Exhibit K. Diurnal Bird/Raptor Migration Survey





RESULTS OF THE DIURNAL BIRD/RAPTOR MIGRATION SURVEY REPUBLIC WIND FARM SENECA AND SANDUSKY COUNTIES, OHIO

Prepared for: Republic Wind, LLC Nordex USA, Inc. 300 South Wacker Drive Suite 1500 Chicago, IL 60606

Prepared by:
BHE Environmental, Inc.
11733 Chesterdale Rd.
Cincinnati, OH 45246-4131
Phone: 513.326.1500
www.bheenvironmental.com

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EXECUTIVE SUMMARY

BHE Environmental, Inc. (BHE) was contracted to complete diurnal bird/raptor migration surveys following methods described in the *On-Shore Bird and Bat Pre- and Post-Construction Monitoring Protocol for Commercial Wind Energy Facilities in Ohio* issued by the Ohio Department of Natural Resources, Division of Wildlife. This report provides data and analysis of results of the diurnal bird/raptor migration surveys conducted by BHE in spring (March 17 through April 30) and fall (September 4 through October 28) 2011. Surveys were conducted by BHE at the proposed Republic Wind Farm project in Seneca and Sandusky counties, Ohio.

A total of 52 species were identified during the migration surveys, including the state-listed endangered northern harrier (*Circus cyaneus*) and sandhill crane (*Grus canadensis*); state threatened osprey (*Pandion haliaetus*) and bald eagle (*Haliaeetus leucocephalus*); and state species of special interest northern pintail (*Anas acuta*). Northern harriers were observed multiple times (13) during the course of the diurnal bird/raptor migration survey; bald eagles were observed four times, and several (18) northern pintails were observed. The remaining two species were observed a single time each.

Due to the limited size of woodlots, wetlands, open water, and potential stopover sites present, and due to an availability of similar habitat in northwestern Ohio, the Project Area does not represent a unique resource for large numbers of diurnal birds and raptors during migration. Diurnal bird/raptor migration monitoring confirmed limited avian migrant use.

The bald eagle was observed during the migration survey. This species is protected by the Bald and Golden Eagle Protection Act. Three bald eagle nests are located within 2.25 miles of the Project Area. The only successful nest in 2011 was located near the proposed power line and is more than 5 miles from the nearest proposed turbine location. In addition, the US Fish and Wildlife Service records indicate 20 bald eagle nests have been documented within 10 miles of the Project boundary. Additional studies on eagle use of the Project Area are ongoing.

1.0 INTRODUCTION

Republic Wind Farm, LLC, a subsidiary of Nordex USA, Inc. (Nordex), proposes construction of the Republic Wind Farm (RWF or Project Area) wind energy generation facility in Seneca and Sandusky counties, Ohio. The Project Area spans approximately 39,627 acres (ac; 16,036 hectares [ha]) northeast of the town of Republic, Ohio (Figure 1). The Project Area represents the maximum area considered for placement of turbines and facility infrastructure. The layout and number of turbines has not yet been selected; however, the actual area disturbed by the turbines and access roads that will comprise the facility will be a very small percentage of the Project Area (less than 1 percent).

BHE Environmental, Inc. (BHE) was contracted by Nordex to conduct diurnal bird/raptor migration surveys at the proposed RWF according to specifications outlined in the Ohio Department of Natural Resources (ODNR) On-Shore Bird and Bat Pre- and Post-Construction Monitoring Protocol for Commercial Wind Energy Facilities in Ohio, An Addendum to the Ohio Department of Natural Resource's Voluntary Cooperative Agreement ("Ohio Protocol"). The purpose of this report is to document the results of the survey.

Raptor collision rates at modern wind farms outside of California are small (NAS 2007; NWCC 2010). Raptors may be affected by wind power development in several ways, including: a) collisions with operating turbine rotors or blades; b) habitat disturbance resulting from construction or new infrastructure on site; and c) disturbance from increased human activity in the vicinity of the turbines. Collision mortality risk on raptor populations are often evaluated because raptors are not numerous and typically reproduce and mature slowly; thus, in contrast to passerine species, raptors cannot absorb mortalities and recover from losses on an annual basis as easily (Kuvlesky et al. 2007).

2.0 METHODS

2.1 DIURNAL BIRD / RAPTOR MIGRATION SURVEY

In order to gauge the rate at which diurnal birds and raptors could potentially come into conflict with wind turbines at RWF, BHE conducted day-long (9:00 a.m. to 4:00 p.m.) diurnal bird/raptor migration surveys three times a week during seasonally favorable weather for migration (northerly winds in fall, southerly winds in spring). The surveys were made from three observation points that afforded largely unobstructed views and were placed in the north, central, and south portions of the Project Area (Figure 1). Point 2 was moved during the spring of 2011 to a location between the Project area and the bald eagle nest south of the Project Area to better determine whether bald eagles from this nest were using the Project Area (Figure 1). Due to species-specific differences in migration, 20 days of surveys were conducted in spring (March 17 through April 30) and 22 days of surveys were completed during fall (September 4 through October 28) 2011. During surveys, migrants were identified to species, and whenever possible, the sex and age class of individuals was recorded. Using the data sheet provided in the Ohio Protocol, the surveyor also recorded the number of individuals, the approximate height of flight, whether the migrant(s) entered the Project Area, an estimate of the time they spent in the rotor-swept zone (between 40 and 180 meters above ground), and general behaviors observed (e.g., foraging, circling in updraft).

3.0 RESULTS

3.1 BIRD MIGRATION

Land use of the Project Area is dominated by cropland (Table 1). The types of birds observed were consistent with the agricultural uses. A total of 12,337 birds were observed from 52 species during migration surveys (Table 2). Forty-six percent of birds were observed during spring surveys (5,725 individuals from 40 species) and 54 percent were observed during fall surveys (6,612 individuals from 40 species; Appendix A).

Red-winged blackbirds (*Agelaius phoeniceus*), European starlings (*Sturnus vulgaris*), and common grackles (*Quiscalus quiscula*) comprised over half of the birds observed. Red-winged blackbirds were the most numerous birds, observed at an average of 119 birds per day for a total of 4,986 birds. European starlings were recorded at an average of 47 birds per day and common grackles at an average of 33 birds per day; 1,974 and 1,376 total birds, respectively. The majority (80 percent [6,614]) of blackbirds, starlings, and grackles observed were at low heights (0 to 40 meters above ground), with 20 percent (1,725) observed between 40 and 180 meters above ground. A flock of Bonaparte's gulls (*Chroicocephalus philadelphia*; 62 birds) observed between 40 and 180 meters on April 7, 2011 was the only other large flock of birds outside of blackbirds, starlings, and grackles.

3.2 SENSITIVE SPECIES AND RAPTOR MIGRATION

Results of the diurnal bird/raptor migration surveys showed limited use of the Project Area by avian species of conservation concern. Two flocks of northern pintails (Anas acuta; 18 total birds) were observed during the spring surveys, both flocks were observed between 40 and 180 meters above ground level. A single sandhill crane (Grus canadensis) was observed during spring surveys, and a single osprey (Pandion haliaetus) was observed during autumn surveys. The sandhill crane was observed low to the ground (less than 40 meters above ground level) and the osprey was observed above the rotor-swept zone (higher than 180 meters above ground level). Northern harriers were observed using the Project Area multiple times during both the spring (10 observations) and autumn (three observations) surveys, averaging 0.30 birds per day. Northern harriers were frequently observed flying in their characteristically close-to-the-ground manner. Out of the 13 total observations, only one bird was observed flying within the rotor-swept zone. Four bald eagles were observed during the spring migration surveys. Three of the observations occurred in the northwestern portion of the Project Area, each of these observations were of a juvenile bird flying between 40 and 180 meters above the ground. A single observation of an adult bird occurred in the southern portion of the Project Area flying between 40 and 180 meters above the ground (Table 3; Appendix A). The average observations per day during the survey were 0.10 birds per day.

Five other species of raptor were observed during the migration surveys. The most common species observed was the turkey vulture (*Cathartes aura*). The highest count in a single day was 16 turkey vultures observed on April 11, 2011. Sightings of turkey vultures averaged 12.55 birds per day for a total of 527 birds. The second most common species observed was the red-tailed hawk (*Buteo jamaicensis*). Red-tailed hawks were observed an average of 1.7 birds per day for a total of 71 birds. Red-tailed hawks were observed soaring at heights ranging from just about the ground to higher than 180 meters above ground. They were also observed perched on telephone poles and in the few trees located on the Project Area. Other raptor species observed include: Cooper's hawk (*Accipiter cooperii*; 28 birds, 0.66

Table 1. National land use/land cover acreages in the Republic Wind, LLC Project Area, Seneca and Sandusky Counties Ohio.

Land Use	Acres	Percent
Cultivated Crops	33,571.5	84.7%
Deciduous Forest	3,012.7	7.6%
Developed, Open Space	2,101.0	5.3%
Hay/Pasture	425.0	1.1%
Herbaceous	209.96	0.5%
Developed, Low Intensity	136.6	0.3%
Open Water	116.1	0.3%
Woody Wetlands	32.0	0.1%
Emergent Herbaceous Wetlands	10.5	<0.1%
Developed, Medium Intensity	8.3	<0.1%
Evergreen Forest	3.2	<0.1%
Total	39,626.6	100.0%

Table 2. Bird species observed during the Republic Wind Farm Diurnal Bird/Raptor Migration Survey.

Camping Manage	Carata Nama		Birds O	bserved	
Common Name	Species Name	Spring	Autumn	Birds/Day^	Total
Red-winged Blackbird	Agelaius phoeniceus	1212	3774	118.71	4986
European Starling	Sturnus vulgaris	1094	880	47.00	1974
Common Grackle	Quiscalus quiscula	1183	196	32.83	1379
American Crow	Corvus brachyrhynchos	256	498	17.95	754
American Robin	Turdus migratorius	478	67	12.98	545
Turkey Vulture	Cathartes aura	407	120	12.55	527
Horned Lark	Eremophila alpestris	228	69	7.07	297
House Sparrow	Passer domesticus	0	225	5.36	225
Canada Goose	Branta canadensis	66	156	5.29	222
Killdeer	Charadrius vociferus	166	49	5.12	215
Brown-headed Cowbird	Molothrus ater	182	19	4.79	201
Mourning Dove	Zenaida macroura	35	164	4.74	199
Eastern Bluebird	Sialia sialis	21	93	2.71	114
Bonaparte's Gull	Chroicocephalus philadelphia	81	0	1.93	81
American Goldfinch	Spinus tristis	12	61	1.74	73
Red-tailed Hawk	Buteo jamaicensis	60	11	1.69	71
Duck sp.	N/A	60	0	1.43	60
Blue Jay	Cyanocitta cristata	5	52	1.36	57
Song Sparrow	Melospiza melodia	11	35	1.10	46
Ring-billed Gull	Larus delawarensis	0	34	0.81	34

Table 2. Bird species observed during the Republic Wind Farm Diurnal Bird/Raptor Migration Survey.

Constitution Name	Parada Nasa		Birds O	bserved	
Common Name	Species Name	Spring	Autumn	Birds/Day^	Total
Cedar Waxwing	Bombycilla cedrorum	0	32	0.76	32
Cooper's Hawk	Accipiter cooperii	26	2	0.67	28
Mallard	Anas platyrhynchos	19	8	0.64	27
Pectoral Sandpiper	Calidris melanotos	23	0	0.55	23
Barn Swallow	Hirundo rustica	20	0	0.48	20
Northern Pintail*	Anas acuta	18	0	0.43	18
Northern Harrier*	Circus cyaneus	10	3	0.31	13
Great Blue Heron	Ardea herodias	5	7	0.29	12
Northern Flicker	Colaptes auratus	2	10	0.29	12
American Kestrel	Falco sparverius	5	5	0.24	10
Eastern Meadowlark	Sturnella magna	10	0	0.24	10
Northern Cardinal	Cardinalis cardinalis	0	10	0.24	10
American Pipit	Anthus rubescens	3	6	0.21	9
Tree Swallow	Tachycineta bicolor	1	7	0.19	8
Wood Duck	Aix sponsa	8	0	0.19	8
Rock Pigeon	Columba livia	3	3	0.14	6
Bald Eagle*	Haliaeetus leucocephalus	4	0	0.10	4
Chipping Sparrow	Spizella passerina	4	0	0.10	4
Savannah Sparrow	Passerculus sandwichensis	1	3	0.10	4
Wild Turkey	Meleagris gallopavo	2	2	0.10	4
Belted Kingfisher	Ceryle alcyon	0	2	0.05	2
Pileated Woodpecker	Dryocopus pileatus	1	1	0.05	2
Red-headed Woodpecker	Melanerpes erythrocephalus	0	2	0.05	2
Downy Woodpecker	Picoides pubescens	0	1	0.02	1
Field Sparrow	Spizella pusilla	1	0	0.02	1
Osprey*	Pandion haliaetus	0	10	0.02	1
Red-bellied Woodpecker	Melanerpes carolinus	0	1	0.02	1
Red-shouldered Hawk	Buteo lineatus	1	0	0.02	1
Sandhill Crane*	Grus canadensis	1	0	0.02	1
Short-billed Dowitcher	Limnodromus griseus	0	11	0.02	1
Tufted Titmouse	Baeolophus bicolor	0	1	0.02	1
White-breasted Nuthatch	Sitta carolinensis	0	-1	0.02	1
A CONTRACTOR OF THE CONTRACTOR	otal	5,725	6,612	n/a	12,337

^{^42} observation days

^{*}Listed by the State of Ohio, see Table 3.

Table 3. Bird species listed by the State of Ohio and recorded during the Republic Wind Farm Diurnal Bird/Raptor Migration Survey.

Common Name	Ohio Listed Species Classification	Total Number of Birds Observed
Northern Pintail	Species of Special Interest	18
Bald Eagle	Threatened	4
Osprey	Threatened	1
Northern Harrier	Endangered	13
Sandhill Crane	Endangered	1

birds/day); American kestrel (*Falco sparverius*; 10 birds, 0.23 birds/day); and red-shouldered hawk (*Buteo lineatus*; 1 bird, 0.02 birds/day).

All data collected during the spring and fall migration surveys are in Appendix A.

4.0 DISCUSSION

Bird migration is commonly perceived as involving north-south movements of populations on a large scale, typically associated with seasons. However, there are many types of migratory behavior; some are simple, others more complex. Most seasonal movement between northern and southern climes follows a system of flyways and these flyways are loosely defined by geographical features. These physical features include coasts, river valleys, and mountain ranges, and together form the four major North American migratory corridors: the Atlantic, Mississippi, Central, and Pacific flyways. The Project Area lies along the eastern edge of the Mississippi flyway which also includes, although to a lesser extent, the Ohio River Valley and tributaries. The Project Area also lies along known pathways of raptor migration both in the spring and the fall (Appendix B).

The Project Area is largely covered with row crops and does not contain features known to attract large concentrations of migrating birds, i.e., lakes, rivers, large streams, large wetlands, topographic ridges, large forests, or large grasslands (see Appendix C for site photos). However, several woodlots and tree lines of various sizes are interspersed throughout the Project Area. Based upon observations of diurnally-migrating birds and raptors, the Project Area does not appear to be an important diurnal bird and raptor migratory pathway. Large flocks observed using the area consisted of common species (blackbirds, grackles, and starlings) and listed species were not recorded in large numbers.

Several (18) northern pintails were observed flying within the rotor-swept zone during the spring migration surveys. Northern harriers were observed using the Project Area multiple times during spring (10 observations) and autumn (three observations) surveys, but their low-to-the-ground flight pattern largely avoids the rotor-swept zone, suggesting that collision risk is low. Four bald eagles were observed during the spring migration surveys. Additional studies on potential eagle use of the Project Area are ongoing through March 2013 to further evaluate risk.

Mortality studies at operational wind farms outside of California have shown relatively low raptor fatality rates (NRC 2007; NWCC 2010). Of the studies reviewed by the National

Research Council (NRC 2007), 14 were conducted using a survey protocol for all seasons of occupancy for a one-year period and incorporated scavenging and searcher-efficiency biases into estimates. The combined average raptor mortality for the 14 studies was 0.03 raptors/turbine/year and 0.04 raptors/megawatt/year. In a review of bird collisions documented in 31 studies at wind-energy facilities outside California, Erickson et al. (2001) reported that diurnal raptors comprised 2.7 percent of avian fatalities, while 78 percent of birds killed were protected songbirds. In a 3-year study conducted at a 354-turbine facility in Buffalo Ridge, Minnesota, Johnson et al. (2002) found that of 55 documented fatalities, only one was a raptor (red-tailed hawk; 1.8 percent of fatalities; 0.0009/turbine/year). When examined by region (East, Midwest, Pacific Northwest, and Rocky Mountain), raptor fatalities resulting from collision with wind turbines were found to be lowest in the Midwest (NRC 2007).

5.0 CONCLUSIONS

Due to the limited size of woodlots, wetlands, open water, and potential stopover sites present, and due to an availability of similar habitat in northwestern Ohio, the Project Area does not appear to represent a unique resource for large numbers of migratory diurnal birds and raptors. Diurnal bird/raptor migration monitoring and raptor nest searches confirmed limited avian migrant use.

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FIGURES

BHE Environmental, Inc.

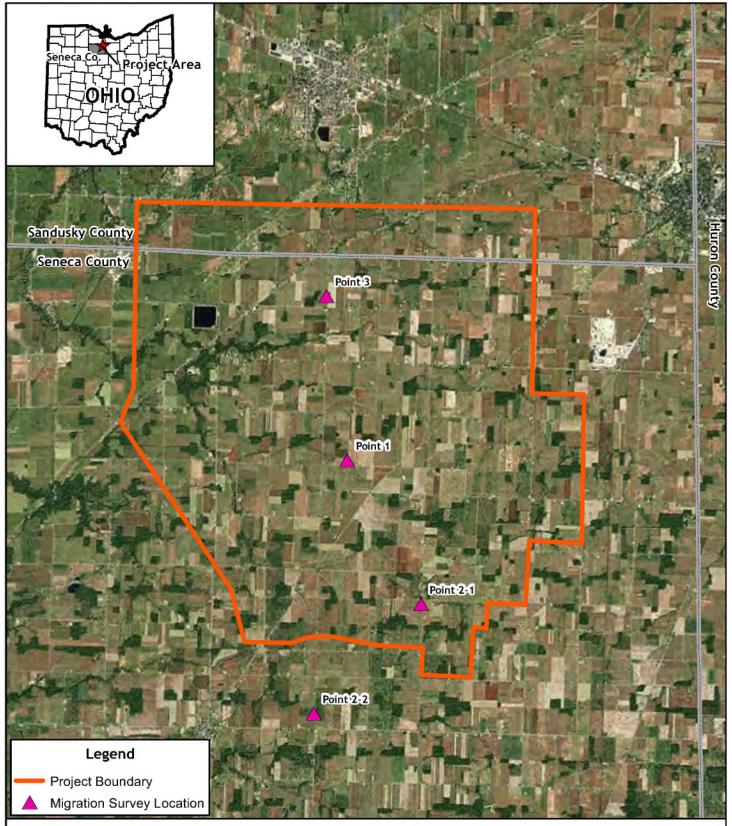
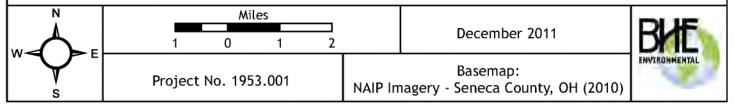


Figure 1. Diurnal Bird/Raptor Migration Survey Locations for the Republic Wind Farm Project Area, Seneca and Sandusky counties, Ohio.



