	BLJA	AB	C	2	
7/16/2020	SPF	74	2	2	9:05	12C	BLJA	AB	C	2	
7/16/2020	SPF	74	2	2	9:05	12C	EAWP	AB	S	2	
7/16/2020	SPF	74	2	2	9:05	12C	SOSP	AB	S	1	
7/16/2020	SPF	74	2	2	9:05	12C	SOSP	AB	S	1	
7/16/2020	SPF	74	2	2	9:05	12C	EATO	AB	S	2	
7/16/2020	SPF	74	2	2	9:05	12C	SOSP	A	S	2	
7/16/2020	SPF	74	2	2	9:05	12C	NOCA	AB	C	1	
7/16/2020	SPF	74	2	2	9:05	12C	RWBL	B	S	2	
7/16/2020	SPF	74	2	2	9:05	12C	AMGO	B	C	2	
7/16/2020	SPF	74	2	2	9:05	12C	AMGO	B	C	2	

<sup>1</sup>Species Codes are based on standardized four-letter AOU alpha codes defined by the Institute for Bird Populations ([https://www.birdpop.org/docs/misc/Alpha\\_codes\\_eng.pdf](https://www.birdpop.org/docs/misc/Alpha_codes_eng.pdf)).

<sup>2</sup>Time Period codes are defined as follows: A = 0-3 min (during point count surveys); B = 3-5 min (during point count surveys); C = between point count surveys.

<sup>3</sup>Primary activity codes reflect the behavior documented for each observation that was most indicative of breeding, based on the following hierarchy: FY = feeding young; CF = carrying food or fecal sac; AN = at/in nest; NB = nest building; CO = copulation; CD = courtship display; S = singing; D = Dming; C = calling; I = individual seen flying/perching/walking but remaining within site; FO = flyover of site (continues beyond site boundaries); SNB = suspected non-breeding (e.g., if suspected migrant that is out of typical breeding range); O = other (describe using multiple lines if needed).

<sup>4</sup>Distance Codes are defined as follows: 1 = 0-50 meters; 2 = 50-100 meters; 3 = >100 meters (from observer).