APPENDIX A Diurnal Bird/Raptor Migration Survey Observations

Date	Point	Season	Code	Species	#	Age	900	Observation	Circling	Entered Project Area	Estimated time within rooter
							Height	Direction	(yes/no)	(ves/no)	area
		Spring	COGR	Common Grackle	90		0 - 40 m	South	92	yes	Y
		Spring	COGR	Common Grackle	2		0 - 40 m	East	na	yes	7
		Spring	AMRO	American Robin	1		0 - 40 m	South	DU	yes	
		Spring	MODO	Mourning Dove	T		0-40 m	Northwest	DU	yes	,
		Spring	COGR	Common Grackle	1		40 - 180 m	West	no	sak	15 min
		Spring	EUST	European Starling	7		40 - 180 m	West	01	səA	Smin
		Spring	AMCR	American Crow	1		0-40 m	Southwest	DU	yes	
		Spring	AMCR	American Grow	1		0-40 m	Northwest	DO	yes	1
		Spring	RWBL	Red-winged Blackbird	m		0 - 40 m	Northwest	yes	yes	1
		Spring	AMRO	American Robin	12		0-40 m	South	00	yes	Y
		Spring	RWBL	Red-winged Blackbird	30		0-40 m	West	DO	yes	r
		Spring	EUST	European Starling	9		0-40 m	Southeast	no	sav	,
		Spring	COGR	Common Grackle	4		40-180 m	East	00	ves	2 min
		Spring	AMRO	American Robin	1		0-40m	North	DU	, Aes	
		Spring	RWBL	Red-winged Blackbird	7		0-40m	Northwest	OU	Ves	
		Spring	AMRO	American Robin	1		0-40 m	Southwest	OU	yes	Y
		Spring	COGR	Common Grackle	30		0-40 m	Southeast	yes	yes	1
		Spring	RWBL	Red-winged Blackbird	30		0-40m	Southeast	yes	ķes	
		Spring	COGR	Common Grackle	7		0 - 40 m	Southeast	no	yes	7
		Spring	AMRO	American Robin	н		0 - 40 m	South	00	yes	,
		Spring	RWBL	Red-winged Blackbird	14		0 - 40 m	Southeast	00	yes	,
		Spring	HOLA	Homed Lark	5		0 - 40 m	South	ou	yes	
		Spring	KILL	Killdeer	1		0-40 m	Northwest.	ou	yes	
***	,	Spring	RWBL	Red-winged Blackbird	9		0-40 m	East/Southeast	00	yes	Y
TY-INIGI-TT	4	Spring	NOHA	Northern Harrier	1	Adult	0 - 40 m	Northwest	sak	sak	hunting
		Spring	COGR	Common Grackle	2		0 - 40 m	South	no	yes	
		Spring	COGR	Common Grackle	00		0-40 m	Southwest	DO	yes	Y
		Spring	TUVU	Turkey Vulture	T	Adult	0 - 40 m	Northeast	yes	yes	7
		Spring	AMRO	American Robin	т.		0 - 40 m	Southwest	OU	yes	
		Spring	TUVU	Turkey Vulture	Ţ	Adult	40 - 180 m	Northeast	yes	sek	8 min
		Spring	AMCR	American Crow	2		0 - 40 m	West	na	seA	
		Spring	AMCR	American Crow	∞		0 - 40 m	Northwest	0	sak	
		Spring	AMRO	American Robin	20		40 - 180 m	Northeast	no	yes	2 min
		Spring	AMCR	American Crow	4	1000	0 - 40 m	Southwest	DO:	sək	
		Spring	TUVU	Turkey Vulture	1	Adult	0 - 40 m	East/Northeast	yes	yes	3 min
		Spring	TUVUT	Turkey Vulture	7	Adult	0 - 40 m	South/Southeast	па	sak	
		Spring	COGR	Common Grackle	10	ALC: U	40 - 180 m	West/Northwest	DO	seA	1 min
		Spring	RWBL	Red-winged Blackbird	10		40 - 180 m	West/Northwest	na	sex	1 min
		Spring	GBHE	Great Blue Heron	, ,		40 - 180 m	North	OU	yes	3 min
		Spring	TUVU	Turkey Vulture	1		0-40 m	East/Southeast	yes	yes	
		Spring	EUST	European Starling	9		0-40 m	South	OU	yes	
		Spring	AMRO	American Robin	1		0 - 40 m	East	ou	yes	
		Spring	TUVU	Turkey Vulture			40 - 180 m	North/Northeast	yes	yes	2 min
		Spring	EUST	European Starling	.5	-	0 - 40 m		1	10	
		Spring	HOLA	Horned Lark	3		0 - 40 m	South	na	sex	
		Spring	RWBL	Red-winged Blackbird	10		40 - 180 m	East/Northeast	yes	yes	2 min
		Spring	COGR	Common Grackle	10		40 - 180 m	East/Northeast	yes	sak	2 min
		Spring	EUST	European Starling	9		40 - 180 m	East	ng	, yes	1 min

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date P	Point	Season	Code	Species	#	Age	Opse	Observation	Circling	Entered Project Area	Estimated time within rooter
					-		Height	Direction	(yes/no)	(yes/no)	area
	15	Spring	TUVU	Turkey Vulture	1	1	0-40 m	East/Northeast	yes	sak	2 min
	S	Spring	COGR	Common Grackle	1		0-40 m	North	DU	yes	1
	Sc	Spring	AMRO	American Robin	1		0-40 m	South	DU	yes	,
	S	Spring	KILL	Killdeer	00		0-40m	East	ves	ves	(
	S	Spring	TUVUT	Turkey Vulture	6		0 - 40 m	North/Northeast	ves	ves	1
	S	Spring	TUVU	Turkey Vulture	2		>180 m	Southwest	ves	ves	4 min
	Sc	Spring	HOLA	Homed Lark	1		0 - 40 m	Southwest	00	ves	1
	S	Spring	COGR	Common Grackle	1		0 - 40 m	Northwest	00	yes	7
	S	Spring	COGR	Common Grackle	m		0-40m	South/Southeast	uo	ves	
	S	Spring	TUVU	Turkey Vulture	2		40 - 180 m	North/Northeast	Sav	sax	3 min
	35	Soring	AMCR	American Crow	2		0-40 m	South	DO.	sen	
	25	Spring	COGR	Common Grackle	+		0 - 40 m	South	00	>	
	S	Spring	RWBL	Red-winged Blackbird	4		0 - 40 m	Northwest	OU	sex	
	S	Soring	TUVU	Turkey Vulture			40 - 180 m	Northeast	DO	Selv	2 min
	25	Soring	NOHA	Northern Harrier	1		40 - 180 m	North/Northwest	ves	Ves	1 min
	3	Soring	TUVU	Turkey Vulture			0-40 m	East/Northeast	Selv	S	
	5	Spring	TUVU	Turkey Volture	4		40 - 180 m	South	SdA	3	4 min
	5	Soring	RTHA	Red-tailed Hawk	-		40 - 180 m	North	SdA	y day	2 min
	S	Soring	COGR	Common Grackle	15		40 - 180 m	Southwest	00	Sey	1 min
	35	Soring	EUST	European Starling	12		0-40 m	West	DO.	Ves	
	S	Spring	KILL	Kildeer	П		0 - 40 m	South	2	vės	
	S	Spring	AMCR	American Crow	1		0-40 m	North/Northeast	ou	yes	7
	S	Spring	TUVU	Turkey Vulture	ī	Ī	0-40 m	West	yes	yes	
		Spring	TUVU	Turkey Vulture	1		40 - 180 m	West	sak	, kes	2 min
17-Mar-11	ds T	Spring	KILL	Killdeer	1		0 - 40 m	North/Northwest	no	yes	
	S	Spring	TUVU	Turkey Vulture	H		0-40 m	West/Southwest	yes	yes	i
	S	Spring	AMCR	American Crow	1		0 - 40 m	West	ou	yes	Y
	S	Spring	RTHA	Red-tailed Hawk	н		40 - 180 m	North/Northwest	yes	yes	2 min
	S	Spring	KILL	Killdeer	Ţ		0 - 40 m	South/Southwest	ou	yes	
	3	Spring	TUVU	Turkey Vulture	1		40 - 180 m	East/Northeast	sak	sex.	1 min
	S	Spring	KICL	Killdeer	1		0 - 40 m	South	00	yes	y
	S	Spring	EUST	European Starling	09	-	0 - 40 m	West/Northwest	sak	sek	
	S	Spring	TUVU	Turkey Vulture	H		0 - 40 m	East	sak	səA	1
	35	Spring	EUST	European Starling	15		0 - 40 m	West/Southwest	OU	yes	,
	S	Spring	AMCR	American Crow	2		0 - 40 m	North	na	yes	0
	35	Spring	AMRO	American Robin	9		0 - 40 m	South/Southwest	no	yes	
	35	Spring	RWBL	Red-winged Blackbird	10		0 - 40 m	Northeast	na	, sex	
	S	Spring	TUVU	Turkey Vulture	1		0 - 40 m	Northeast	sak	sak	Y
	S	Spring	COGR	Common Grackle	r		0 - 40 m	West	na	sex	100
	S	Spring	TUVU	Turkey Vulture	1		40 - 180 m	North	yes	yes	2 min
	S	Spring	AMCR	American Crow	7		40 - 180 m	South	2	yes	1 min
	S	Spring	AMCR	American Crow	1		0 - 40 m	West/Northwest	no.	yes	
	S	Spring	BHCO	Brown-headed Cowbird	25		40 - 180 m	Northeast	ОП	, sex	2 min
	35	Spring	COGR	Common Grackle	25.		40 - 180 m	Northeast	na	sek	2 min
	Š	Spring	EUST	European Starling	25		40 - 180 m	Northeast	ОП	yes	2 min
	S	Spring	TUVU	Turkey Vulture	2	-	40 - 180 m	Northeast	yes	yes	1 min
	15	Spring	TUVU	Turkey Vulture	3		40 - 180 m	Northeast	yes	yes	2 min
	1S	Spring	TUVU	Turkey Vulture	1.	Ī	40 - 180 m	Southwest	yes	seA	3 min.

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age		COSE ABOOT		bannafar (marana	
							Height	Direction	(yes/no)	(hes/no)	area
		Spring	KILL	Killdeer	2		0 - 40 m	East	yes	yes	
		Spring	TUVU	Turkey Vulture	1	Ī	40 - 180 m	South	yes	yes.	3 min
		Spring	RWBL	Red-winged Blackbird	15		40 - 180 m	East/Northeast	DU	yes	1 min
		Spring	COGR	Common Grackle	15	T	40 - 180 m	East/Northeast	no	yes	1min
		Spring	RWBL	Red-winged Blackbird	7		40 - 180 m	East	OU	yes	2 min
		Spring	COGR	Common Grackle	12		0 - 40 m	East	92	yes	r
	.,	Spring	EUST	European Starling	20		0 - 40 m	Northeast	yes	yes	3 min
		Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	Northeast	yes	yes	4 min
		Spring	TUVU	Turkey Vulture	m		40 - 180 m	Northeast	yes	yes	3 min
1/-Mar-11	4	Spring	KILL	Killdeer	1		0 - 40 m	South	2	ves	
		Spring	TUVU	Turkey Vulture	ri		40 - 180 m	North/Northeast	sak	ves	2 min
		Spring	TUVU	Turkey Vulture	Ŧ		0 - 40 m	North/Northwest	ves	ves	1
		Spring	RTHA	Red-talled Hawk	н		40 - 180 m	West/Southwest	sex	ves	2 min
		Soring	TOVO	Turkey Vulture	,		40 - 180 m	West/Southwest	Ves	ves	3 min
		Spring	TUVU	Turkey Vulture	2		40 - 180 m	East/Southeast	ves	Ves	4 min
		Soring	TUVU	Turkey Vulture	F		0-40 m	South	SelA	Sey.	
		Spring	TUVU	Turkey Vulture			0 - 40 m	Fact	SdA	500	
	- 23	Soring	TUVU	Turkey Vulture	1		0 - 40 m	North/Northeast	ves	Ves	
		Spring	COGR	Common Grackle	15		0 - 40 m	North/Northwest	DU	ves	,
		Spring	EUST	European Starling	15		0 - 40 m	North/Northwest	2	ves	,
		Spring	AMRO	American Robin	7		40 - 180 m	East/Northeast	no	yes	
		Spring	COGR	Common Grackle	12		40 - 180 m	East	92	yes	1 min
		Spring	AMRO	American Robin	1		0 - 40 m	South	2	yes	
		Spring	COGR	Common Grackle	ú		0 - 40 m	East/Northeast	00	yes	Y
		Spring	AMRO	American Robin	7		0 - 40 m	South	ОП	yes	
		Spring	CAGO	Canada Goose	6		40 - 180 m	West	DO	yes	2 min
		Spring	CAGO	Canada Goose	4		40 - 180 m	North/Northeast	2	yes	2 min
		Spring	KILL	Killdeer	2		0 - 40 m	North	no	yes	1
		Spring	AMRO	American Robin	1		0-40 m	North	OU	yes	100
		Spring	EUST	European Starling	4		0-40 m	East	DO.	yes	
		Spring	COGR	Common Grackle	7		0 - 40 m	Northeast	OU	yes	X
		Spring	AMRO	American Robin	8		0 - 40 m	West	ОП	yes	
		Spring	KILL	Killdeer	1		40 - 180 m	West	DU	yes	2 min
18-Mar-11	7	Spring	COGR	Common Grackle	3		40 - 180 m	Southwest	DO.	yes	1 min
		Spring	COGR	Common Grackle	5		0 - 40 m	South	no	yes	
		Spring	\$05P	Song Sparrow	Ŧ		0 - 40 m	Southeast	OU	yes	
		Spring	AMRO	American Robin	4		0 - 40 m	Northwest	DO	yes	-
		Spring	COGR	Common Grackle	3		40 - 180 m	East/Northeast	DU	yes	
		Spring	KILL	Killdeer	1		0 - 40 m	North/Northeast	2	yes	1
		Spring	COGR	Common Grackle	2		0 - 40 m	North	2	yes	,
		Spring	MODO	Mourning Dove	2		0-40 m	North/Northwest	OU	yes	7
		Spring	AMRO	American Robin	2		0 - 40 m	Northwest	OL.	yes	
		Spring	COGR	Common Grackle	2		40 - 180 m	West/Northwest	ng	yes	1 min
		Spring	HOLA	Horned Lark	4		0 - 40 m	South	0	yes	
		Spring	COGR	Common Grackle	4		0 - 40 m	Northwest	no	yes	
		Spring	COGR	Common Grackle	2		0 - 40 m	East	00	yes	-
		Spring	EUST	European Starling	1		0 - 40 m	West	DU	yes	,
		Spring	COGR	Common Grackle	4		0 - 40 m	North/Northwest	90	yes	Y
		Spring	RWBL	Red-winged Blackbird	7		0 - 40 m	Northwest	no	yes	0

Diumal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date P	Point	Season	Code	Species	*	Age	Meight	Observation	Circling (ves/no)	Entered Project Area	Estimated time within rooter
	1		asos	Common Connello	3.	-	40 100 -	Northwest	in land	lan land	
	0 4	Bunde	COGR	COMMUNICATION OF ACRIE	7	Ì	40- TOO W	Northwest	D.	Ves	
	S	Spring	RWBL	Red-winged Blackbird	2		40 - 180 m	Northwest	92	yes	Ye
	S	Spring	COGR	Common Grackle	1		0-40 m	West	nd	yes	
	S	Spring	AMRO	American Robin	Ť		0 - 40 m	Southwest	no	yes	9
	N,	Spring	COGR	Common Grackle	e e		0 - 40 m	Southeast	00	yes	1
	S	Spring	RWBL	Red-winged Blackbird	4		0 - 40 m	North/Northwest	DU	yes	1 min
	S	Spring	COGR	Common Grackle	1		40 - 180 m	West/Northwest	92	yes	1 min
	S	Spring	COGR	Common Grackle	1	-	40 - 180 m	East/Southeast	no	yes	2 min
	Ś	Spring	KILL	Killdeer	1	Ì	0 - 40 m	East	00	yes	,
	S	Spring	EUST	European Starling	2		0 - 40 m	West	01	, ves	
	S	Spring	COGR	Common Grackle	T		0-40 m	Northwest	ou	ves	,
	S	Spring	TUVU	Turkey Vulture	8		40 - 180 m	Northeast	ves	ves	3 min
	S	Spring	RWBL	Red-winged Blackbird	2		0 - 40 m	North	ou	yes	
	S	Spring	COGR	Common Grackle	2		0-40 m	South/Southeast	OU	yes	
	Ś	Spring	AMCR	American Crow	1		0 - 40 m	Southwest	ou	yes	
	S	Spring	COGR	Common Grackle	00		40 - 180 m	Northwest	na	yes	1 min
	S	Spring	RWBL	Red-winged Blackbird	10		40 - 180 m	South	00	, ves	2 min
	S	Spring	TUVU	Turkey Vulture	T.		40 - 180 m	East	yes	yes	2 min
	S	Spring	HOLA	Horned Lark	7		0-40 m	North	no	yes	1
	S	Spring	AMCR	American Crow	2		0 - 40 m	North	00	yes	,
	S	Spring	COGR	Common Grackle	9		40 - 180 m	South	00	yes	3 min
	S	Spring	KILL	Killdeer	1		0 - 40 m	Southeast	na	yes	
	S	Spring	TUVU	Turkey Vulture	3		40 - 180 m	Northeast	yes	yes	1
	S	Spring	COGR	Common Grackle	2		0 - 40 m	Northwest	ОП	yes	Y
18-Mar-11	1 5	Spring	COGR	Common Grackle	20	-	0 - 40 m	South	yes	yes	
	S	Spring	EUST	European Starling	200		0-40 m	South	yes	yes	
	(V)	Spring	BHCO	Brown-headed Cowbird	20		0 - 40 m	South	yes	yes	,
	S	Spring	EUST	European Starling	12		0 - 40 m	Northwest	DO	yes	Y
	S	Spring	KILL	Killdeer	Ţ		0 - 40 m	East	DO.	yes	11
	S	Spring	EUST	European Starling	80		40 - 180 m	West	na	yes	1 min
	S	Spring	RWBL	Red-winged Blackbird	10		0 - 40 m	Northwest	00	yes	X
	S	Spring	RWBL	Red-winged Blackbird	80		0 - 40 m	North	pu	yes	
	S	Spring	NOFL	Northern Flicker	2		0 - 40 m	West	OU	yes	,
	S	Spring	TUVU	Turkey Vulture	1		40 - 180 m	West	yes	yes	2 min
	S	Spring	RTHA	Red-tailed Hawk	H	Ī	40 - 180 m	Southeast	yes	ou	3 min
	S	Spring	KILL	Killdeer	1		0 - 40 m	Northeast	DU.	yes	
	V)	Spring	TUVU	Turkey Vulture	3		40 - 180 m	East/Northeast	yes	yes	2 min
	S	Spring	WODU	Wood Duck	2		40 - 180 m	West/Southwest	OL.	yes	1 min
	S	Spring	TUVU	Turkey Vulture	4	-	40 - 180 m	East	ves	no	2 min
	S	Spring	COGR	Common Grackle	20		40 - 180 m	North/Northeast	no	yes	2 min
	S	Spring	EUST	European Starling	20	Ī	40 - 180 m	North/Northeast	DO	yes	2 min
	N.	Spring	AMGO	American Goldfinch	1		0 - 40 m	Northwest	no	yes	
	S	Spring	COGR	Common Grackle	H.		0 - 40 m	Northwest	00	yes	10
	S	Spring	COGR	Common Grackle	12		40 - 180 m	West	na	hes	2 min
	S	Spring	EUST	European Starling	2	Ī	0 - 40 m	Northwest	00	yes	Y
	S	Spring	RTHA	Red-tailed Hawk	1,	-	40 - 180 m	Southwest	yes	yes	2 min
	S	Spring	AMCR	American Crow	T		40 - 180 m	East/Southeast	00	yes	1 min
	S	Spring	COGR	Common Grackle	909		40 - 180 m	East/Northeast	yes	yes	2 min
	9	Spring	EUST	European Starling	20		40 - 180 m	East/Northeast	ves	ves	2 min

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	-	COSE SECON	Sill Control	בוויבובת בוסובת שובם	ESTIMATE THE WITH LOCKE
							Height	Direction	(ou/sak)	(hez/no)	area
		Spring	EUST	European Starling	4		0 - 40 m	West	na	yes	
		Spring	AMRO	American Robin	1		0-40 m	West	00	yes.	111
		Spring	AMCR	American Crow	1		0-40 m	South/Southwest	DU	yes	17
		Spring	EUST	European Starling	10		0-40 m	North/Northwest	ou	yes	
		Spring	AMRO	American Robin	Ŧ		0 - 40 m	West	00	yes	1
		Spring	EUST	European Starting	4		0-40 m	West/Southwest	90	yes	,
		Spring	EUST	European Starling	40	9	40 - 180 m	West/Northwest	2	yes	1 min
		Spring	COGR	Common Grackle	15		40 - 180 m	Southeast	no	yes	2 min
		Spring	RWBL	Red-winged Blackbird	10	7	40 - 180 m	Southeast	00	yes	2 min
		Spring	RTHA	Red-tailed Hawk	1	7	40 - 180 m	Southeast	yes	ves	1 min
		Spring	AMCR	American Crow	2		0-40 m	North	ou	yes	
		Spring	COGR	Common Grackle	2	-	0 - 40 m	West	00	yes	1
		Spring	KILL	Killdeer	1		0-40m	Northwest	ou	yes	Y
		Spring	TUVU	Turkey Vulture	1	4	40 - 180 m	North	Ves	011	2 min
		Spring	KILL	Killdeer	2	,	40 - 180 m	West	no	yes	
18-Mar-11	H	Spring	TUVU	Turkey Vulture	П	7	40-180 m	South	sak	yes	2 min
		Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	Southwest	sak	yes	1 min
		Spring	COGR	Common Grackle	14		0-40 m	Northeast	ou	yes	· ·
		Spring	RWBL	Red-winged Blackbird	12	4	40 - 180 m	East	DO.	yes	1 min
		Spring	AMRO	American Robin	10		0-40 m	Northeast	DU.	yes	
		Spring	EUST	European Starling	22		0-40 m	East	00	yes	Y
		Spring	AMCR	American Crow	2		0-40 m	East	no	yes	
		Spring	AMRO	American Robin	T	Ī	0-40 m	Southeast	no	yes	
		Spring	COGR	Common Grackle	15	1	40 - 180 m	Northeast	OL	yes	1 min
		Spring	RWBL	Red-winged Blackbird	9		40 - 180 m	Northeast	no.	yes	1 min
		Spring	KILL	Killdeer	1		0-40 m	North/Northeast	OU	yes	
		Spring	AMCR	American Crow	2	1	40 - 180 m	East/Southeast	no	yes	1 min
		Spring	COGR	Common Grackle	1		0-40 m	Southeast	DO	yes	Y
		Spring	AMCR	American Crow	T	5	40 - 180 m	Northwest	no	yes	2 min
		Spring	TUVU	Turkey Vulture	2		40 - 180 m	Northeast	yes	yes	2 min
		Spring	MODO	Mourning Dave	1		0-40 m	East	OU	yes	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		Spring	KILL	Killdeer	2	4	40 - 180 m	Northeast	sak	sex	48 min
		Spring	AMRO	American Robin	4		0 - 40 m	North	no	yes	,
		Spring	TUVU	Turkey Vulture	н		0-40 m	West	no	yes	vi e
		Spring	COGR	Common Grackle	4	4	40 - 180 m	Northwest	no	yes	1 min
		Spring	AMRO	American Robin	. 2		0-40 m	East	OU	yes	1
		Spring	AMRO	American Robin	υń		0-40 m	East	OU.	yes	r
		Spring	COGR	Common Grackle	Ŧ.		0-40 m	West	DQ.	yes	
		Spring	TUVU	Turkey Vulture	e e		40 - 180 m	Southwest	yes	ves	3 min
T. Mar. 11		Spring	COGR	Common Grackle	1	1	40 - 180 m	Northwest	no	yes	2 min
11 10 10 11		Spring	RWBL	Red-winged Blackbird	H		0-40 m	South	no	yes	
		Spring	AMRO	American Robin	1		0-40 m	North	na	yes	
		Spring	COGR	Common Grackle	1	-	0-40 m	Northwest	no	yes	
		Spring	RWBL	Red-winged Blackbird	2		0 - 40 m	Northwest	OL.	yes	
		Spring	EUST	European Starling.	4	*	40 - 180 m	West	ná	yes	2 min
		Spring	COGR	Common Grackle	9		40 - 180 m	East/Southeast	no.	yes	1 min
		Spring	TUVU	Turkey Vulture	1		0-40 m	Northeast	yes	yes	2 min
		Spring	CAGO	Canada Goose	2	*	40 - 180 m	East/Northeast	no	yes	2 min
		Spring	COGR	Common Grackle	3	9.15	40 - 180 m	Northwest	na	yes	2 min

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point 6	Spacon	Code	Sporios	4	Ago	Ops	Observation	Circling	Entered Project Area	Estimated time within rooter
		Ļ	2000	camade		294	Height	Direction	(yes/no)	(ves/no)	area
	Spi	Spring Al	AMRO	American Robin	1		40 - 180 m	Northeast	DU	yes	1 min
	Sp	L	TUVU	Turkey Vulture	1		40 - 180 m	Southwest	yes	yes	3 min
	Sp		AMCR	American Crow	2		0-40m	West	DL DL	yes	
		L	EUST	European Starling	17		0-40m	North	na	yes	7
77-Mar-11	Spi		TUVU	Turkey Vulture	Ŧ		40 - 180 m	Northwest	yes	yes	1 min
	Sp	L	COGR	Common Grackle	2		0-40 m	North	90	yes	,
	Spi		MALL	Mallard	00		40 - 180 m	Northwest	00	yes	2 min
	Spi	Spring T	- חעת	Turkey Vulture	2		40 - 180 m	East	yes	yes	3 min
	Spi	Spring E	EABL	Eastern Bluebird	2		0-40 m	East	DU	yes	
	Spi		TUVU	Turkey Vulture	2		40-180 m	South/Southeast	yes	yes	3 min
	Spi		COGR	Common Grackle	9		0 - 40 m	Northwest	no	yes	
	Sp		KILL	Killdeer	1		40 - 180 m	East	no	yes	1 min
	Sp			Common Grackle	4		40 - 180 m	Southeast	2	yes	2 min
	Spi			Plleated Woodpecker	н		0 - 40 m	North	na	sak	1 min
	Spi			Red-tailed Hawk	. 2		40 - 180 m	East	yes	yes	3 min
	Sp			Turkey Vulture	m		40 - 180 m	East	yes	yes	3 min
	Spi		AMCR	American Crow	2		0 - 40 m	Southeast	00	yes	Y
	Spi	Spring R		Red-tailed Hawk	1		0 - 40 m	Southwest	OU.	yes	1 min
	Sp	Spring A	AMCR	American Crow	3		0 - 40 m	West/Southwest	DÚ.	yes	y
	Sp	Spring A	H	American Crow	2		0 - 40 m	West	01	yes	Y
22-Mar-11	2 Spr	Spring	,	American Crow	н		40 - 180 m	West	na	yes	1 min
	Spi	Spring T	į,	Turkey Vulture	1		40 - 180 m	East	yes.	yes	2 min
	Sp	Spring	KILL	Killdeer	1		40 - 180 m	East	00	yes	
	Spi	Spring R	RTHA	Red-tailed Hawk	7		40 - 180 m	Southwest	yes	yes	1 min
	Spi	Spring	KILL	Killdeer	Ŧ		0 - 40 m	East	sək	yes	1 min
	Sp	Spring	AMCR.	American Crow	8		0 - 40 m	North/Northwest	no	yes	
	Sp	Spring A	AMRO	American Robin	1		0 - 40 m	Northeast	2	yes	,
	Spi	Spring	COHA	Cooper's Hawk	1		40 - 180 m	South	no	yes	1 min
	Sp		NOHA	Northern Harrier	1		0-40 m	Northwest	01	yes	
	Sp		AMCR	American Crow	ĸ		0 - 40 m	Northeast	2	yes	
	Sp.		AMCR	American Crow	3		40-180 m	South	10	yes	2 min
	Spi		TUVU	Turkey Vulture	T		0 - 40 m	Northeast	92	yes	,
	Sp	Spring	KILL	Killdeer	2		40 - 180 m	Southeast	по	yes	2 min
	Spi		AMCR	American Crow	3		0 - 40 m	East	na	sak	
	Sp.		COGR	Common Grackle	4		40 - 180 m	Northwest	DI DI	yes.	2 min
	Sp		3WBL	Red-winged Blackbird	9		0-40m	North	01	yes	
	Sp.		KILL	Killdeer	ŗ		0 - 40 m	Southwest	no	yes	1 min
	Spi		TUVU	Turkey Vulture	2		40-180 m	Southwest	yes	yes	2 min
	Sp	Spring	COHA	Cooper's Hawk	1		0 - 40 m	Northeast	DQ.	yes	7
	Sp		COGR	Common Grackle	2		40 - 180 m	North	2	yes	1 min
The Mar 11	Spr	Spring	HOLA	Horned Lark	7		0 - 40 m	South	na	yes	
		Spring R	RTHA	Red-tailed Hawk	Ŧ		40 - 180 m	East	yes	yes	2 min
	Sp	Spring A	AMRO	American Robin	ī		40 - 180 m	Northwest	DO	yes	1 min
	Sp.		RTHA.	Red-tailed Hawk	н		40 - 180 m	Southwest	yes	yes	3 min
	Spi	Spring A	AMCR	American Crow	2		40 - 180 m	Southwest	yes	yes	2 min
	Sp	Spring B	BAEA	Bald Eagle	1	3 yrs	40 - 180 m	West	no	yes	2 min
	Sp		HOLA	Horned Lark	1		0-40 m	North	OL.	yes	
	Sp		TUVU	Turkey Vulture	7		40 - 180 m	South	yes	yes	2 min
	Sp	Spring C	COGR	Common Grackle	4		0 - 40 m	East	110	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	Observation	Circing	Entered Project Area	באוווושורהם חוווה אונווווו נססוהו
			4444			ì	Direction	(ves/no)	(ou/sak)	area
	w1	Spring	TUVU	Turkey Vulture	2	40 - 180 m	West	yes	yes	1 min
	V 1	Spring	COGR	Common Grackle	1	0-40 m	Southeast	00	yes	11
		Spring	AMRO	American Robin	2	0-40 m	West	2	yes	17
77-Mar-11	5	Spring	AMCR	American Crow	1	0 - 40 m	South	OU	yes	
	V 1	Spring	COGR	Common Grackle	4	0 - 40 m	Northeast	ОП	yes	7
	VI	Spring	AMRO	American Robin	1.4	0 - 40 m	South/Southwest	OU	yes	
	51	Spring	KILL	Killdeer	3	40 - 180 m	Northeast	no	yes	2 min
	J1	Spring	COGR	Common Grackle	7	40 - 180 m	North/Northwest	5	yes	1 min
	VI	Spring	AMRO	American Robin	4	0-40m	Northwest	DU	yes	
	W)	Spring	EUST	European Starling	15	0-40m	West/Southwest	OL	Ves	7
	w)	Spring	ВНСО	Brown-headed Cowbird	15	0 - 40 m	West/Southwest	00	Ves	
		Soring	COGR	Common Grackle	10	0 - 40 m	West/Southwest	92	san	
		Spring	RTHA	Red tailed Hawk	-	40-180 m	Southoast	Sen	San	2 min
		Soring	TUVU	Turkey Vulture	. ~	40-180m	South	Sen	San	3 min
		Spring	AMCR	American Crow	2	0-40 m	East	2	Ves	
	01	Spring	AMRO	American Robin	т	0-40m	Northwest	92	Ves	
		Spring	EUST	European Starling	ব	40 - 180 m	Northeast	2	ves	1 min
	41	Spring	COGR	Common Grackle	8	0-40m	Northeast	OU	yes	
		Spring	AMRO	American Robin	П	0 - 40 m	Northwest	92	yes	7
Z4-Mar-11	1 8	Spring	KILL	Kilideer	3	0 - 40 m	East	2	sak	,
	VI	Spring	COGR	Common Grackle	S	40 - 180 m	South/Southwest	no	yes	1 min
	VI.	Spring	TUVU	Turkey Vulture	.2	40 - 180 m	Northeast	yes	yes	2 min
	-51	Spring	COGR	Common Grackle	4	0 - 40 m	Northwest	2	yes	
	91	Spring	RTHA	Red-tailed Hawk	Ţ	40 - 180 m	East/Southeast	yes	yes	2 min
	01	Spring	HOLA	Horned Lark	2	0 - 40 m	Northwest	01	yes	,
	V1	Spring	L I	Brown-headed Cowbird	7.	0 - 40 m	Northwest	DU	yes	Y
	V1	Spring	Ţ.	American Crow	2	40 - 180 m	North	ОП	yes	1 min
	VI.	Spring		Common Grackle	1	0-40 m	Southeast	na	yes	
	9 1	Spring		American Robin	. 2	0-40 m	Northwest	00	yes	-1-
	V 1	Spring		Turkey Vulture	1	40 - 180 m	Southwest	yes	no	2 min
	V1	Spring	CAGO	Canada Goose	2	40 - 180 m	North/Northeast	no	yes	2 min
	J1	Spring	AMCR	American Crow	3	0 - 40 m	Southeast	no	yes	-
	J1	Spring	AMCR	American Crow	4	40 - 180 m	Northeast	OU	yes	1 min
	91	Spring	EAME	Eastern Meadowlark	т	0 - 40 m	North	na	yes	
	VI	Spring	AMRO	American Robin	5	40 - 180 m	South	DO.	yes	1 min
	VI	Spring	TUVU	Turkey Vulture	Ţ	40 - 180 m	Northwest	yes	yes	2 min
	VI	Spring	RTHA	Red-tailed Hawk	H	40 - 180 m	West/Northwest	yes	yes	2 min
	VI	Spring	COGR	Common Grackle	14	40 - 180 m	Northwest	DU	yes	1 min
	VI	Spring	EABL	Eastern Bluebird	3	0 - 40 m	Southwest	no	yes	7
	J1	Spring	COGR	Common Grackle	. 5	40 - 180 m	Northwest	01	yes	1 min
24-Mar-11	2 5	Spring	KILL	Killdeer	2	40 - 180 m	Northeast	yes	yes	10 min
	01	Spring	COGR	Common Grackle	7	40 - 180 m	North	na	yes	1 min
	V1	Spring	NOHA	Northern Harrier	1	0-40 m	Southeast	yes	yes	7
	w1	Spring	TUVU	Turkey Vulture	п	40 - 180 m	Northwest	yes	yes	2 min
	41	Spring	СОНА	Cooper's Hawk	T	0 - 40 m	East	02	yes	
	U1	Spring	WODU	Wood Duck	2	40 - 180 m	South	no	yes	1 min
	V1	Spring	EUST	European Starling	30	0 - 40 m	East	OL OL	yes	
	41	Spring	CAGO	Canada Goose	4	40 - 180 m	Southeast	na	yes	2 min
	w1	Spring	EUST	European Starling	20	40 - 180 m	South	no	yes	1 min

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date p	Point	Season	Code	Species	#1	Age		Observation	Circling	Entered Project Area	Estimated time within rooter
			1				Height	Direction	(hes/uo)	(ou/sak)	area
	-	Spring	N/A	Duck sp.	30		0 - 40 m	Northwest	yes	yes	
	51	Spring	HOLA	Homed Lark	ń		0-40 m	East	011	yes.	-1
		Spring	TUVU	Turkey Vulture	1		40 - 180 m	Southeast	yes	yes	2 min
24-Mar-11	7	Spring	AMCR	American Crow	3		0 - 40 m	Northeast	ņu	yes	
	VI	Spring	COGR	Common Grackle	9		0 - 40 m	Southwest	OL	yes	7
	\$1	Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	Northwest	yes	yes	2 min
	71	Spring	ВНСО	Brown-headed Cowbird	10		0 - 40 m	Northeast	na	sak	
	J1	Spring	EUST	European Starling	10	-	0 - 40 m	Northeast	DU	sak	
	VI	Spring	COGR	Common Grackle	9		40 - 180 m	North	pu	yes	1 min
	91	Spring	AMRO	American Robin	ić		40 - 180 m	East/Southeast	ОП	yes	1 min
	VI.	Spring	KILL	Killdeer	3		0 - 40 m	East	DU	yes	
	VI	Spring	AMCR	American Crow	2		0 - 40 m	West/Northwest	DC.	yes	,
	51	Spring	COGR	Common Grackle	3		0 - 40 m	South	00	yes	Y
	91	Spring	AMRO	American Robin	2		0 - 40 m	Northwest	na	sex	-
	VI	Spring	KILL	Killdeer	1	-	0-40 m	West	DO.	yes	111
	VI	Spring	HOLA	Horned Lark	3		0 - 40 m	Southeast	no	yes	
24-Mar-11	S	Spring	COGR	Common Grackle	ī,		40 - 180 m	Northwest	ou 0	yes	1 min
	91	Spring	RWBL	Red-winged Blackbird	1		0 - 40 m	North	no	yes	
	VI	Spring	COHA	Cooper's Hawk	1		0 - 40 m	West	no	sek	ý
	V 1	Spring	внсо	Brown-headed Cowbird	.5		0 - 40 m	North/Northeast	OL.	sak	Y
	VI	Spring	AMRO	American Robin	1		40 - 180 m	Northwest	na	sek	1 min
	W1	Spring	TUVU	Turkey Vulture	1		40 - 180 m	Southwest	yes	yes	3 min
	VI	Spring	COGR	Common Grackle	1		40 - 180 m	East	DO	yes	1 min
	V1	Spring	CAGO	Canada Goose	2	-	40 - 180 m	South	no	yes	1 min
	J1	Spring	HOLA	Horned Lark	3		0 - 40 m	Northwest	00	ves	
	VI	Spring	COGR	Common Grackle	4		40 - 180 m	Northwest	DU	yes	1 min
	V1	Spring	RTHA	Red-tailed Hawk	Ţ		40 - 180 m	North	yes	yes	2 min
	01	Spring	KICL	Killdeer	2		40 - 180 m	Northwest	00	sak	1 min
	VI	Spring	SOSP	Song Sparrow	1		0 - 40 m	South	na	sek	
	A.I	Spring	AMCR	American Crow	1		0 - 40 m	South	OU	yes	4
	V 1	Spring	AMCR	American Crow	÷		40 - 180 m	Northeast	OL	ves	1 min
	V1	Spring	TUVU	Turkey Vulture	,		40 - 180 m	Northeast	yes	hes	2 min
	w1	Spring	COGR	Common Grackle	9		40 - 180 m	Northwest	92	yes	1min
	w.I	Spring	AMRO	American Robin	+		0 - 40 m	East	na	sak	
	w1	Spring	KILL	Killdeer	3		0-40 m	Southwest	yes	yes	7
	6 1	Spring	EUST	European Starling	25	Ì	0-40 m	Northwest	00	yes	,
	v1	Spring	AMCR	American Crow	H		40 - 180 m	West	ou	yes	1 min
75.Mar.11		Spring	COGR	Common Grackle	3		0 - 40 m	East	DU	yes	
THE INITIAL CO.		Spring	AMRO	American Robin	òc		40 - 180 m	West/Southwest	no	yes	1 min
	V 1	Spring	COGR	Common Grackle	1		40 - 180 m	Southwest	0	yes	1 min
	JI.	Spring	AMCR	American Crow	2		40 - 180 m	East	na	yes	1 min
	M.1	Spring	TUVU	Turkey Vulture	2	-	40 - 180 m	West/Southwest	yes	yes	2 min
	V 1	Spring	TUVU	Turkey Vulture	1		40 - 180 m	South	yes	yes	1 min
	91	Spring	TUVU	Turkey Vulture	2		>180 m	South	yes	yes	×
	91	Spring	AMRO	American Robin	11		0 - 40 m	West	DU	hes	
	U1	Spring	HOLA	Homed Lark	4		0 - 40 m	South	na	hes	Y
	01	Spring	AMCR	American Crow	3		40 - 180 m	North/Northwest	00	yes	1 min
	V)	Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	South/Southeast	yes	yes	2 min
		Spring	COGR	Common Grackle	9		40 - 180 m	Northwest	no	yes	1 min

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age		COSE (SECIO)		בוויבובת גוסובת טובם	
							Height	Direction	(yes/no)	(hes/no)	агеа
		Spring	KILL	Killdeer	2		0 - 40 m	East	na	yes	8
		Spring	EUST	European Starling	20		0 - 40 m	West/Southwest	92	yes	111
		Spring	ВНСО	Brown-headed Cowbird	20		0-40m	West/Southwest	50	Ves	
		Spring	UVUT	Turkey Vulture	1	I	40 - 180 m	Northeast	ves	ves	2 min
		Spring	RWBL	Red-winged Blackbird	8		0 - 40 m	Southeast	2	ves	1
		Spring	AMCR	American Crow	· m		0 - 40 m	West	92	yes	,
		Spring	NOHA	Northern Harrier	1		0 - 40 m	West	22	yes	hunting
		Spring	AMRO	American Robin	1		0 - 40 m	Northwest	no	yes	7
25-Mar-11	-	Spring	CAGO	Canada Goose	4		40 - 180 m	Northeast	00	yes	1 min
		Spring	GBHE	Great Blue Heron	1		40 - 180 m	North/Northeast	02	ves	1 min
		Spring	RTHA	Red-tailed Hawk	7		40 - 180 m	Southeast	ves	ves	1-min
		Spring	COGR	Common Grackle	Ţ		0 - 40 m	West	2	ves	
		Spring	EUST	European Starling	4		0 - 40 m	East	00	ves	7
		Soring	KILL	Killdeer	7		0 - 40 m	Northeast	2	Ves	
		Spring	COGR	Common Grackle	×		0 - 40 m	North/Northwest	OL	yes	~
		Spring	EUST	European Starling	S		0-40 m	North	20	yes	r
		Spring	COGR	Common Grackle	2		0 - 40 m	Northwest	00	yes	ï
		Spring	AMCR	American Crow	2		0 - 40 m	West/Northwest	DU	yes	
		Spring	AMCR	American Crow	1		0 - 40 m	South	92	yes	Y
		Spring	AMRO	American Robin	9		40 - 180 m	Northeast	2	yes	2 min
		Spring	EUST	European Starling.	20		40 - 180 m	South	DL.	yes	1 min
		Spring	HOLA	Horned Lark	4		0 - 40 m	Northwest	92	yes	1
		Spring	COGR	Common Grackle	12		40 - 180 m	East/Southeast	2	yes	1 min
		Spring	COGR	Common Grackle	2		40 - 180 m	East/Southeast	OU	yes	1 min
		Spring	COGR	Common Grackle	4		0 - 40 m	West	92	, ves	1
		Spring		Red-winged Blackbird	5		40 - 180 m	East/Northeast	DO	yes	1 min
		Spring		Blue Jay	3		40 - 180 m	South	92	yes	1 min
		Spring		Common Grackle	4		40 - 180 m	Northwest	no	yes	1 min
		Spring		Common Grackle	5		40 - 180 m	East	no no	yes	1 min
35 han 14		Spring	Ш	American Robin	3		0 - 40 m	Southeast	DO	yes	
-Midi-11	4	Spring	COGR	Common Grackle	7		40 - 180 m	West	no	yes	1 min
		Spring	COGR	Common Grackle	20		40 - 180 m	South	ОП	yes	2 min
		Spring	COGR	Common Grackle	14		40 - 180 m	South	no	yes	1 min
		Spring	NOPI	Northern Pintail	12		40 - 180 m	Southeast	00	yes	1 min
		Spring	N/A	Duck sp.	30		40 - 180 m	Southeast	yes	yes	2 min
		Spring	COGR	Common Grackle	10		40 - 180 m	Southwest	DU	yes	2 min
		Spring	RWBL	Red-winged Blackbird	10		40 - 180 m	Southwest	20	yes	2 min
		Spring	COGR	Common Grackle	12		40 - 180 m	South	no	yes	1 min
		Spring	EUST	European Starling	20		40 - 180 m	Southeast	DL	yes	
		Spring	EUST	European Starling	.20		40 - 180 m	South	2	yes	2 min
		Spring	COGR	Common Grackle	2		0 - 40 m	East	DO.	yes	
		Spring	AMCR	American Crow	3	-	40 - 180 m	East/Southeast	na	yes	1 min
		Spring	HOLA	Homed Lark	4.	Ī	0 - 40 m	Northeast	na	yes	
ľ		Spring	COGR	Common Grackle	3.		0 - 40 m	Southwest	OL	yes	
		Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	Northeast	yes	yes	2 min
		Spring	TUVU	Turkey Vulture	3		40 - 180 m	North	sek	yes	3 min
25-Mar-11	3	Spring	AMRO	American Robin	4		40 - 180 m	Southwest	2	yes	1 min
		Spring	COGR	Common Grackle	9		0 - 40 m	North/Northeast	na	yes	
		Spring	AMRO	American Robin	2		0 - 40 m	West	01	yes	Y

Date	Point	Season	Code	Species	#	Age	obs.	Observation	Circling	Entered Project Area	Estimated time within rooter
							neignt	nuection	(ou/sak)	lou/saki	gied
		Spring	KILL	Killdeer	2	4	40 - 180 m	South	DU	yes	1 min
		Spring	EABL	Eastern Bluebird	2		0-40 m	East	DO.	yes	
		Spring	RTHA	Red-tailed Hawk	1	4	40 - 180 m	Southwest	yes	yes	1 min
		Spring	TUVU	Turkey Vulture	H	4	40 - 180 m	South	yes	yes	2 min
		Spring	COGR	Common Grackle	2	-	0 - 40 m	Northeast	2	ves	
		Spring	AMCR	American Crow	1	-	0-40 m	Narth	DU	yes	,
		Spring	AMRO	American Robin	4	4	40-180 m	Southeast	OU	yes	1 min
		Spring	COGR	Common Grackle	1		0-40 m	Northwest	no	yes	
		Spring	EUST	European Starling	ĸ		0-40 m	North/Northwest	OU	yes	
		Spring	TUVU	Turkey Vulture	1	4	40 - 180 m	Northeast	yes	yes	2 min
		Spring	RTHA	Red-tailed Hawk	7	ď	40 - 180 m	East/Northeast	ves	ves	1 min
25-Mar-11	m	Spring	COGR	Common Grackle	i,	4	40 - 180 m	Southwest	00	ves	1 min
		Spring	AMCR	American Crow	4		0 - 40 m	South	DU	ves	
		Spring	AMRO	American Robin	7		0-40 m	Southwest	00	Ves	×
		Spring	COHA	Cooper's Hawk	Ę		0-40 m	East	no	yes	-
		Spring	HOLA	Homed Lark	2		0-40 m	Northeast	na	ves	
		Spring	COGR	Common Grackle	3	4	40 - 180 m	North	02	Åes	1 min
		Spring	AMRO	American Robin	9	4	40 - 180 m	Southeast	no	yes	1 min
		Spring	TUVU	Turkey Vulture	1	4I	40 - 180 m	East/Southeast	yes	yes	2 min
		Spring	KILL	Killdeer	2		0 - 40 m	West	no	yes	,
		Spring	AMRO	American Robin	1		0-40 m	Northwest	2	yes	Y
		Spring	COGR	Common Grackle	9		0 - 40 m	Southwest	ou Ou	yes	
		Spring	AMCR	American Crow	1	4	40 - 180 m	Northeast	no	yes	1 min
		Spring	COGR	Common Grackle	1	4	40 - 180 m	Northeast	ou	yes	1 min
		Spring	AMRO	American Robin	1		0-40 m	Southeast	01	sak	
		Spring	AMCR	American Crow	5		0 - 40 m	East	00	sek	,
		Spring	TUVU	Turkey Vulture	9	4	40 - 180 m	Southeast	sak	sex	2 min
		Spring	AMCR	American Crow	2		0 - 40 m	West	no	yes	
		Spring	COGR	Common Grackle	1	4	40 - 180 m	East	OU	yes	1 min
		Spring	AMRO	American Robin	1		0-40 m	North/Northeast	no	yes	-
		Spring	RWBL	Red-winged Blackbird	1		0-40 m	North	no	yes	
		Spring	внсо	Brown-headed Cowbird	15		0 - 40 m	West/Northwest	OU	yes	
		Spring	EUST	European Starling	.15		0 - 40 m	West/Northwest	na	yes	·
1		Spring	COGR	Common Grackle	7		0 - 40 m	Northwest	DO.	sak	
		Spring	HOLA	Horned Lark	3		0 - 40 m	North	no	yes	
77 Mars 17		Spring	CAGO	Canada Goose	. 2	ব	40 - 180 m	Southwest	no	yes	1 min
-INIGL-TT	4	Spring	COGR	Common Grackle	1		0-40 m	East	DU.	yes	,
	- 5	Spring	COGR	Common Grackle	4	ā.	40 - 180 m	East/Northeast	Du	, kes	2 min
		Spring	AMRO	American Robin	Ŧ		0 - 40 m	West	2	yes	,
		Spring	AMRO	American Robin	1		0 - 40 m	West	DU	yes	,
		Spring	AMCR	American Crow	3		0 - 40 m	North/Northwest	DO.	yes	
		Spring	COGR	Common Grackle	2	4	40 - 180 m	East	no	yes	1 min
		Spring	COGR	Common Grackle	1		0-40 m	West	na	sex	
		Spring	COGR	Common Grackle	1	4	40 - 180 m	South	OL	yes	1 min
		Spring	AMRO	American Robin	ń.		0-40 m	East/Southeast	no	yes	
		Spring	COGR	Common Grackle	80		0 - 40 m	South/Southwest	no	yes	
		Spring	EUST	European Starling	2		0 - 40 m	South/Southeast	00	yes	y
		Spring	KILL	Kilideer	1		0 - 40 m	East	ou	yes	
		Spring	HOLA	Horned Lark	2		0 - 40 m	West/Northwest	na	yes	T

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age			and a second	
						Height	١	(yes/no)	(ou/sak)	area
		Spring	EUST	European Starling	3	40 - 180 m	m East/Northeast	na	yes	1 min
		Spring	RTHA	Red-tailed Hawk	1	40 - 180 m	m South	yes	yes	2 min
		Spring	COGR	Common Grackle	1	0-40m	East	pu	yes	,
Z/-IVIar-TT	4	Spring	HOLA	Homed Lark	1	0 - 40 m	South	ou	yes	
		Spring	COGR	Common Grackle	3	40 - 180 m	m North/Northwest	01	yes	1 min
		Spring	AMRO	American Robin	4	0 - 40 m	Northwest	no	yes	
		Spring	COGR	Common Grackle	2	40-180 m	m South/Southwest	מס	yes	1 min
		Spring	TUVU	Turkey Vulture	Ŧ	40 - 180 m	m Northwest	sak	, hes	2 min
		Spring	AMCR	American Crow	3	0 - 40 m	Northwest	ou	yes	
		Spring	AMRO	American Robin	я	40 - 180 m	m Northeast	OU	yes	Υ.
		Spring	TUVU	Turkey Vulture	2	40 - 180 m	m Southeast	yes	yes	2 min
		Spring	EUST	European Starling	10	0 - 40 m	South	no	yes	
		Spring	COGR	Common Grackle	1	0 - 40 m	Southeast	01	sek	
		Spring	AMRO	American Robin	4	0 - 40 m	Northwest	ou	yes	
		Spring	HOLA	Homed Lark	4	0 - 40 m		0U	yes	
		Spring	CAGO	Canada Goose	9	40 - 180 m	m East/Southeast	DU	yes	1 min
		Spring	COGR	Common Grackle	9	40-180 m	m Northeast	011	yes	1 min
		Spring	AMRO	American Robin	3	0 - 40 m	Northeast	no	yes	
		Spring	EAME	Eastern Meadowlark	н	0 - 40 m	Northeast	90	yes	<i>y</i>
		Spring	COGR	Common Grackle	3	40 - 180 m	m North	OL.	yes	1 min
27-Mar-11	7	Spring	AMCR	American Crow	. 2	0 - 40 m	Southeast	na	yes	
		Spring	AMCR	American Crow	Ŧ	40 - 180 m	m Northwest	no no	yes	2 min
		Spring	AMRO	American Robin	3	0 - 40 m	. East	DO	yes	
		Spring	UVUT	Turkey Vulture	1	40 - 180 m	m Northeast	yes	yes	1 min
		Spring	RWBL	Red-winged Blackbird	3	0 - 40 m	Southwest	.00	ves	
		Spring	внсо	Brown-headed Cowbird	2	0 - 40 m	South	no	yes	,
		Spring	COGR	Common Grackle	1	0 - 40 m	East	00	yes	,
		Spring	RTHA	Red-tailed Hawk	T.	40 - 180 m	m West/Southwest	yes	yes	2 min
		Spring	AMCR	American Crow	2	0 - 40 m	t West	no	yes	1
		Spring	HOLA	Horned Lark	4	0-40 m	-	no	yes	
		Spring	AMCR	American Crow	ĸ	40 - 180 m	m Southwest	no	yes	1 min
		Spring	EUST	European Starling	20	0 - 40 m	-	00	yes	,
		Spring	TUVU	Turkey Vulture	1	40 - 180 m	m Southeast	ves	yes	3 min
Ī		Spring	AMRO	American Robin	ń	40 · 180 m	d	00	yes	1 min
		Spring	NOHA	Northern Harrier	1	0 - 40 m	East/Southeast	no	yes	
	K	Spring	TUVU	Turkey Vulture	2	40 - 180 m		yes	yes	2 min
Ī		Spring	AMRO	American Robin	4	40 - 180 m	No	no	yes	1 min
		Spring	COGR	Common Grackle	3	0 - 40 m	Southwest	na	yes	
		Spring	KILL	Kilideer	2	0 - 40 m	West	na	yes	,
		Spring	RTHA	Red-tailed Hawk	1	40 - 180 m		yes	yes	2 min
		Spring	COGR	Common Grackle	2	0 - 40 m	n Northeast	no	yes	
77 Mar 17		Spring	AMCR	American Crow	Ŧ	0 - 40 m	-	na	yes	
TT-IDIAL T	1	Spring	COGR	Common Grackle	5	40 - 180 m		no	yes	1 min
		Spring	AMRO	American Robin	9	40 - 180 m	m Southwest	0Ľ	yes	1 min
		Spring	AMCR	American Crow	1	0 - 40 m		00	yes	
		Spring	TUVU	Turkey Vulture	ı	40 - 180 m	m North/Northwest	sak	yes	2 min
		Spring	RTHA	Red-tailed Hawk	Ŧ	40 - 180 m		yes	yes	1 min
		Spring	COGR	Common Grackle	2	0 - 40 m	Š	na	yes	
		Spring	AMRO	American Robin	H	0 - 40 m	North	00	VPK	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	ena.	COSSIVACION	Surran	בשובנהם הנסופנו אובם	Estimated time within 100te
					-		Height	Direction	(ves/no)	(hes/no)	area
		Spring	AMCR	American Crow	2	1	40 - 180 m	East/Northeast	na	yes	1 min
		Spring	AMRO	American Robin	3	Ī	40 - 180 m	Southwest	92	yes	1 min
		Spring	COGR	Common Grackle	3		0-40m	West	DU	yes	
		Spring	TUVU	Turkey Vulture	17	l	40 - 180 m	North/Northeast	yes	yes	2 min
		Spring	KILL	Killdeer	2		0 - 40 m	West/Southwest	02	ves	1
		Spring	AMRO	American Robin	10	i	40 - 180 m	East	92	yes	1 min
		Spring	AMCR	American Crow	Ħ		0 - 40 m	Northeast	92	yes	
Z7-IVIar-11	7	Spring	EUST	European Starling	15		0 - 40 m	Northwest	OL.	yes	
		Spring	TUVU	Turkey Vulture	1		40 - 180 m	West	yes	yes	2 min
		Spring	AMRO	American Robin	2		0 - 40 m	Southwest	92	ķes	
		Spring	COGR	Common Grackle	7		40 - 180 m	East/Southeast	00	ves	1 min
		Spring	RTHA	Red-tailed Hawk		Ī	40 - 180 m	Southwest	ves		2 min
		Spring	AMRO	American Robin	9		40 - 180 m	West/Southwest	00	ves	2 min
		Spring	AMCR	American Crow	4		40 - 180 m	Northeast	00	yes	1 min
		Spring	TUVU	Turkey Vulture	2		40 - 180 m	Northeast	yes	yes	2 min
i		Spring	COGR	Common Grackle	4		0-40m	North	DU.	Ves	
	-1	Spring	AMCR	American Crow	m		0-40m	West	00	yes	
		Spring	TUVU	Turkey Vulture	2		40 - 180 m	South	yes	yes	3 min
		Spring	AMRO	American Robin	1	r	0 - 40 m	East	п	yes	Y
	3.	Spring	COGR	Common Grackle	1		40 - 180 m	Northwest	2	yes	1 min
		Spring	HOLA	Harned Lark	4		0 - 40 m	South	na	yes	
		Spring	KILL	Killdeer	1	Ī	0 - 40 m	East	00	yes	
	20	Spring	AMRO	American Robin	1		0 - 40 m	East/Northeast	00	yes	*
	~,	Spring	HOLA	Horned Lark	20	i	0 - 40 m	West/Southwest	OU.	yes	
		Spring	HOLA	Horned Lark	1		0 - 40 m	West/Northwest	OL.	yes	1
		Spring	HOLA	Horned Lark	2	Ī	0 - 40 m	West	DU	yes	
20 hdos 11		Spring	AMRO	American Robin	1		0 - 40 m	Southeast	00	yes	
TT-IPINI-G		Spring	TUVU	Turkey Vulture	1		40 - 180 m	Northwest	yes	yes	2 min
	2,	Spring	COGR	Common Grackle	4		40 - 180 m	East	no	yes	1 min
	20	Spring	AMCR	American Crow	1		0-40 m	South	ОП	yes	
		Spring	AMRO	American Robin	1		0-40 m	East	no	yes	
	-1.	Spring	TUVU	Turkey Vulture	T		40 - 180 m	North/Northwest	yes	yes	3 min
		Spring	TUVU	Turkey Vulture	4	-	40 - 180 m	North/Northeast	yes	yes	5 min
		Spring	KILL	Killdeer	1		0-40 m	Southeast	DO.	yes	
		Spring	AMCR	American Crow	3		0 - 40 m	West	no	yes	
		Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	Northwest	yes	yes	2 min
		Spring	AMCR	American Crow	1		0 - 40 m	West	DO.	yes	
		Spring	RTHA	Red-tailed Hawk	1		0 - 40 m	West	no	yes	
		Spring	AMCR	American Crow	2		40 - 180 m	West/Southwest	00	yes	1 min
		Spring	COGR	Common Grackle	3		0 - 40 m	Northeast	92	yes	
		Spring	EUST	European Starling	15		0 - 40 m	North/Northwest	no	yes	7
	3,0	Spring	AMCR	American Crow	2		0 - 40 m	West/Northwest	92	yes	11
		Spring	COGR	Common Grackle	1	Ī	0 - 40 m	Northeast	DO	yes	
		Spring	COGR	Common Grackle	1	Ī	40 - 180 m	Southwest	OU	yes	1 min
29-Mar-11	7	Spring	HOLA	Horned Lark	3		0 - 40 m	West	no	yes	
	-15	Spring	COGR	Common Grackle	9		40 - 180 m	South/Southwest	00	yes	1 min
		Spring	AMRO	American Robin	2		0-40 m	Northeast	2	yes	
1		Spring	CAGO	Canada Goose	4		40 - 180 m	North/Northeast	no	yes	1min
	3	Spring	COGR	Common Grackle	1		0-40 m	North	90	Ves	

Diurnal Bird and Naptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	Coseivation	9,112	Entered Project Area	Estimated time within tooter
			2000	-			Direction	(ves/no)	(hes/no)	area
		Spring	KILL	Killdeer	2	0 - 40 m	Northwest	DU	yes	0
		Spring	MODO	Mourning Dove	ĸ	0 - 40 m	East	92	yes.	
		Spring	AMCR	American Crow	1	0-40 m	Northeast	В	yes	= 1
		Spring	HOLA	Homed Lark	4	0 - 40 m	West/Southwest	00	yes	
		Spring	EUST	European Starling	00	0 - 40 m	Northwest	92	yes	1
		Spring	AMCR	American Crow	3	40 - 180 m	Northeast	DU	yes	1 min
O Mare 13	٢	Spring	COGR	Common Grackle	7	0 - 40 m	South	DO.	yes	
Z9-IVIAL-IT		Spring	AMRO	American Robin	2	0 - 40 m	Northeast	DU	yes	1
		Spring	KILL	Killdeer	3	0-40 m	Southwest	OU	yes	100
		Spring	COGR	Common Grackle	Ŧ	40 - 180 m	South	01	ķes	
		Spring	HOLA	Horned Lark	2	0 - 40 m	Northeast	DU	sak	
		Spring	COGR	Common Grackle	m	0 - 40 m	Northwest	OL	yes	1
		Spring	TUVU	Turkey Vulture	4	40 - 180 m	Southwest	sek	hes	3 min
		Spring	TUVU	Turkey Vulture	2	40 - 180 m	Southeast	yes	yes	2 min
		Spring	AMRO	American Robin	ĸ	0 - 40 m	East	DO.	yes	
		Spring	COGR	Common Grackle	1	40 - 180 m	West	DU	yes	1 min
		Spring	KILL	Killdeer	H	0 - 40 m	Southwest	00	yes	
		Spring	TUVU	Turkey Vulture	2	40 - 180 m	Southeast	yes	yes	2 min
		Spring	COGR	Common Grackle	1	0 - 40 m	North	no	sek	7
		Spring	AMRO	American Robin	4	40-180 m	Northwest	OL OL	yes	1 min
		Spring	RWBL	Red-winged Blackbird	8	0 - 40 m	Southwest	na	yes	
		Spring	±uvu	Turkey Vulture	1	40 - 180 m	East/Southeast	10	yes	2 min
		Spring	AMCR	American Crow	4	40 - 180 m	North/Northeast	00	yes	1 min
200000		Spring	RTHA	Red-tailed Hawk	H	40 - 180 m	Northwest	yes	yes	1 min
Z9-IVIar-II	n	Spring	COGR	Common Grackle	m	0 - 40 m	Southwest	01	yes	1
		Spring	AMCR	American Crow	1	0 - 40 m	North	no	yes	· ·
		Spring	AMRO	American Robin	m	40 - 180 m	Southeast	ОП	yes	1 min
		Spring	TUVU	Turkey Vulture	1	40 - 180 m	North	yes	yes	2 min
		Spring	AMCR	American Crow	1	0 - 40 m	South	00	yes	1
		Spring	COGR	Common Grackle	3	0 - 40 m	West	DO	yes	
		Spring	RTHA	Red-tailed Hawk	1	40 - 180 m	Southeast	yes	yes	1 min
		Spring	HOLA	Horned Lark	10	0 - 40 m	East/Northeast	OU	ves	
		Spring	AMRO	American Robin	9	40 - 180 m	Northwest	DQ.	yes	1 min
		Spring	COGR	Common Grackle	9	0 - 40 m	South	no	yes	1
		Spring	TUVU	Turkey Vulture	1	40 - 180 m	Northeast	yes	yes	3 min
		Spring	HOLA	Horned Lark	Ħ	0-40m	East/Southeast	DU	yes	7
		Spring	KILL	Killdeer	F	0 - 40 m	East	no	yes	
		Spring	AMRO	American Robin	1	0-40 m	North	na	yes	
		Spring	COGR	Common Grackle	1	40 - 180 m	Southwest	DU	sek	1 min
		Spring	HOLA	Horned Lark	1	0 - 40 m	South/Southwest	ou	yes	1
		Spring	AMCR	American Crow	Ħ.	40 - 180 m	Southeast	no	yes	1 min
31-Mar-11	+	Spring	RWBL	Red-winged Blackbird	Ŧ	0 - 40 m	Northeast	na	yes	1
		Spring	EUST	European Starling	ιή	0-40 m	West/Northwest	ы	yes	
		Spring	TUVU	Turkey Vulture	ŗ	40 - 180 m	North/Northeast	yes	yes	2 min
		Spring	TUVU	Turkey Vulture	1	40 - 180 m	South/Southeast	yes	yes	2 min
		Spring	AMRO	American Robin	m	0 - 40 m	Northeast	no	yes	7
		Spring	TUVU	Turkey Vulture	H	40 - 180 m	Southwest	yes	yes	2 min
		Spring	TUVU	Turkey Vulture	2	40 - 180 m	East/Northeast	yes	kes	4 min
		Spring	COGR	Common Grackle	+	0 - 40 m	Northwest	00	Ves	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Boint	Spacon	Code	Spories	#	Ago)sqo	Observation	Circling	Entered Project Area	Estimated time within rooter
2000	Louis	Incorn	anna	canade		284	Height	Direction	(yes/no)	(ves/no)	area
		Spring	TUVU	Turkey Vulture	3.	4	40 - 180 m	South	yes	yes	3 min
		Spring	KILL	Killdeer	ī	1	0-40 m	South/Southwest	no	yes	
		Spring	AMRO	American Robin	25	4	40 - 180 m	North	DU	yes	2 min
		Spring	TUVU	Turkey Vulture	1	4	40 - 180 m	Southeast	yes	yes	1 min
		Spring	-	Turkey Vulture	1		>180 m	Southeast	yes	ves	1
		Spring	١.	American Crow	н		0-40 m	Narth	DQ	yes	ì
		Spring	ш	American Robin	Ŧ		0 - 40 m	Northwest	00	ves	,
3		Spring	EUST	European Starling	30	4	40 - 180 m	West/Northwest	no	yes	2 min
31-Mar-11	-	Spring	١.	Turkey Vulture	.2	4	40 - 180 m	Northwest	ves	yes	3 min
		Spring		Turkey Vulture	1	4	40 - 180 m	Northwest	ves	ves	2 min
		Saring		American Crow	2		0 40 m	South	DC.	ves	
		Spring		Turkey Vulture	+		0 - 40 m	Northeast	ves	Sey	, 1
		Spring	1	Turkey Vulture	1	4	40 - 180 m	Southwest	ves	ves	2 min
		Soring	L.	American Crow	m		0 - 40 m	Southeast	00	ves	
		Spring	ŀ.	Turkey Vulture	2	4	40 - 180 m	North/Northeast	ves	Ves	1 min
		Spring		Horned Lark	2	in in	0-40 m	Southeast	DU	yes	,
		Soring	L	Turkey Vulture	1		0 - 40 m	East	Ves	ves	
		Soring	TUVU	Turkey Vulture	1	4	40 - 180 m	Northeast	ves	Ves	2 min
		Spring	AMCR	American Crow	2		0 - 40 m	South	DU.	ves	
		Spring	TUVUT	Turkey Vulture	3	4	40 - 180 m	South/Southeast	ves	ves	3 min
		Spring	TUVU	Turkey Vulture	н		0 - 40 m	South	ves	yes	
		Spring	HOLA	Horned Lark	7		0 - 40 m	West	00	yes	-1
		Spring	COGR	Common Grackle	Ŧ		0-40 m	Northeast	DU	yes	
		Spring	EUST	European Starling	1		0-40 m	West	OU	yes	,
		Spring	AMRO	American Robin	2		0 - 40 m	Northwest	00	yes	1
		Spring	UVUT	Turkey Vulture	4		0 - 40 m	West/Northwest	sek	yes	7
		Spring	TUVU	Turkey Vulture	1	4	40 - 180 m	Northwest	yes	yes	3 min
21 Mar 11	2	Spring	AMCR	American Crow	1	1	0 - 40 m	East	no	yes	
77-18181-47		Spring	TUVU	Turkey Vulture	1	4	40 - 180 m	East	yes.	yes	2 min
		Spring	AMRO	American Robin	3		0-40 m	Northeast	DO	yes	1
		Spring	COGR	Common Grackle	4		0 - 40 m	North/Northeast	no	yes	
		Spring	RTHA	Red-tailed Hawk	1	4	40 - 180 m	South/Southwest	yes	yes	2 min
		Spring	KILL	Killdeer	2.		0 - 40 m	East/Northeast	na	yes	
		Spring	TUVU	Turkey Vulture	н	4	40 - 180 m	South	yes	yes	2 min
		Spring	AMCR	American Crow	3		0-40 m	Southeast	na	yes	
		Spring	GBHE	Great Blue Heron	ť		0 - 40 m	North	DO.	yes	
		Spring	TUVU	Turkey Vulture	1	4	40 - 180 m	Southeast	yes	yes	2 min
		Spring	AMCR	American Crow	3		0 - 40 m	Northwest	na	yes	
		Spring	COGR	Common Grackle	4		0 - 40 m	East/Northeast	2	yes	1
		Spring	AMRO	American Robin	2		0 - 40 m	East	20	yes	,
		Spring	H500	Common Grackle	2	1	0 - 40 m	North/Northeast	no	sek	7
		Spring	COGR	Common Grackle	m		0 - 40 m	North	OL	yes	4
		Spring	AMRO	American Robin	Ţ	-	0-40 m	Southwest	DO.	yes	
		Spring	COGR	Common Grackle	4		0-40 m	Northeast	DO.	yes	
31-Mar-11	m	Spring	COGR	Common Grackle	'n	4	40 - 180 m	South/Southwest	no	yes	1 min
		Spring	KILL	Killdeer	1		0 - 40 m	South	no	yes	,
		Spring	EAME	Eastern Meadowlark	т		0 - 40 m	South/Southwest	ou	yes	1
		Spring	COGR	Common Grackle	8		0 - 40 m	West	na	yes	-
		Spring	COGR	Common Grackle	2		0-40 m	South	DO	yes	1

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	aran .	Observation	Circuid	בוויהנהם הנסופנו אוהם	Estillated tille within 100te
							Height	Direction	(ves/no)	(yes/no)	area
		Spring	HOLA	Horned Lark	2	J	0-40 m	West	na	yes	
		Spring	COGR	Common Grackle	1	9	0-40 m	North	OL.	yes	
		Spring	KILL	Killdeer	24	3	0-40 m	Northeast	DU	yes	Y
		Spring	COGR	Common Grackle	2	3	0 - 40 m	South	ou	yes	,
		Spring	RWBL	Red-winged Blackbird	9	3	0 - 40 m	West	00	yes	ī
		Spring	COGR	Common Grackle	2	0	0-40 m	West	90	yes	7
		Spring	MODO	Mourning Dove	П	0	0-40 m	Northeast	00	yes	
		Spring	COGR	Common Grackle	1	0	0 - 40 m	South	ou	yes	7
		Spring	EUST	European Starling	ī		0-40 m	North/Northwest	ou	yes	1
		Spring	COGR	Common Grackle	10		0 - 40 m	North/Northwest	2	ves	
		Spring	RWBL	Red-winged Blackbird	10	3	0 - 40 m	North/Northwest	ou.	yes	1
		Spring	COGR	Common Grackle	2	3	0-40 m	Northwest	00	, ves	
		Spring	MODO	Mourning Dove	4	0	0-40 m	North	no	yes	,
31-Mar-11	8	Spring	TUVUT	Turkey Vulture	1	40	40 - 180 m	West	vės	ves	1 min
		Spring	COGR	Common Grackle	3	40	40 - 180 m	South	no	yes	7
		Spring	AMRO	American Robin	1	0	0-40 m	North/Northeast	D'U	ves	
		Spring	KILL	Killdeer	3	0	0 - 40 m	East	02	sak	
		Spring	COGR	Common Grackle	2	3	0-40 m	North	no	sak	
		Spring	MODO	Mourning Dove	.2	0	0-40 m	South/Southwest	0U	yes.	,
		Spring	KILL	Killdeer	1	3	0 - 40 m	South	DO.	yes	Y
		Spring	COGR	Common Grackle	2	0	0 - 40 m	West/Northwest	92	yes	
		Spring	TUVU	Turkey Vulture	1	40	40 - 180 m	South	ves	yes	2 min
		Spring	COGR	Common Grackle	9	3	0-40 m	South	no	yes	
		Spring	AMRO	American Robin	4	40	40 - 180 m	Southeast	ОП	yes	1 min
		Spring	COGR	Common Grackle	æ	J	0-40 m	East	na	yes	7
		Spring	TUVUT	Turkey Vulture	FI	40	40 - 180 m	Northeast	yes	yes.	1 min
		Spring	COGR	Common Grackle	4	3	0-40m	Southwest	OU	yes	
		Spring	HOLA	Horned Lark	3	J	0 - 40 m	North	na	sex	
		Spring	HOLA	Homed Lark	. 2	3	0 - 40 m	South	no		
		Spring	AMCR	American Crow	1	3	0 - 40 m	North	DO	yes	
		Spring	EUST	European Starling	13	9	0-40 m	Northwest	OU	yes	
		Spring	KILL	Killdeer	Ŧ	3	0 - 40 m	East	OU	yes	
		Spring	EAME	Eastern Meadowlark	1	3	0 - 40 m	Southeast	no	yes	
		Spring	AMRO	American Robin	п	J	0-40 m	East	DO.	yes	
		Spring	AMRO	American Robin	1	U	0 - 40 m	North	no	yes	
		Spring	SOSP	Song Sparrow	1	J	0 - 40 m	Southwest	OU	yes	
		Spring	RWBL	Red-winged Blackbird	T	J	0 - 40 m	East	DO.	yes	
7 Acc 11	*	Spring	AMRO	American Robin	1	2	0-40 m	South	OU	yes	
-Apr-11	4	Spring	EUST	European Starling	4	3	0 - 40 m	Northeast	2	yes	
		Spring	RWBL	Red-winged Blackbird	Ĺ	3	0 - 40 m	Southeast	DU	yes	
		Spring	RTHA	Red-tailed Hawk	51	40	40 - 180 m	Northeast	yes	yes	3 Minutes
		Spring	AMCR	American Crow	1		0 - 40 m	Southwest	no	yes	
		Spring	HOLA	Homed Lark	1	_	0 - 40 m	North	00	yes	
		Spring	AMCR	American Crow	2	3	0 - 40 m	South	0	sak	
		Spring	COGR	Common Grackle	3	9	0 - 40 m	Northeast	na	yes	
		Spring	EUST	European Starling	9	3	0 - 40 m	North	00	yes	
		Spring	COGR	Common Grackle	11	3	0 - 40 m	Southwest	ou	yes	
		Spring	AMRO	American Robin	2	3	0-40 m	South	OH	yes	
		Spring	RWBL	Red-winged Blackbird	80	9	0-40 m	South	no	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	COSEIVADO	9,000	בוורבובח בוסוברו שובם	Estillated time within 100tel
						Height	Direction	(ou/sak)	(yes/no)	area
		Spring	RWBL	Red-winged Blackbird	2	0 - 40 m	Northwest	Du.	sak	
7-Apr-11	7	Spring	EUST	European Starling	1	0 - 40 m	North	92	yes	
		Spring	AMRO	American Robin	1	0 - 40 m	East	DO.	yes	
		Spring	EUST	European Starling	2	0 - 40 m	North	ou	sak	
		Spring	TUVU	Turkey Vulture	4	0-40 m	South	yes	yes	
		Spring	CAGO	Canada Goose	9	40 - 180 m	Northeast	02	yes	1 Minute
		Spring	RWBL	Red-winged Blackbird	12	0 - 40 m	South	na	yes	
		Spring	TUVU	Turkey Vulture	4	0 - 40 m	West	sak	yes	
		Spring	RWBL	Red-winged Blackbird	3	0 - 40 m	West	DU.	yes	
		Spring	RWBL	Red-winged Blackbird	272	40-180 m	North	ou	yes	1 Minute
7-Apr-11	2	Spring	COGR	Common Grackle	1	0-40 m	North	DU	yes	
	-	Soring	RWBL	Red-winged Blackbird	27	0 - 40 m	North	na	yes	
		Spring	RWBL	Red-winged Blackbird	2	0 40 m	South	2	ves	
		Soring	COGR	Common Grackle	2	0 - 40 m	North	no	sea	
		Spring	COGR	Common Grackle	2	0 - 40 m	North	90	Ves	
		Spring	UVUT	Turkey Vulture	Ŧ	40-180 m	North	yes	yes	2 Minutes
		Spring	TUVU	Turkey Vulture	2	40-180 m	North	yes	yes	5 Minutes
		Spring	AMCR	American Crow	2	0 - 40 m	South	ou	yes	
		Spring	COGR	Common Grackle	2	0 - 40 m	South	OU	yes	
		Spring	AMRO	American Robin	H	0-40m	East	OU	yes	
		Spring	COGR	Common Grackle	4	0 - 40 m	Southwest	00	yes	
		Spring	AMRO	American Robin	2	0 - 40 m	Northwest	DO.	yes	
		Spring	AMRO	American Robin	2	0 - 40 m	South	ou	yes	
		Spring	NOHA	Northern Harrier	1	0 - 40 m	South/North	yes	yes	11.
		Spring	HOLA	Horned Lark	1	0 - 40 m	North	ou	yes	
		Spring	AMRO	American Robin	1	0 - 40 m	East	OL.	yes	
		Spring	AMRO	American Robin	н	0 - 40 m	North	na	yes	
		Spring	AMRO	American Robin	H.	0 - 40 m	South	OU	ves	
		Spring	RWBL	Red-winged Blackbird	2	0 - 40 m	North	na	, wes	1
		Spring	RTHA	Red-tailed Hawk	1	40 - 180 m	East/Northeast	00	ves	1 Minute
		Spring	KILL	Killdeer	1,	40 - 180 m	North	yes	yes	1 Minute
		Spring	NOP	Northern Pintail	ۏ	40-180 m	Northeast	no	yes	1 Minute
		Spring	RTHA	Red-tailed Hawk	1	0 - 40 m	West	OU	yes	
7-Apr-11	m	Spring	BOGU	Bonaparte's Gull	62	40 - 180 m	Northeast	no	yes	1 Minute
		Spring	СОНА	Cooper's Hawk	Ŧ	0 - 40 m	East	no	yes	
		Spring	AMRO	American Robin	et	0 - 40 m	Northeast	ou	. Ass.	
		Spring	RWBL	Red-winged Blackbird	2	0-40 m	North	ou	yes	
		Spring	COHA	Cooper's Hawk	1	0 - 40 m	Southwest	no	yes	
		Spring	RTHA	Red-tailed Hawk	1	0 - 40 m	Southwest	DO.	yes	
		Spring	AMRO	American Robin	1	0-40 m	North	00	yes	
		Spring	EUST	European Starling.	17	0 - 40 m	North	no	yes	1
		Spring	EUST	European Starling	2.	0 - 40 m	North	DO	yes	
		Spring	AMRO	American Robin	1	0 - 40 m	East	no	, sek	
		Spring	RWBL	Red-winged Blackbird	20	40 - 180 m	South	no	yes	1 Minute
		Spring	RWBL	Red-winged Blackbird	1	0 - 40 m	West	no	yes	
		Spring	AMRO	American Robin	1	0 - 40 m	Northwest	DO.	yes	
		Spring	AMRO	American Robin	1	0 - 40 m	Southwest	OL	yes	
	ĺ	Spring	SACR	Sandhill Grane	T	0 - 40 m	North	ng	sak	
		Spring	RWBL	Red-winged Blackbird	34	0 40 m	South	DU	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season					Height	Direction	(ves/no)	(ves/no)	area
	1	to Circle	OJAB	December househood Countried	4		- VV V	Counts	500	3-0-1	
	, 4	Spring	DOC D	Stawing County	0 1	0 0	100	South	2 1	Yes	
		Spring	COGN	Common brackle	7	0	0-40 m	unos	2	yes	
	-1	Spring	AMRO	American Kobin	1	0	0 - 40 m	Northwest	DQ.	yes	
	-1	Spring	AMRO	American Robin	T.	0	0-40 m	Southwest	00	yes	
	J1	Spring	EUST	European Starling	+	0	0-40 m	North	00	yes	
	V1	Spring	RTHA	Red-tailed Hawk	1	0	0 - 40 m	North	no	yes	
	N.	Spring	EAME	Eastern Meadowlark	1	0	0-40 m	Northwest	92	yes	
	S.	Spring	RTHA	Red-tailed Hawk	1	0	0 - 40 m	Southeast	na	yes	
	-ST	Spring	AMRO	American Robin	1	0	0-40 m	West	OU	yes	
	S	Spring	COGR	Common Grackle	1	40	40-180 m	Southeast	00	ķes	1 Minute
	5)	Spring	COHA	Cooper's Hawk	1	0	0-40 m	Southeast	ves	ves	
		Spring	COGR	Common Grackle	T	0	0 40 m	South	02	ves	
7-Apr-11	m S	Spring	MODO	Mourning Dove	1	0	0 - 40 m	West	OU.	yes	
		Soring	COGR	Common Grackle	1	0	0-40 m	South	02	sav.	
		Soring	COGR	Common Grackle	18	0	0 - 40 m	North	no	ves	
		Soring	AMRO	American Robin	4	0	0-40 m	North	2	ves	
		Spring	HOLA	Horned Lark	1	0	0 - 40 m	Northwest	00	Ses	
	. 5	Saring	RWBL	Red-winged Blackbird		0	0 - 40 m	East	92	sav.	
		Spring	AMRO	American Robin	2	0	0 - 40 m	Northwest	00	\ \	
		Soring	TUNU	Turkey Vulture		0	0-40 m	North	00	SAN	
		Soring	UVUT	Turkey Vulture			0 - 40 m	North	VPS	I sex	
		Spring	TUVU	Turkey Vulhare	11	40	40-180 m	North	NPS	San	3 Minutes
Ī		Spring	RWRI	Red-winged Blackhird	95	0	0-40 m	Southwest	1 2	Can Mark	
i		Spring	RTHA	Red-tailed Hawk	2, -	0 0	0-40 m	Mortheast	2	367	
İ	ľ	Similar		The state of the s	1 .	9 6	100	ALL ALL	2		
		Spring	HOLA	Horned Lark	1	9	40 - 180 m	North	DO	yes	1 Minute
		Spring	KWBL	Red-winged Blackbird	н (0 (0-40 m	Fast	00	yes	
	-1	Spring	HOLA	Horned Lark	2	0	0-40 m	South	2	yes	
	w1	Spring	AMRO	American Robin	3	0	0 - 40 m	South	na	yes	
	V 1	Spring	AMCR	American Crow	Ŧ	0	0-40 m	North	OU	yes	
	VI	Spring	EUST	European Starling	1	0	0 - 40 m	North	DO.	yes	
6	V1	Spring	EUST	European Starling	34	0	-40 m	Northwest	no	yes	
8-Apr-11	1 5	Spring	BOGU	Bonaparte's Gull	3	0	0 - 40 m	East	no	yes	
	VI	Spring	KILL	Killdeer	1	0	0 - 40 m	East	na	yes	
	S)	Spring	RWBL	Red-winged Blackbird	н	0	0-40 m	East	92	yes	
	41	Spring	EAME	Eastern Meadowlark	1	0	0 - 40 m	Northeast	na	yes	
	v1	Spring	AMCR	American Crow	1	0	0-40 m	South	OU	yes	
	Si	Spring	AMRO	American Robin	1	0	0 - 40 m	East	DO	yes	
	5	Spring	AMCR	American Crow	7	0	0-40 m	East	00	yes	
	- SI	Spring	AMRO	American Robin	1	0	0 - 40 m	North	υO	yes	
	J.	Spring	AMCR	American Crow	1	0	0 - 40 m	East	OL.	ves	
	S	Spring	HOLA	Horned Lark	23	0	0-40 m	East	ou.	ves	
	.vi	Spring	AMRO	American Robin	1	0	0-40 m	Southwest	00	ves	
	30	Spring	EUST	European Starling	1	0	0-40 m	Southwest	DU	ves	
		Spring	KILL	Killdeer	1	0	0-40 m	Southeast	OU	yes	
8-Apr-11	2	Spring	AMRO	American Robin	00	40	40-180 m	Southeast	00	Ves	1 Minute
		Spring	KILL	Killdeer	. 7	0	0-40 m	North	92	ves	
	· un	Spring	COGR	Common Grackle	1	0	0 - 40 m	South	00	Sex	
	S	Spring	RWBL	Red-wineed Blackhird	00		A A D See	South	90	300	
		0									

Diumal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Spasnin	Code	Speries	#	Лор	Observation	Vacioni	Shin Shin	בוויבובת נוחובת טובם	
-	-		-			-	Height	Direction	(yes/no)	(yes/no)	area
		Spring	RWBL	Red-winged Blackbird	1 1		0 - 40 m	Southwest	na	sak	
		Spring	RWBL	Red-winged Blackbird	2		0-40 m	Northwest	90	yes	
		Spring	RWBL	Red-winged Blackbird	00		0 - 40 m	Northwest	DU	yes	
		Spring	RWBL	Red-winged Blackbird	đ		0-40 m	North	ou	yes	
		Spring	EUST	European Starling	H	-	0 - 40 m	Northwest	OL	yes	
		Spring	COGR	Common Grackle	1		0 - 40 m	North	90	yes	
		Spring	EUST	European Starling	6		0 - 40 m	North	00	yes	
8-Apr-11	- 5	Spring	BOGU	Bonaparte's Gull	16	-4	40 - 180 m	North	DU.	yes	1 Minute
		Spring	EUST	European Starling	- 2	1	0 - 40 m	South	OU	yes	
		Spring	AMRO	American Robin	1		0-40 m	North	00	yes	
		Spring	RWBL	Red-winged Blackbird	3		0 - 40 m	North	Ou.	yes	
		Spring	MODO	Mourning Dove	2		0 - 40 m	West	DU	yes	
		Spring	COGR	Common Grackle	2		0 - 40 m	North	ou	yes	
		Spring	AMRO	American Robin	3		0-40 m	Northeast	2	yes	
		Spring	RWBL	Red-winged Blackbird	4		0-40 m	Northwest	ou.	yes	
		Spring	COHA	Cooper's Hawk	1		0-40 m	East	DU	yes	
		Spring	RWBL	Red-winged Blackbird	18		0-40 m	South	yes	yes	
		Spring	AMRO	American Robin	1		0 - 40 m	West	00	ves	
		Spring	RWBL	Red-winged Blackbird	18	4	40 - 180 m	North	00	yes	1 Minute
		Spring	AMRO	American Robin	1	4	40 - 180 m	Southwest	OL.	yes	1 Minute
8-Apr-11	n	Spring	RWBL	Red-winged Blackbird	7	3	40-180 m	Southeast	2	yes	1 Minute
		Spring	AMCR	American Crow	2		0 - 40 m	North	по	yes	
		Spring	TUVU	Turkey Vulture	14	4	40-180 m	North	yes	yes	3.5 Minutes
		Spring	AMRO	American Robin	2		0 - 40 m	South	no	yes	
		Spring	RWBL	Red-winged Blackbird	3		0 - 40 m	North	DO	yes	
		Spring	KILL	Killdeer	3		0 - 40 m	Southeast	оц	sak	
		Spring	COGR	Common Grackle	e		0 - 40 m	South	na	yes	
		Spring	HOLA	Horned Lark	Ŧ		0 - 40 m	South	no	yes	
		Spring	EUST	European Starling	2	_	0 - 40 m	South	ng	yes	
		Spring	COGR	Common Grackle	1	1	0 -40 m	North	OL	yes	
		Spring	TUVU	Turkey Vulture	1		0 - 40 m	Southwest	DO	yes	
		Spring	RWBL	Red-winged Blackbird	3		0 - 40 m	Northwest	no	yes	
		Spring	KILL	Killdeer	1		0 - 40 m	North	DO.	yes	
		Spring	EUST	European Starling	7	-	0 - 40 m	West	na	yes	
		Spring	ВНСО	Brown-headed Cowbird	2.		0 - 40 m	Southwest	по	yes	
1 Apr 11		Spring	HOLA	Horned Lark	1	-	0 - 40 m	East	no	yes	
11-Apr-11		Spring	RWBL	Red-winged Blackbird	m	-	0-40 m	West	90	yes	
		Spring	COGR	Common Grackle	9	1	0 - 40 m	North	na	yes	
		Spring	SOSP	Song Sparrow	1.		0 - 40 m	East	no	yes	
		Spring	KILL	Killdeer	1		0 - 40 m	West	0	yes	
		Spring	HOLA	Horned Lark	т.	7	40 - 180 m	North	no	yes	1 Minute
		Spring	RWBL	Red-winged Blackbird	T		0 - 40 m	East	DO	yes	
		Spring	HOLA	Horned Lark	2	1	0 - 40 m	South	no	yes	
		Spring	AMRO	American Robin	m		0-40 m	South	ou	yes	
		Spring	AMCR	American Crow	2		0-40 m	North	no	yes	
		Spring	EUST	European Starling	22		0 - 40 m	Northwest	no	yes	
		Spring	KILL	Killdeer	1		0 - 40 m	East	no	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date p	Point	Spason	Code	Species	41	Уор	Observation	ration	Circling	Entered Project Area	Estimated time within rooter
	-		-	-		-0.	Height	Direction	(ves/no)	(ves/no)	area
	S	Spring	TUVU	Turkey Vulture	2		40 - 180 m	North	sak	sak	2 Minutes
	S	Spring	RWBL	Red-winged Blackbird	4	Ī	0-40 m	South	92	yes	
	S	Spring	COGR	Common Grackle	2	1	0 - 40 m	South	50	yes	
	S	Spring	RWBL	Red-winged Blackbird	H		0 - 40 m	Northeast	90	yes	
	S	Spring	RWBL	Red-winged Blackbird	12		0 - 40 m	West	5	yes	
	S	Spring	COGR	Common Grackle	e a	Γ	0 - 40 m	West	DU	yes	
	S	Spring	BHCO	Brown-headed Cowbird	4		0 - 40 m	West	00	yes	
	S	Spring	AMCR	American Crow	2	-	0 - 40 m	Southeast	no	yes	
	S	Spring	AMKE	American Kestrel	ī	Ī	0 - 40 m	East	90	yes	
	S	Spring	NOHA	Northern Harrier	1		0-40m	Northwest	00	yes	
	S	Spring	RTHA	Red-tailed Hawk	7		40-180 m	South	DO	SAA	5 Minutes
	S	Spring	AMRO	American Robin	9		0 - 40 m	North	00	ves	
		Spring	TUVU	Turkey Vulture	00		>180 m	North	ves	ves	8 Minutes
11-Apr-11	2 5	Soring	RWBL	Red-winged Blackbird	3		0-40 m	Northeast	02	ves	
	S	Spring	COGR	Common Grackle	9		0 - 40 m	Northwest	Ou	Ves	
	S	Spring	RWBL	Red-winged Blackbird	4		0 - 40 m	East	92	yes.	
	S	Spring	RWBL	Red-winged Blackbird	2		0-40m	South	2	Ves	
	S	Spring	COGR	Common Grackle	÷		0 - 40 m	North	ņu	sak	
	S	Spring	BHCO	Brown-headed Cowbird	m		0 - 40 m	Northwest	DLI	yes	
	S	Spring	EUST	European Starling	00		0-40 m	Southwest	OU	yes	
	S	Spring	RTHA	Red-tailed Hawk	,,		40-180 m	North	yes	yes	3 Minutes
	S	Spring	AMRO	American Robin	3		0 - 40 m	West	no	yes	
	S	Spring	AMRO	American Robin	1	1	0 - 40 m	East	DO.	yes	
	S	Spring	AMCR	American Crow	2		0 - 40 m	Southeast	ou	yes	
	S	Spring	ВПА	Blue Jay	2		0 - 40 m	North	DU.	yes	
	S	Spring	EABL	Eastern Bluebird	1		0 - 40 m	South	no	yes	
	S	Spring	RWBL	Red-winged Blackbird	3.		0 - 40 m	Northeast	ОП	sek	
	S	Spring	AMRO	American Robin	2		0 - 40 m	Northwest	na	yes	T.
	S	Spring	AMRO	American Robin	1		0 - 40 m	South	no	yes	
	S	Spring	COGR	Common Grackle	4	1	0 - 40 m	East	DO.	yes	
	S	Spring	внсо	Brown-headed Cowbird	7		0 - 40 m	West	no	yes	
	S	Spring	EUST	European Starling	Ţ		0 - 40 m	South	no	yes	
	S	Spring	NOHA	Northern Harrier	1		0 - 40 m	Northeast	na	yes	
	S	Spring	RWBL	Red-winged Blackbird	80		0 - 40 m	Southeast	011	yes	
	S	Spring	RWBL	Red-winged Blackbird	2		0 - 40 m	Southwest	na	yes	
	S	Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	North	yes.	yes	2 Minutes
11-Apr-11	3 8	Spring	TUVU	Turkey Vulture	16		40 - 180 m	Northwest	yes	yes	5 Minutes
	S	Spring	COGR	Common Grackle	ň		0 - 40 m	North	01	yes	
	S	Spring	RTHA	Red-tailed Hawk	Ŧ		0 - 40 m	Northeast	ОП	yes	
	S	Spring	RWBL	Red-winged Blackbird	2		0 - 40 m	Southwest	no	yes	
	S	Spring	SOSP	Song Sparrow	1		0 - 40 m	South	OU	yes	
	S	Spring	AMRO	American Robin	3	-	0 - 40 m	North	na	yes	T.
	S	Spring	AMRO	American Robin	1		0 - 40 m	Northeast	DO.	yes	
	S	Spring	MALL	Mallard	2		40 - 180 m	North	00	yes	1 Minute
	S	Spring	TUVU	Turkey Vulture	5		40 - 180 m	North	na	yes	1 Minute
	S	Spring	RWBL	Red-winged Blackbird	7		0 - 40 m	Southwest	no	yes	
	5	Spring	COGR	Common Grackle	4		0 - 40 m	Northeast	92	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date P	Point	Season	Code	Species	**	Age	Observation	ration	Circling	Entered Project Area	Estimated time within rooter
Ì	п			١			Height	Direction	(Nes/no)	(ou/sak)	area
		Spring	EUST	European Starling	12		0 - 40 m	Northwest	DU	sak	
		Spring	AMRO	American Robin	1	Ī	0 - 40 m	Southeast	100	yes	
11-Apr-11	m	Spring	AMRO	American Robin	2		0 - 40 m	East	ы	yes	
		Spring	COGR	Common Grackle	т.		0 - 40 m	West	92	yes	
	3,	Spring	RWBL	Red-winged Blackbird	4		0-40 m	South	no	yes	
		Spring	HOLA	Horned Lark	1		0-40 m	Northeast	OL	yes	
	-	Spring	AMRO	American Robin	2		0 - 40 m	North	92	sak	
		Spring	AMRO	American Robin	Ŧ		0 - 40 m	South	92	yes	
		Spring	AMCR	American Crow	3	Ī	0 - 40 m	Southeast	92	hes	
	-	Spring	BHCO	Brown-headed Cowbird	2		0-40m	Southwest	92	yes	
		Spring	RWBL	Red-winged Blackbird	1		0-40m	North	DU	yes	
	21	Spring	TUVUT	Turkey Vulture	4		40-180 m	Northwest	sex	sek	4 Minutes
		Spring	AMIKE	American Kestrel	1		0-40m	East	2	yes	
	*1	Spring	AMRO	American Robin	2		0 - 40 m	East	no Ou	yes	
		Spring	HOLA	Horned Lark	Ŧ		0-40 m	West	ри	yes	
	-	Spring	HOLA	Horned Lark	1		0 - 40 m	Northwest	DU	yes	
	-	Spring	COGR	Common Grackle	7		0 - 40 m	Northeast	00	yes	
		Spring	HOLA	Horned Lark	1		0 - 40 m	North	DU	yes	
	-1	Spring	HOLA	Homed Lark			0 - 40 m	Northeast	no	yes	
		Spring	CHSP	Chipping Sparrow	1		0 - 40 m	West	01	yes	
14-Apr-11	1	Spring	AMRO	American Robin	2		0 - 40 m	Northwest	92	yes	
		Spring	AMCR	American Crow	4		0 - 40 m	Southeast	по	yes	
		Spring	TUVU	Turkey Vulture	S		40-180 m	Southwest	yes	yes	3 Minutes
	-11	Spring	AMRO	American Robin	н	Ī	0 - 40 m	West	01	yes	
		Spring	KILL	Killdeer	2		0 - 40 m	East	na	yes	
	-1	Spring	COGR	Common Grackle	.1	-	0 - 40 m	Northwest	no	yes	
		Spring	внсо	Brown-headed Cowbird	4		0-40 m	South	2	yes	
	20	Spring	TUVU	Turkey Vulture	1	-	40-180 m	North	yes	yes	5 Minutes
		Spring	KILL	Killdeer	Ŧ		0 - 40 m	South	100	yes	
		Spring	RWBL	Red-winged Blackbird	Ţ		0-40m	Northeast	2	yes	
		Spring	BHCO	Brown-headed Cowbird	H		0 - 40 m	Southeast	00	yes	
		Spring	COGR	Common Grackle	T		0-40 m	Southwest	OL OL	, yes	
	-/	Spring	AMCR	American Crow	7		0-40m	West	DQ.	yes	
		Spring	KILL	Killdeer	H		0-40m	Sauthwest	92	yes	
		Spring	AMRO	American Robin	1		0 - 40 m	East	DU	yes	
		Spring	TUVU	Turkey Vulture	1		40 - 180 m	West	yes	yes	2 Minutes
	Ī	Spring	AMRO	American Robin	r		0-40m	North	00	yes	
		Spring	EABL	Eastern Bluebird	н		0-40 m	East	2	yes	
		Spring	HOLA	Horned Lark	ř		0 - 40 m	West	2	yes	
		Spring	TUVU	Turkey Vulture	1		40-180 m	North	yes	yes	3 Minutes
		Spring	SAVS	Savannah Sparrow	7		0-40m	South	na	sek	
		Spring	TUVU	Turkey Vulture	Ŧ		40-180 m	North	yes	, ves	5 Minutes
14-Apr-11	7	Spring	RTHA	Red-tailed Hawk	1		40-180 m	East	DQ.	hes	1 Minute
		Spring	COGR	Common Grackle	4		0-40m	Northwest	92	yes	
		Spring	RWBL.	Red-winged Blackbird	7		0-40m	Southeast	02	yes	
		Spring	AMKE	American Kestrel	1		0-40 m	Sauthwest	92	yes	
		Spring	AMRO	American Robin	1		0-40 m	Southeast	92	yes	
		Spring	HOLA	Horned Lark	7		0-40 m	Northeast	no	sak	
	2	Spring	COGR	Common Grackle	9		0 40 m	Southwest	DU	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	Observation	Vation	Circing	Entered Project Area	Formulated time within 100tel
			2000				Height	Direction	(hes/uo)	(hes/no)	area
		Spring	RWBL	Red-winged Blackbird	4	1	0 - 40 m	Southeast	na	sak	
		Spring	AMCR	American Crow	2	Ī	0 - 40 m	East	OL.	yes	
		Spring	TUVU	Turkey Vulture	00	Ī	40-180 m	West	yes	yes	8 Minutes
14-Apr-11	7	Spring	ВНСО	Brown-headed Cowbird	2		0-40m	North	ou	yes	
		Spring	AMRO	American Robin	Ŧ		0 - 40 m	Northwest	9	yes	
		Spring	AMRO	American Robin	2		0 - 40 m	South	DU	yes	
		Spring		Mallard	2		0 - 40 m	Southwest	ОП	yes	
		Spring	t	American Robin	T		0 - 40 m	North	ou	səÁ	
		Spring	FISP	Field Sparrow	1		0 - 40 m	West	no	yes	
		Spring	COGR	Common Grackle	m		0 - 40 m	East	ou	yes	
		Spring	RWBL	Red-winged Blackbird	7		0 - 40 m	Northeast	DO	yes	
		Spring	AMRO	American Robin	2	Ī	0-40 m	Southeast	no	yes	
		Spring		Killdeer	2	Ī	0 - 40 m	Northwest	01	Åes	
		Spring	RWBL	Red-winged Blackbird	00	Ī	0 - 40 m	North	Du.	yes	
		Spring		Brown-headed Cowbird	'n		0 - 40 m	North	DU	yes	
		Spring	COGR	Common Grackle	4		0 - 40 m	North	no	yes	
		Spring	AMCR	American Crow	Ħ	Ī	0 - 40 m	South	92	yes	
		Spring	RTHA	Red-tailed Hawk	1		0 - 40 m	West	DU	yes	
		Spring	EAME	Eastern Meadowlark	1		0 - 40 m	Northwest	00	yes	
		Spring	AMRO	American Robin	2		0 - 40 m	Southeast	OL.	yes	
		Spring	RWBL	Red-winged Blackbird	8	Ī	0 - 40 m	Northeast	Du.	yes	
		Spring	COGR	Common Grackle	2	Ī	0 - 40 m	Southeast	па	yes	
		Spring	TUVU	Turkey Vulture	80		40 - 180 m	Northeast	yes	yes	4 Minutes
14 400 44	r	Spring	AMRO	American Robin	7		0 - 40 m	West	no	yes	
4-Apr-11	2	Spring	EUST	European Starling	7		0 - 40 m	Northeast	na	yes	
		Spring		Brown-headed Cowbird	2		0 - 40 m	North	DU	yes	
		Spring	Ш	American Robin	1		0 - 40 m	Northwest	00	yes	
		Spring		American Robin	3		0 - 40 m	Southeast	ou	yes	
		Spring	ы	Red-winged Blackbird	2		0 - 40 m	Northwest	no	yes	
		Spring]	Turkey Vulture	Ħ		0 - 40 m	South	00	yes	
		Spring	.1	American Crow	2		40 - 180 m	East	OU	yes	1 Minute
		Spring	RWBL	Red-winged Blackbird	Ŧ		0 - 40 m	East	00	yes	
		Spring	RTHA	Red-tailed Hawk	1		0 - 40 m	East	DO	yes	
		Spring	AMCR	American Crow	H		40 - 180 m	Northwest	ou 0	yes	1 Minute
		Spring	EUST	European Starling	2		0 - 40 m	South	na	yes	
		Spring	EABL	Eastern Bluebird	2		0 - 40 m	West	OU	yes	
		Spring	AMRO	American Robin	Ŧ		0 - 40 m	East	00	yes	
		Spring	TRES	Tree Swallow	н		0 - 40 m	North	yes	yes.	
		Spring	KILL	Killdeer	el.		0 - 40 m	East	00	yes	_
		Spring	BRNS	Barn Swallow	1		D - 40 m	West	yes	yes	
		Spring	TUVU	Turkey Vulture	1		40 - 180 m	South	yes	yes	2 Minutes
		Spring	AMCR	American Crow	2		0 - 40 m	North	DU	sex	
		Spring	COGR	Common Grackle	3	Ī	0 - 40 m	West	DQ.	yes	
		Spring	BRNS	Barn Swallow	1		0 - 40 m	North	yes	yes	
15-Apr-11	+	Spring	HOLA	Horned Lark	3		0 - 40 m	East	90	yes	
1	4	Spring	AMRO	American Robin	2		0 - 40 m	Northwest	92	yes	
		Spring	MALL	Malfard	2		0-40 m	Northwest	92	yes	
		Spring	AMRO	American Robin	+		0 - 40 m	East	ng	ves	
		Spring	CHSP	Chipping Sparrow	Ŧ	Ī	0 - 40 m	West	na	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Spasnin	Code	Speries	21	Уор	area.	COSEIVARION	Simon	emered Project Area	Estimated time within 100ter
	-	-	anna.	- Committee		-94	Height	Direction	(ves/no)	(ves/no)	area
		Spring	ВНСО	Brown-headed Cowbird	1		0 - 40 m	East	DU	sań	
		Spring	HOLA	Horned Lark	1	7	0 - 40 m	North	92	yes	
		Spring	BHCO	Brown-headed Cowbird	2		040 m	Northeast	DU	yes	
		Spring	HOLA	Homed Lark	7		0 - 40 m	Northeast	ou	yes	
		Spring	HOLA	Horned Lark	7		0 - 40 m	East	5	yes	
		Spring	HOLA	Horned Lark	2	Γ	0 - 40 m	South	DU	yes	
		Spring	CHSP	Chipping Sparrow	1		0 - 40 m	East	00	yes	
		Spring	CHSP	Chipping Sparrow	1		0 - 40 m	North	no	yes	
		Spring	AMRO	American Robin	1	Ī	0-40 m	East	0U	yes	
		Spring	TUVUT	Turkey Vulture	1		40-180 m	Southeast	yes	ķes	6 Minutes
		Spring	AMCR	American Crow	+	Ī	0-40m	East	DU.	ves	
15-Apr-11	Н	Spring	AMRO	American Robin	2		0 - 40 m	Northwest	00	yes	
		Spring	AMRO	American Robin	1		0 - 40 m	North	ou	yes	
		Spring	TUVU	Turkey Vulture	,,		0-40 m	Northeast	sek	yes	
		Spring	TUVUT	Turkey Vulture	7		0 - 40 m	Southeast	no	Ves	
		Spring	BRNS	Barn Swallow	H		0 - 40 m	East	010	yes	
		Spring	TUVUT	Turkey Vulture	2	Ī	40 - 180 m	Southeast	sav	yes	5 Minutes
		Spring	RSHA	Red-shouldered Hawk	+		0-40 m	North	ou.	yes	
		Spring	TUVU	Turkey Vulture	4		40 - 180 m	North	sək	yes	7 Minutes
		Spring	BRNS	Barn Swallow	1		0 - 40 m	Northwest	OU	yes	
		Spring	RWBL	Red-winged Blackbird	2		0-40 m	Northwest	00	yes	
		Spring	AMRO	American Robin	1		0 - 40 m	North	no	yes	
		Spring	RWBL	Red-winged Blackbird	2	Ī	0 - 40 m	Southeast	DU	yes	
		Spring	BRNS	Barn Swallow	1		0-40 m	Northwest	no no	yes	
		Spring	HOLA	Horned Lark	1		0 - 40 m	Southwest	no	yes	
		Spring	TUVU	Turkey Vulture	3		40-180 m	Southeast	yes	yes	12 Minutes
		Spring	EUST	European Starling	2		0-40 m	South	00	yes	
		Spring	EUST	European Starling	00		0 - 40 m	East	ou	yes	
		Spring	BAEA	Bald Eagle	1	Adult	40 - 180 m	Northeast	yes	yes	2 Minutes
		Spring	RWBL	Red-winged Blackbird	18		0 - 40 m	North	no	yes	
		Spring	COHA	Cooper's Hawk	H		0-40 m	North	no	yes	
		Spring	HOLA	Horned Lark	2		0 - 40 m	West	02	yes	
		Spring	EUST	European Starling	9		0 - 40 m	Northeast	ou.	yes	
		Spring	HOLA	Homed Lark	,-1		0 - 40 m	West	ou	yes	
15-Apr-11	7	Spring	RWBL	Red-winged Blackbird	3		0 - 40 m	Southeast	no	yes	
		Spring	KILL	Killdeer	1		0-40 m	Northeast	ou	yes	
		Spring	COHA	Cooper's Hawk	1		0 - 40 m	North	DO	yes	
		Spring	AMKE	American Kestrel	7		0-40 m	East	OU	yes	
		Spring	AMRO	American Robin	Ŧ		0 - 40 m	Southwest	9	sek	
		Spring	COGR	Common Grackle	3		0 - 40 m	Southeast	no	yes	
		Spring	RWBL	Red-winged Blackbird	7		0 - 40 m	North	no	yes	
		Spring	COGR	Common Grackle	2		0 - 40 m	North	no	yes	
		Spring	BHCO	Brown-headed Cowbird	2	Ī	0 - 40 m	West	DO.	yes	
		Spring	HOLA	Horned Lark	1	Ī	0 - 40 m	East	00	yes	
		Spring	AMRO	American Robin	H		0 - 40 m	West	pu	yes	
		Spring	TUVU	Turkey Vulture	4		40 - 180 m	Southeast	yes	yes	6 Minutes
		Soring	AMRO	American Robin	1	Ī	0-40 m	North	OU	ves	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Spason	Code	Speripe	**	Убр	Observation	ation	Circling	Entered Project Area	Estimated time within rooter
-	1	100000	ahin-	rande .			Height	Direction	(hes/uo)	(ves/no)	area
		Spring	EUST	European Starling.	4	0	0 - 40 m	West	na	yes	
		Spring	KILL	Killdeer	1	1-0	0 - 40 m	East	01	yes	
		Spring	TUVU	Turkey Vulture	1	40-:	40 - 180 m	East	DO	yes	1 Minute
		Spring	AMRO	American Robin	Ħ	1-0	0 - 40 m	East	OU	yes	
		Spring	RWBL	Red-winged Blackbird	1	1-0	0 - 40 m	South	20	yes	
		Spring	WITU	Wild Turkey	н	1-0	0 - 40 m	West	OL.	yes	
		Spring	RWBL	Red-winged Blackbird	1	1-0	0 - 40 m	Northeast	2	yes	
		Spring	RWBL	Red-winged Blackbird	1	1-0	0 - 40 m	East	OU	yes	
15-Apr-11	າ	Spring		Turkey Vulture	4	40-	40 - 180 m	Southeast	yes	yes	2 Minutes
		Spring	RTHA	Red-tailed Hawk	Ŧ	0	0 - 40 m	East	92	yes	
		Spring	AMRO	American Robin	8	,-0	0-40 m	Southeast	no	yes	
		Spring		Common Grackle	2	1-0	0 - 40 m	Southwest	OL	Åes	
		Spring		American Robin	1	0	0-40 m	South	ou	yes	
		Spring		American Crow	3	0-0	0-40 m	Northeast	92	yes	
		Spring		Common Grackle	4	0	0 - 40 m	Northwest	OL.	Ves	
		Spring		Red-winged Blackbird	7	0	0 - 40 m	North	00	yes	
		Spring	RWBL	Red-winged Blackbird	25	40-1	40 - 180 m	Southeast	00	yes	1 min
		Spring	TUVU	Turkey Vulture	1	40-3	40 - 180 m	Southwest	yes	yes	3 min
		Spring	TUVU	Turkey Vulture	1	40-2	40 - 180 m	Northeast	yes	yes	2 min
		Spring	HOLA	Horned Lark	S	0-0	0 - 40 m	South	92	yes	1
		Spring	UVUT	Turkey Vulture	н	40-3	40 - 180 m	Southeast	yes	yes	2 min
		Spring	wobu	Wood Duck	1	40 - 3	40 - 180 m	West/Northwest	DO.	yes	1 min
		Spring	COGR	Common Grackle	1	40-3	40 - 180 m S	South/Southeast	no	yes	1 min
		Spring		Mourning Dove	1	7-0	0-40 m	North/Northeast	ou	yes	
		Spring		Red-winged Blackbird	2	7-0	0 - 40 m	Southwest	ОП	yes	1
		Spring	COGR	Common Grackle	2	7-0	0-40 m S	South/Southwest	DO	yes	,
		Spring	KILL	Killdeer	2	7-0	0-40 m	East	2	yes	
		Spring		Horned Lark	2	7-0	0 - 40 m	East	no	yes	
		Spring	Н	Turkey Vulture	1	40-3	40 - 180 m	South	yes.	yes	2 min
		Spring	EUST	European Starling	2	7-0	0 - 40 m	North	OU.	yes	9
		Spring	TUVU	Turkey Vulture	1	40-3	40 - 180 m	North	yes	yes	8 min
A 4.0		Spring	AMCR	American Crow	1	7-0	0 - 40 m	West/Northwest	ОП	yes	
ZU-Apr-11	4	Spring	AMCR	American Crow	1	7-0	0 - 40 m	East	DU	yes	
		Spring	AMCR	American Crow	2	7-0	0-40 m	North	DO.	yes	
		Spring	HOLA	Horned Lark	1	7-0	0 - 40 m	Southeast	по	yes	
		Spring	KILL	Killdeer	1	40-3	40 - 180 m S	South/Southwest	no	yes	1 min
		Spring	TUVU	Turkey Vulture	2	40-3	40 - 180 m N	North/Northeast	yes	yes	5 min
		Spring	TUVU	Turkey Vulture	Ŧ	40-	40 - 180 m	Northeast	yes	yes	3 min
		Spring	HOLA	Horned Lark	1	7-0	0 - 40 m	Southeast	2	yes	
		Spring	EUST	European Starling	5	7-0	0 - 40 m	Northwest	00	yes	
		Spring	RTHA	Red-tailed Hawk	1	40-1	40 - 180 m	Southeast	yes	yes	3 min
		Spring	EUST	European Starling	3	7-0		North/Northeast	no	yes	
		Spring	AMRO	American Robin	2	40-		North/Northwest	na	yes	T
		Spring	AMKE	American Kestrel	1	40-	40 - 180 m	North	yes	yes	1 min
		Spring	COGR	Common Grackle	2) - O - F	0-40 m	Northeast	no	yes	
		Spring	TUVU	Turkey Vulture	J.	40-1	40 - 180 m	West	yes	yes	5 min
		Spring	HOLA	Horned Lark	3	1-0	0 - 40 m	Northwest	no	yes	
		Spring	GBHE	Great Blue Heron	1	40 - 7	40 - 180 m N	North/Northeast	no Di	ves	1 min

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Spason	Code	Speries	21	Арр	\$05	Observation	Circling	Entered Project Area	Estimated time within rooter
	-	1	anna .	research .		-94	Height	Direction	(yes/no)	(ou/sak)	area
		Spring	EUST	European Starling.	4	1	0-40 m	Southwest	DU	yes	
	31	Spring	TUVU	Turkey Vulture	5	Ī	0-40 m	West	OL.	yes.	111
	31	Spring	CAGO	Canada Goose	9		0-40 m	North/Northeast	20	yes	T .
	-1	Spring	COGR	Common Grackle	2		0-40m	North	DU.	ves	7
	~1	Spring	TUVU	Turkey Vulture	4		40 - 180 m	South	yes	yes	2 min
		Spring	AMCR	American Crow	,		0 - 40 m	East	92	yes	1
	91	Spring	EUST	European Starling	3		0 - 40 m	West	92	yes	Y
	41	Spring	AMRO	American Robin	1		0-40 m	Northeast	no	yes	
		Spring	COGR	Common Grackle	1		40 - 180 m	North/Northwest	92	Ves	1 min
		Spring	AMCR	American Crow	-		0 - 40 m	Northeast	00	800	
		Cordina	TIMIL	Turkou Walfarro	-	Ī	AD 180 m	Courth	Store	oon	cies
		Spring	NOHA	Northern Harrion			0.40m	South	0	Yes	
20-Apr-11	2	Similar	MUNIC	Northern harrier	4		110th - 0	unos .	2	, co	
		Spring	COGR	Common Grackle	r		40 - 180 m	North/Northeast	90	yes	1 min
	-1	Spring	AMCR	American Crow	1		0 - 40 m	North	ОП	yes	Y
	21	Spring	EUST	European Starling	1		0 - 40 m	North/Northwest	no	yes	***
	41	Spring	RTHA	Red-tailed Hawk	н		40 - 180 m	North/Northeast	sek	yes	3 min
	31	Spring	RWBL	Red-winged Blackbird	S		0 - 40 m	Southwest	92	yes	Y
	-1	Spring	COGR	Common Grackle	1		0 - 40 m	West	no	yes	
		Spring	EUST	European Starling	9		0 - 40 m	West/Northwest	OL.	VPS	1
		Soring	AMPI	American Piort	3		40-180 m	North	02	Ves	1 min
		Sorring	AMRO	American Robin	ব		0 - 40 m	North/Northeast	92	NAS NAS	
	. 4	Spring	TIMIT	Turken Vidhore		Ī	40 - 180 m	West/Southwest	Star	200	2 min
		Spring	DANIA.	Turkey Voltaire			40 180 m	Fact	yes	Yes	o cime C
i		Spring	0.00	Comment Consider	4 4	T	1100	Ten		2	7
		Spring	COGR	Common Grackie	Ý		0-40 m	Northwest	OU.	yes	v i
	4	Spring	TUVU	Turkey Vulture	1		40 - 180 m	North/Northeast	00	ves	2 min
	-1	Spring	TUVU	Turkey Vulture	,		40 - 180 m	Southwest	yes	yes	3 min
	-1	Spring	COGR	Common Grackle	3		0 - 40 m	West	00	yes	
	4,	Spring	EUST	European Starling.	3		0 - 40 m	West	no	yes	
	31	Spring	TUVU	Turkey Vulture	. 2		40 - 180 m	East	yes	yes	2 min
	51	Spring	BAEA	Bald Eagle	1	3 yrs	40 - 180 m	East/Southeast	DO.	yes	1 min
	21	Spring	AMRO	American Robin	m		0-40 m	West	OU	yes	
	~1	Spring	COGR	Common Grackle	4		0 - 40 m	Southwest	92	yes	
		Spring	COGR	Common Grackle	7		0 - 40 m	West	ou.	yes	T
	31	Spring	TUVU	Turkey Vulture	2		40 - 180 m	Northeast	yes	yes	2 min
	41	Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	Southwest	yes	yes	2 min
20-Apr-11	51	Spring	COGR	Common Grackle	1		0 - 40 m	North	90	yes	
	91	Spring	AMRO	American Robin	1		0 - 40 m	South	92	yes	
	-	Spring	KILL	Killdeer	2		0 - 40 m	East	DU	yes	
	51	Spring	EUST	European Starling	e		0 - 40 m	West	2	ves	1
	31	Spring	BHCO	Brown-headed Cowbird	S		0 - 40 m	Northeast	2	yes	ý
	- 51	Spring	COGR	Common Grackle	3		40 - 180 m	North	OU	yes	1 min
	41	Spring	AMCR	American Crow	2		0 - 40 m	East	OL.	yes	T
	- 51	Spring	MODO	Mourning Dove	2		0 - 40 m	West	DL.	yes	T
	51	Spring	TUVU	Turkey Vulture	1		40 - 180 m	Southeast	sak	yes	2 min
	-1	Spring	TUVU	Turkey Vulture			40 - 180 m	Northwest	sak	yes	2 min
	-	Spring	EUST	European Starling.	4		0 - 40 m	West	ОП	yes	
		Spring	AMCR	American Crow	m		0 - 40 m	Southwest	OU	Ves	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age		Coselvation	9	Emereu Project Area	The same of the sa
and the same							Height	Direction	(hes/uo)	(hes/no)	area
		Spring	EUST	European Starling	9	1	0-40 m	East	DU	yes	
		Spring	TUVU	Turkey Vulture	1	Ī	40 - 180 m	North	yes	yes.	2 min
ZU-Apr-11	77	Spring	COGR	Common Grackle	Ŧ		0-40 m	North	pu	yes	1
		Spring	AMRO	American Robin	Ħ	r	0-40 m	Southwest	00	yes	1
		Spring	COGR	Common Grackle	3.		0 - 40 m	Southwest	ou	sek	1
		Spring	TUVU	Turkey Vulture	1		40 - 180 m	Northeast	yes	yes	2 min
		Spring	RTHA	Red-tailed Hawk	7		40 - 180 m	Southwest	yes	sek	4 min
		Spring	RWBL	Red-winged.Blackbird	3		0 - 40 m	West	DU	sek) T
		Spring	EUST	European Starling	9		40 - 180 m	Southeast	DO	yes	1 min
		Spring	TUVU	Turkey Vulture	н		40-180 m	Southwest	yes	yes	3 min
		Soring	TUVU	Turkey Vulture	1		40-180 m	Southeast	ves	ves	2 min
		Saring	COGR	Common Grackle			40 - 180 m	South	00	Sept	1 m
		Spring	CAGO	Canada Goose	4	T	40 - 180 m	Northwest	00	2 2	1 min
		Soring	AMRO	American Robin	2		0 - 40 m	East	ou	SdA	
		Spring	KILL	Killdeer	2	1	0-40 m	East	92	Ves	
		Soring	EUST	European Starling	m		40 - 180 m	Northeast	00	ves	1 min
		Spring	TUVU	Turkey Vulture	H		40-180 m	North/Northwest	yes	yes	3 min
		Spring	COGR	Common Grackle	3		0 - 40 m	South	no	yes	
		Spring	AMCR	American Crow	4		0 - 40 m	West	pu	yes	7
21-Apr-11	+	Spring	EUST	European Starling	2	11	0 - 40 m	North	OL.	sak	Y
		Spring	HOLA	Horned Lark	3		0 - 40 m	East	na	sek	0
		Spring	COGR	Common Grackle	1		40 - 180 m	Northwest	DO.	yes	100
		Spring	MODO	Mourning Dove	2		0 - 40 m	North	DO	yes	*
		Spring	AMCR	American Crow	1		40 - 180 m	North	no	yes	1 min
		Spring	RWBL	Red-winged Blackbird	4		0 - 40 m	North/Northeast	ОП	yes	
		Spring		Brown-headed Cowbird	60		40 - 180 m	West	DU	yes	1 min
		Spring		Common Grackle	S		40 - 180 m	Northwest	00	yes	1 min
		Spring	U	Turkey Vulture	1		40 - 180 m	West	yes	yes	2 min
		Spring	Ш	American Robin	m		0 - 40 m	North	no	yes	
		Spring	HOLA	Horned Lark	2		0 - 40 m	West	no	yes	7
		Spring	COGR	Common Grackle	ĸ		0 - 40 m	North/Northeast	no	yes	Y
		Spring	AMCR	American Crow	2		0 - 40 m	Northeast	00	yes	,
		Spring	RWBL	Red-winged Blackbird	2		0 - 40 m	South	na	*se*	,
		Spring	RTHA	Red-tailed Hawk	н		40 - 180 m	Southeast	yes	yes	3 min
		Spring	KILL	Killdeer	2		0 - 40 m	East	no	yes	
	ľ	Spring	TUVU	Turkey Vulture	2		40 - 180 m	Northwest	yes	yes	2 min
		Spring	RWBL	Red-winged Blackbird	4		0 - 40 m	West	ou	yes	,
		Spring	COGR	Common Grackle	.1	1	0 - 40 m	West	na	yes	
		Spring	MODO	Mourning Dove	ĸ		0 - 40 m	North	na	yes	,
		Spring	AMCR	American Crow	2		0 - 40 m	Southwest	2	yes	
		Spring	AMRO	American Robin	н		40 - 180 m	Northeast	na	yes	1 min
21-Anr-11	2	Spring	GBHE	Great Blue Heron	Ħ.		40 - 180 m	North	OU	sek	1 min
-	ı	Spring	COGR	Common Grackle	3		0-40 m	West	OU	yes	4
		Spring	TUVU	Turkey Vulture	н		40-180 m	Southwest	yes	yes	3 min
		Spring	RTHA	Red-tailed Hawk	1		40 - 180 m	Northwest	yes	yes	2 min
		Spring	CAGO	Canada Goose	4		40 - 180 m	North/Northeast	no	yes	1 min
		Spring	COGR	Common Grackle	1		0-40 m	North	OL	yes	, (
		Spring	COGR	Common Grackle	н		0 - 40 m	Northwest	na	yes	
		Spring	AMCR	American Crow	1		0 - 40 m	North	00	Vas	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#i	Age		COSSIVACION	Surana	בוויבובת גוסובת שובם	TOTAL THE MINING TOTAL
			40.00				Height	Direction	(ves/no)	(hes/no)	area
	is s	Spring	TUVU	Turkey Vulture	1		40 - 180 m	East	sak	yes	2 min
	S	Spring	SOSP	Song Sparrow	1		0 - 40 m	West	22	yes	1
	Sc	Spring	AMRO	American Robin	2		0-40 m	Northeast	22	Ves	y
	S	Spring	COGR	Common Grackle	11		0 - 40 m	Southwest	DU	ves	Y
21-Apr-11	2 50	Spring	RWBL	Red-winged Blackbird	8		0 - 40 m	Southeast	00	ves	
_		Spring	COGR	Common Grackle	8		0-40 m	Northwest	DU	yes	,
	S	Spring	COGR	Common Grackle	1		0 - 40 m	North	2	yes	,
	SE	Spring	RWBL	Red-winged Blackbird	9		0 - 40 m	South	no	yes	T
	S	Spring	AMRO	American Robin	2		0 - 40 m	North	na	yes	
	S	Spring	COGR	Common Grackle	7		0 - 40 m	West/Southwest	00	yes	2
	S	Spring	TUVU	Turkey Vulture	2		40 - 180 m	West	yes	yes	4 min
	S	Spring	TUVU	Turkey Vulture	3		40 - 180 m	East/Southeast	sex	yes	2 min
	S	Spring	AMRO	American Robin	1		0 - 40 m	South	92	yes	
	Sc	Spring	COGR	Common Grackle	н		40 - 180 m	North	na	yes	1 min
	S	Spring	EUST	European Starling	2		0 - 40 m	West	92	yes	
	S	Spring	EUST	European Starling	4		0 - 40 m	Northeast	DU	yes	Y
	S	Spring	AMCR	American Crow	,,		40 - 180 m	Southeast	2	yes	1 min
	S	Spring	AMCR	American Crow	3		0 - 40 m	North	OU.	yes	
	S	Spring	COGR	Common Grackle	2		0 - 40 m	West	no	yes)
	Š	Spring	RWBL	Red-winged Blackbird	3		0 - 40 m	West	ОП	yes	
	S	Spring	AMRO	American Robin			0 - 40 m	South	na	yes	
	S	Spring	TUVU	Turkey Vulture	1		40 - 180 m	North	yes	yes	2 min
	35	Spring	MODO	Mourning Dove	2		0-40 m	Northeast	no	yes	7
	S	Spring	EUST	European Starling	2		0 - 40 m	East/Northeast	no	yes	Y
21 Apr 11	ds c	Spring	AMCR	American Crow	1		40 - 180 m	North	ОП	ves	1
1		Spring	COGR	Common Grackle	2		0 - 40 m	West/Southwest	2	yes	y
	Ś	Spring	AMRO	American Robin	1		0 - 40 m	South	00	hes	Y
	35	Spring	COGR	Common Grackle	2		0 - 40 m	West/Southwest	ou	yes	
	35	Spring	COGR	Common Grackle	6		0 - 40 m	East	92	yes.	- Ye
	S	Spring	EUST	European Starling	2		0-40 m	East	no	yes	
	S	Spring	COGR	Common Grackle	12		0 - 40 m	East	no	yes	
	Ś	Spring	RWBL	Red-winged Blackbird	10		40 - 180 m	East/Northeast	OU	ves	1 min
	35	Spring	BAEA	Bald Eagle	r,	3 yrs	40 - 180 m	West/Southwest	DQ.	yes	2 min
	S	Spring	RTHA	Red-tailed Hawk	ŗΗ		40 - 180 m	North	yes	yes	1 min
	35	Spring	COGR	Common Grackle	1		0 - 40 m	North	yes	yes	
	15	Spring	COGR	Common Grackle	2		0 - 40 m	West	92	yes	-10
	S	Spring	RWBL	Red-winged Blackbird	1		0 - 40 m	West	00	yes	7
	S	Spring	COHA	Cooper's Hawk	÷		40 - 180 m	West/Northwest	na	yes	1 min
	S	Spring	COGR	Common Grackle	9		0 - 40 m	East	20	yes	,
	35	Spring	EUST	European Starling	3		0 - 40 m	North	OU	yes	<i>/</i>
	S	Spring	TUVU	Turkey Vulture	1		40 - 180 m	East	yes	yes	2 min
	Ś	Spring	TUVU	Turkey Vulture	2		40 - 180 m	Northeast	yes	yes	2 min
	S	Spring	COGR	Common Grackle	Ţ		0 - 40 m	Northwest	na	yes	*
	S	Spring	AMRO	American Robin	2		40~180 m	North/Northwest	20	yes	1 min
33 Apr 11	ds t	Spring	AMCR	American Crow	1		0 - 40 m	South	no	yes	
		Spring	COGR	Common Grackle	3		0 - 40 m	Southeast	Di.	yes	1
	Ś	Spring	EUST	European Starling	4		0 - 40 m	West	OL.	yes	
	S	Spring	TUVU	Turkey Vulture	2		40 - 180 m	Southwest	ves	yes	2 min
	S	Spring	COGR	Common Grackle	ri .		0 - 40 m	North	no no	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	Coas	Observation	9,1112	בוויבובה זוסובה טובה	
-	Ð		-	-			Height	Direction	(yes/no)	(ves/no)	area
Ī	S	Spring	EUST	European Starling	3.	1	0-40 m	Southeast	DU	yes	
	S	Spring	AMRO	American Robin	1		0 - 40 m	South	22	yes	7
	S	Spring	RTHA	Red-tailed Hawk	1	4	40 - 180 m	Southeast	yes	yes	2 min
	Š	Spring	COGR	Common Grackle	1	F	0-40 m	Northwest	DU.	yes	
		Spring	RWBL	Red-winged Blackbird	m	1	0 - 40 m	West	OL.	yes	
22-Apr-11	75	Spring	TUVU	Turkey Vulture	2	4	40 - 180 m	Northeast	sek	kes	3 min
	S	Spring	COGR	Common Grackle	m		0 - 40 m	Northwest	22	yes	Y
	5	Spring	AMRO	American Robin	2	T. I.	0 - 40 m	North	00	yes	
	S	Spring		Common Grackle	æ	-	0-40 m	Northwest	92	yes	
	S	Spring	TUVUT	Turkey Vulture	1	4	40 - 180 m	South	yes	yes	2 min
	35	Spring	ı	Rock Pigeon	3		0-40 m	Northeast	no	yes	
	Š	Spring		Killdeer	1		0-40 m	Southwest	00	yes)
	S	Spring	١,	Red-winged Blackbird	3		0 - 40 m	North/Northwest	2	ves	X
	Š	Spring		European Starling	4		0 - 40 m	North/Northwest	DU.	yes	
	S	Spring		Common Grackle	2		0-40 m	Southeast	011	yes	
	S	Spring		Common Grackle	2	4	40 - 180 m	East	2	yes	-
	S	Spring		Mallard	2		0 - 40 m	Southeast	02	yes	Y
	S	Spring		Common Grackle	1	4	40 - 180 m	East	00	yes	1 min
	S	Spring	AMCR	American Crow	1		0 - 40 m	North	no	sek	7
23. Apr. 11	JS t	Spring		Common Grackle	2	4	40 - 180 m	South	ОП	sek	1 min
11-ldw-7		Spring		Horned Lark	н.	-	0 - 40 m	East	no	sek	
	S	Spring	U	American Crow	2		0 - 40 m	South	DO.	yes	
	35	Spring	М	Red-winged Blackbird	S	4	40 - 180 m	South	100	yes	1 min
	S	Spring	EUST	European Starling	5	14	40 - 180 m	South	OU	yes	1 min
	Ś	Spring		Common Grackle	3	1	0 - 40 m	North	ОП	yes	
	S	Spring		Common Grackle	2	4	40 - 180 m	Northeast	2	yes	1 min
	Š	Spring	AMCR	American Crow	2		0 - 40 m	North	OL	yes	
	5	Spring	HOLA	Horned Lark	1		0 - 40 m	Southwest	no	yes	
	S	Spring	COGR	Common Grackle	1	1	0-40 m	North	DO .	yes.	
Ì	Š	Spring	AMRO	American Robin	- 2	100	0-40 m	Northwest	20	sak	Y
	Š	Spring	COGR	Common Grackle	3		0 - 40 m	West	ы	sak	Y
	S	Spring	RWBL	Red-winged Blackbird	9	Ĭ	0 - 40 m	Northwest	no	yes	
	Š	Spring	AMRO	American Robin	3	44	40 - 180 m	North	OL	yes	1 min
	S	Spring	KILL	Killdeer	2		0 - 40 m	East	no	yes	
	S	Spring	COGR	Common Grackle	1	1	0-40 m	South	no	yes.	-1-
	15	Spring	MODO	Mourning Dove	2	10.	0-40 m	North	DO.	yes	
	S	Spring	EUST	European Starling	ió.	1	0-40 m	Southwest	ou	yes	Y
		Spring	RWBL	Red-winged Blackbird	3	-	0 - 40 m	East	DU DU	yes	,
22-Apr-11	S.	Spring	AMRO	American Robin	1		0 - 40 m	South	no	sek	r
	Š	Spring	TUVU	Turkey Vulture	2	4	40 - 180 m	Southwest	sek	yes	2 min
	S	Spring	RTHA	Red-tailed Hawk	7	ক	40 - 180 m	Northeast	yes	se/.	1 min
	S	Spring	COGR	Common Grackle	3		0 - 40 m	Northwest	no	yes	
	S	Spring	TUVU	Turkey Vulture	1	10	40 - 180 m	South	yes	yes	2 min
	S	Spring	CAGO	Canada Goose	2	4	40 - 180 m	Northwest	no	yes	1 min
	5	Spring	AMRO	American Robin	Ŧ		0 - 40 m	Southeast	DU	yes	
	3	Soring	AMCR	American Crow	2		0 - 40 m	Northeast	no	SeA	

Date	Point	Season	Code	Species	#	Age	COOSE	Observation	CITCHING	Entered Project Area	Estimated time within rooter
					-	0	Height	Direction	(\ou/sa\)	(yes/no)	area
		Spring	RWBL	Red-winged Blackbird	2		0 - 40 m	West	na	yes	
		Spring	PESA	Pectoral Sandpiper	23	0	0 - 40 m	East/Northeast	92	yes	
		Spring	HOLA	Horned Lark	2	3	0 - 40 m	North	pu	yes	
		Spring	COGR	Common Grackle	2		0 - 40 m	North	00	yes	
		Spring	AMCR	American Crow	Ŧ	0	0 - 40 m	South	00	yes	
		Spring	KILL	Killdeer	1	3	0 - 40 m	West	na	yes	
		Spring	CAGO	Canada Goose	2	40	40 - 180 m	Southeast	92	yes	1 Minute
		Spring	RWBL	Red-winged Blackbird	1		0 - 40 m	West	no	yes	
		Spring	RWBL	Red-winged Blackbird	1		0 - 40 m	West	OU	yes	
24-Apr-11	H	Spring	HOLA	Horned Lark	1		0 - 40 m	East	ОП	yes	
		Spring	BRNS	Barn Swallow	r)		0 - 40 m	South	no	yes	
		Spring	KILL	Killdeer	Ŧ	3	0 - 40 m	North	.00	, ves	
		Spring	AMRO	American Robin	T		0 - 40 m	Southeast	DU	yes	
		Spring	COGR	Common Grackle	1	0	0-40 m	East	00	yes	
		Spring	RWBL	Red-winged Blackbird	×		0 - 40 m	East/Northeast	OL.	yes	
		Spring	RWBL	Red-winged Blackbird	.2		0 - 40 m	East	OU	yes	
		Spring	BRNS	Barn Swallow	9	0	0 - 40 m	North	sak	yes	
		Spring	AMCR	American Crow	Ŧ	0	0 - 40 m	East/Northeast	pu	ves	
		Spring	TUVU	Turkey Vulture	Ŧ	40	40 - 180 m	South	ОП	yes	1 Minute
		Spring	BRNS	Barn Swallow	1		0 - 40 m	Northwest	ОП	sań	
		Spring	RWBL	Red-winged Blackbird	1	0	0 - 40 m	West	2	yes	
		Spring	HOLA	Horned Lark	2	0	0 - 40 m	South	2	yes	
		Spring	KILL	Killdeer	1	0	0 - 40 m	Southeast	DU	yes	
		Spring	EUST	European Starling	3	0	0 - 40 m	North	OU	yes	
		Spring	HOLA	Horned Lark	1	3	0 - 40 m	East	no	yes	
		Spring	EAME	Eastern Meadowlark	1	0	0 - 40 m	East	DU	yes	
		Spring	TUVU	Turkey Vulture	1	40	40 - 180 m	Southeast	yes	yes	2 Minutes
24-Apr-11	7	Spring	KILL	Killdeer	1	0	0 - 40 m	Southwest	na	yes	
		Spring	TUVU	Turkey Vulture	. 2	40	40 - 180 m	South	yes.	yes	4 Minutesa
		Spring	EABL	Eastern Bluebird	2	3	0 - 40 m	West	no	yes	
		Spring	AMRO	American Robin	1	9	0 - 40 m	South	ou	yes	
		Spring	RWBL	Red-winged Blackbird	on l	0	0 - 40 m	West	OU	yes	
		Spring	COGR	Common Grackle	2		0 - 40 m	West	DU	hes	
		Spring	KILL	Killdeer	н	9	0 - 40 m	North	00	yes	
		Spring	EUST	European Starling	2	3	0 - 40 m	Southwest	na	yes	
		Spring	TUVU	Turkey Vulture	3	40	40 - 180 m	North	yes	yes	2 Minutes
		Spring	ndow	Wood Duck	1	3	0 - 40 m	West/Southwest	ou	yes	
		Spring	AMRO	American Robin	1	0	0 - 40 m	Southeast	na	yes	
		Spring	MODO	Mourning Dove	ĸ	0	0 - 40 m	West	no	yes	
		Spring	AMRO	American Robin	1	3	0-40 m	North	OL.	yes	
		Spring	COGR	Common Grackle	н.		0 - 40 m	South	no	yes	
		Spring	AMGO	American Goldfinch	H	0	0 - 40 m	Southeast	DO.	yes	
24-Apr-11	m	Spring	MALL	Mallard	2	1	0 - 40 m	East/Northsouth	no	yes	
		Spring	BRNS	Barn Swallow	1,		0-40 m	South	00	yes	
		Spring	KILL	Killdeer	1	0	0 - 40 m	East	no	yes	
		Spring	AMRO	American Robin	1	3	0 - 40 m	North	DQ.	yes	
		Spring	KILL	Killdeer	1		0-40 m	South	2	yes	
		Spring	SOSP	Song Sparrow	2	0	0 - 40 m	North	na	yes	
		Spring	COGR	Common Grackle	'n	3	0 - 40 m	West	DU	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	Observation	ation	Circling	Entered Project Area	Estimated time within rooter
						He	Height	Direction	(yes/no)	(yes/no)	area
		Spring	RWBL	Red-winged Blackbird	3.	0	0 - 40 m	North	na	, wes	
		Spring	RTHA	Red-tailed Hawk	1	-0	0 - 40 m	Northwest	01	yes	
		Spring	HOLA	Horned Lark	2	-0	0 - 40 m	East	DU	yes	
		Spring	COGR	Common Grackle	4	-0	0 - 40 m	South	00	yes	
		Spring	AMCR	American Crow	00	-0	0 - 40 m	Southwest	OL	yes	
		Spring	KILL	Killdeer	1	-0	0 - 40 m	Northwest	DO	yes	
		Spring	AMRO	American Robin	1	-0	0-40 m	West	ОП	yes	
		Spring	COGR	Common Grackle	2	-0	0-40 m	West/Northwest	no	yes	
		Spring	RWBL	Red-winged Blackbird	9	-0	0-40 m S	South/Southeast	OU.	yes	
		Spring	RWBL	Red-winged Blackbird	4	-0	0-40 m	West/Northeast	2	, ves	
2/-Apr-11	4	Spring	HOLA	Horned Lark	H	-0	Ė	Southwest	no	sak	
		Spring	KILL	Killdeer	Ŧ	0	0 40 m	Southwest	2	ves	
		Spring	AMRO	American Robin	1	-0	0 - 40 m	Southeast	OU.	sex	
		Soring	COGR	Common Grackle	2	-0	0-40 m	Northeast	2	ves	
		Spring	HOLA	Horned Lark	3	-0	0 - 40 m	Northeast	01	yes	
		Spring	KILL	Killdeer	-	0	0-40 m	Northwest	2	ves	
		Spring	AMRO	American Robin		0	0 - 40 m	Southwest	02	>	
		Spring	COGR	Common Grackle	2	0	0 - 40 m	East	2	sak	
		Spring	RWBL	Red-winged Blackbird	4	-40-	40 - 180 m	West	se.	× × ×	3 MINUTES
		Soring	EABL	Eastern Bluebird	1	-0	0 - 40 m	East	DU.	ou.	
		Saring	EABL	Eastern Bluebird	2	-0	0 - 40 m	West	OL.	sea	
Ī		Spring	RWBL	Red-winged Blackbird	47	-0	0 40 m	Southwest	5	yes	
		Spring	HOLA	Horned Lark	1	0	0 - 40 m	Southeast	DU	yes	
		Spring	TUVU	Turkey Vulture	9	- 40-	40 - 180 m	South	yes	yes	5 MINUTES
		Spring	EUST	European Starling	4	-0	0 - 40 m	East	00	yes	
		Spring	RWBL	Red-winged Blackbird	ď	-0	0-40 m	Northwest	90	yes	
		Spring	EAME	Eastern Meadowlark	1	-0	0-40 m	North	2	yes	
		Spring	COGR	Common Grackle	2	-0	0 - 40 m	Northeast	no	yes	
27-Apr-11	7	Spring	KILL	Killdeer	1	-0	0 - 40 m	East	00	yes	
		Spring	BHCO	Brown-headed Cowbird	æ	-0	0 - 40 m	South	90	yes	
		Spring	EABL	Eastern Bluebird	2	-0	0-40 m	West	00	yes	
		Spring	EUST	European Starling	Ŧ	-0		North/Northeast	OU	yes	
		Spring	RWBL	Red-winged Blackbird	1	0	0 - 40 m	West	DU	yes	
		Spring	RTHA	Red-tailed Hawk	Ħ	-0	0 - 40 m	South	no	yes	
		Spring	KILL	Killdeer	1	- 0	0 - 40 m	Southeast	na	yes	
		Spring	AMRO	American Robin	1	-0	0 - 40 m	Southwest	no	yes	
		Spring	TUVU	Turkey Vulture	3	- 40 -	40 - 180 m	North	yes	yes	2 MINUTES
		Spring	AMRO	American Robin	1	-0	0 - 40 m	Southeast	מס	sek	
		Spring	AMRO	American Robin	1	-0	0 - 40 m	Northwest	92	yes	
		Spring	TUVU	Turkey Vulture	3	- 40 -	40 - 180 m	East	yes	yes	2 Minutes
27-Anr-11	r	Spring	AMRO	American Robin	H	-0	0-40m	East	na	sak	
		Spring	EUST	European Starling	2	-0	0-40 m	Southeast	DU	yes	
		Spring	AMGO	American Goldfinch	4	-0	0 - 40 m	Southwest	na	yes	
		Spring	COGR	Common Grackle	Ŧ,	-0	0 - 40 m	South	92	yes	
		Spring	BRNS	Barn Swallow	Ť.	-0	0-40 m	West	no	ves	
		Spring	KILL	Kilideer	1	-0	0 - 40 m	South	OU	yes	
		Spring	AMRO	American Robin	2	-0	0 - 40 m	West	no	yes	
27-Apr-11	m	Spring	KILL	Kilideer	Ŧ.	-0	0 - 40 m	West	no	yes	
		Spring	SOSP	Song Sparrow	1	-0	0 - 40 m	Southwest	ng	sek	
i		Spring	COGR	Common Grackle	'n	-0	0 - 40 m	Southwest	по	yes	

Diumal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	#	Age	Observation	tion	Circling	Entered Project Area	Estimated time within rooter
			2000				Height	Direction	(ves/no)	(hes/no)	area
		Spring	RWBL	Red-winged Blackbird	3	-0	0 - 40 m	West	na	, ves	
		Spring	RWBL	Red-winged Blackbird	1	0	0 - 40 m	Southeast	DIO.	yes.	
		Spring	HOLA	Horned Lark	2	-0	0-40 m	West	DO	yes	
		Spring	KILL	Killdeer	7	-0	0-40 m	West	OU.	yes	
		Spring	EUST	European Starling	9	-0	0 - 40 m	East	OL	yes	
		Spring	KILL	Killdeer	1	-0	0 - 40 m	South	no	yes	
30 Apr 11	-	Spring	внсо	Brown-headed Cowbird	2	-0	0-40 m	North	OU.	yes	
TT-Ide-6		Spring	RWBL	Red-winged Blackbird	3	-0	0-40 m	Southeast	na	yes	
		Spring	HOLA	Homed Lark	1	-0	0-40 m	East	no	yes	
		Spring	TUVU	Turkey Vulture	1	- 40-	40-180 m E	East/Northeast	yes	sak	7 Minutes
		Spring	COHA	Cooper's Hawk	1.4	-0	0 - 40 m	West	90	kes	
		Spring	KILL	Killdeer	Ŧ	0	0 - 40 m	Southeast	DU	yes	
		Spring	AMRO	American Robin	1	-0	0-40m	West	na	yes	
		Spring	COGR	Common Grackle	9	0	0-40 m	West	00	yes	
		Spring	AMRO	American Robin	Ŧ	0	0 - 40 m	East	DU	yes	
Ī		Spring	RWBL	Red-winged Blackbird	ж	-0	0 - 40 m	Southwest	DU	yes	
		Spring	HOLA	Homed Lark	2	-0	0-40 m	Southeast	011	yes	
		Spring	KILL	Killdeer	1	-0	0 - 40 m	North	OU	yes	
		Spring	EUST	European Starling	ń	-0	0 - 40 m	Northwest	OU.	yes	
		Spring	COGR	Common Grackle	4	-0	0-40 m	Northeast	OL.	ķes	
		Spring	TUVU	Turkey Vulture	e	-40-	40 - 180 m	West	sak	sak	3 Minutes
29-Apr-11	7	Spring	TUVU	Turkey Vulture	5	40	40 - 180 m	West	yes	sak	5 minutes
		Spring	KILL	Killdeer	2	-0	0 - 40 m	Southeast	DO.	yes	
		Spring	TUVU	Turkey Vulture	5	- 40 -	40 - 180 m	West	yes	yes	2 Minutes
		Spring	EABL	Eastern Bluebird	2	-0	0 - 40 m	West	na	yes	
		Spring	AMRO	American Robin	н	-0	040 m	East	DU	yes	
		Spring	HOLA	Horned Lark	1	-0	0 - 40 m	South	OL	yes	
		Spring	внсо	Brown-headed Cowbird	2	-0	0 - 40 m	North	na	yes	
		Spring	WITU	Wild Turkey	1	-0	0 - 40 m	Southeast	DO	yes	
		Spring	ngow.	Wood Duck	2	-0	0-40 m	East	OL	sak	
		Spring	AMRO	American Robin	1	-0	0 - 40 m	West	no	yes	
		Spring	MODO	Mourning Dove	2	-0	0-40 m	South	DQ.	yes	
		Spring	AMRO	American Robin	1	0	0 - 40 m	Southeast	00	yes	
		Spring	COGR	Common Grackle	3	0	0 - 40 m	Southwest	na	, wes	
ĺ		Spring	AMGO	American Goldfinch	3	-0	0 - 40 m	West	DO	yes	
29-Apr-11	m	Spring	MALL	Mallard	Н.	-0	0-40 m	Southeast	DC.	hes	
		Spring	BRNS	Barn Swallow	н	-0	0-40 m	West	OU.	yes	
		Spring	KILL	Killdeer	1	-0	0 - 40 m	West	00	yes	
		Spring	AMRO	American Robin	1	-0	0 - 40 m	East	92	yes	
		Spring	KILL	Killdeer	1	-0	0 - 40 m	South	02	yes	
		Spring	SOSP	Song Sparrow	1	-0	0 - 40 m	North	na	yes	
	1	Spring	COGR	Common Grackle	2	-0	0 - 40 m	Southeast	no	yes	
		Spring	RWBL	Red-winged Blackbird	1	-0	0-40 m	West	OU	sak	
Ī		Spring	AMRO	American Robin	1	-0	0 - 40 m	Southeast	no	yes	
		Spring	COGR	Common Grackle	1	-0	0 - 40 m	West	no	yes	
30.4nr.11	-	Spring	RWBL	Red-winged Blackbird	1	-0	0 - 40 m	West	OL.	yes	
11		Spring	RWBL	Red-winged Blackbird	Ŧ	0	0 - 40 m	East	no	yes	
		Spring	BRNS	Barn Swallow	Ŧ	0	0 - 40 m	South	no	yes	
		Spring	HOLA	Horned Lark	1	-0	0 - 40 m	North.	ng	sah	
		Spring	RWBL	Red-winged Blackbird	+	0	0 -40 m	West	2	sak	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	21	Age	Observation	ation	Circling	Entered Project Area	Estimated time within rooter
			1000				Height	Direction	(ou/sak)	(ves/no)	area
		Spring	RWBL	Red-winged Blackbird	T	·-0	0 - 40 m	Southeast	na	sak	
		Spring	HOLA	Homed Lark	1	0	0 - 40 m	West	00	yes	
		Spring	BRNS	Barn Swallow	1	0	0-40 m	West	DU.	Ves	
		Spring	KILL	Killdeer	н	0	0-40 m	East	2	Ves	
		Spring	AMRO	American Robin	T	,-0	0 - 40 m	South	02	ves	
30-Apr-11	-	Spring	COGR	Common Grackle	F	0	0 - 40 m	North	2	yes	
		Spring	UVUT	Turkey Vulture	7	40-	40 - 180 m	Southeast	92	yes	7 Minutes
		Spring	RWBL	Red-winged Blackbird	1	-0	0-40 m	East	DU	yes	
		Spring	BRNS	Barn Swallow	ī	00	0-40 m	East/Northeast	00	yes	
		Spring	AMCR	American Crow	1	0	0-40 m	West	00	yes	
		Spring	RWBL	Red-winged Blackbird	я	1-0	0-40 m	Southeast	00	yes	
		Spring	BRNS	Barn Swallow	1	0	0-40 m	North	na	yes	
		Spring	RWBL	Red-winged Blackbird	1	0	0 - 40 m	Southeast	00	yes	
		Spring	HOLA	Horned Lark	7	-0	0-40 m	East	Du.	yes	
		Spring	KILL	Killdeer	Ŧ	00	0 - 40 m	East/Northeast	OU	yes	
		Spring	EUST	European Starling	т	0	0 - 40 m	West	no	yes	
		Spring	HOLA	Homed Lark	я	0	0-40 m	Southeast	92	yes	
		Spring	EAME	Eastern Meadowlark	1	0	0 - 40 m	Southeast	DU	yes	
		Spring	TUVU	Turkey Vulture	1	40 -	40 - 180 m	East	DO.	yes	
SU-Apr-11	7	Spring	KILL	Killdeer	1	0	0 - 40 m	East/Northeast	92	yes	
		Spring	UVUT	Turkey Vulture	т	40-	40 - 180 m	West	na Pro	yes	6 Minutes
		Spring	EABL	Eastern Bluebird	FI.	0	0 - 40 m	West	па	yes	
		Spring	AMRO	American Robin	1	7-0	0 - 40 m	Southeast	DO	yes	
		Spring	RWBL	Red-winged Blackbird	1	-0	0 - 40 m	West	ou	yes	
		Spring	COGR	Common Grackle	1	1-0	0 - 40 m	West	na	yes	
		Spring	KILL	Killdeer	1	1-0	0 - 40 m	East	DU	yes	
		Spring	EUST	European Starling	1	0	0 - 40 m	South	no	yes	
		Spring	BHCO	Brown-headed Cowbird	2	-0	0 - 40 m	South	na	yes	
		Spring	COGR	Common Grackle	'n	0	0 - 40 m	North	ng	yes	
		Spring	HOLA	Horned Lark	2	0	0 - 40 m	Southeast	OU	yes	
		Spring	MODO	Mourning Dove	1	-0	0 - 40 m	West	na	yes	
		Spring	COGR	Common Grackle	ī	0	0 - 40 m	Southeast	DQ.	yes	
		Spring	AMGO	American Goldfinch	e e	0	0 - 40 m	West	о <u>п</u>	yes	
		Spring	AMRO	American Robin	7	0	0 - 40 m	West	na	yes	
30-Apr-11	m	Spring	TUVU	Turkey Vulture	4	40-	40 - 180 m	East	ves	yes	5 Minutes
		Spring	KILL	Killdeer	-	0	0 - 40 m	South	90	yes	
		Spring	AMRO	American Robin	ř	-0	0 - 40 m	North	ou	yes	
		Spring	HOLA	Horned Lark	п	· - 0	0 - 40 m	Southeast	na	yes	
		Spring	SOSP	Song Sparrow	1	0-1	0 - 40 m	East	no	yes	
		Spring	AMRO	American Robin	1	0	0 - 40 m	East/Northeast	2	yes	
		Spring	AMCR	American Crow	2	-0	0 - 40 m	South	na	yes	
		Spring	HOLA	Horned Lark	1	-0	0 - 40 m	West	na	yes	
		Autumn	SBDO	Short-billed Dowitcher	1	-0	0 - 40 m	North	OU	sex	
4-Sep-11	e	Autumn	AMCR	American Crow	7	-0	0 - 40 m	West	na	yes	1
		Autumn	AMCR	American Crow	3	0 -	0 - 40 m	North	na	yes	
		Autumn	AMCR	American Crow	3	1-0	0-40 m	West	OU	yes	
A Com 41	,	Autumn	AMGO	American Goldfinch	т	1-0	0 - 40 m	East	οu	yes	
+-3ch-11		Autumn	AMCR	American Crow	. 2	0	0 - 40 m	South	no	yes	
		Autumn	AMCR	American Crow	Э	1-0	0 - 40 m	Southwest	DO	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Spasnin	Code	Speries	41	Уер	Observation	vation	Circling	Entered Project Area	Estimated time within rooter
	-	- Academi	anna.	and the same of th			Height	Direction	(yes/no)	(ves/no)	area
	,	Autumn	AMCR	American Crow	3	-0	0 - 40 m	Southwest	na	yes	
	7	Autumn	MODO	Mourning Dove	2	0	0 - 40 m	North/Northwest	011	yes	
		Autumn	HOSP	House Sparrow	50	-0	0 - 40 m	Southwest	DO	Ves	
4-Sep-11	3	Autumn	AMCR	American Crow	2	0	0-40 m	North/Northeast	00	yes	
	*	Autumn	AMGO	American Goldfinch	1	-0	0 - 40 m	Southwest	00	ves	
	4	Autumn	HOSP	House Sparrow	ĸ	0	0 - 40 m	East	ou	yes	
		Autumn	SOSP	Song Sparrow	1	0	0 - 40 m	North	na	sak	
/-sep-11	H	Autumn	TUVU	Turkey Vulture	2	40-	40 - 180 m	Southeast	yes	yes	2 Minutes
7-Sep-11	2	Autumn		No Observations							
	1	Autumn	MODO	Mourning Dove	3.	-0	0 - 40 m	Southeast	οu	sek	
7-Sep-11	3	Autumn	AMCR	American Crow	S	- 40	40-180 m	Southwest	na	yes	1 Minute
		Autumn	TUVU	Turkey Vulture	4	- 04	40 - 180 m	South	yes	yes	3 Minutes
		Autumn	AMCR	American Crow	9	0	0 - 40 m	South/Southeast	ou	yes	
9-Sep-11	1	Autumn	EABL	Eastern Bluebird	2	0	0 - 40 m	East	ou	yes	
	4	Autumn	RBGU	Ring-billed Gull	2	0	0 - 40 m	North	00	yes	
		Autumn	TUVU	Turkey Vulture	3	- 40	40 - 180 m	North	yes	yes	5 Minutes
9-5ep-11	7	Autumn	AMCR	American Crow	7.	-0	0 - 40 m	East	00	yes	
		Autumn	HOSP	House Sparrow	12	0	0 - 40 m	East	οu	yes	
9-Sep-11	5	Autumn	AMCR	American Crow	1	0	0-40 m	South	90	yes	
5	1	Autumn	HOLA	Horned Lark	2	0	0-40 m	North	DU	sak	
11-Sep-11	1	Autumn	AMGO	American Goldfinch	8	0	0 - 40 m	North	00	yes	
0 88	1	Autumn	NOFL	Northern Flicker	1	0	0 - 40 m	North	OU.	yes	
, C		Autumn	AMCR	American Crow	3.	-0	0 - 40 m	East	no	yes	
11-seb-11	7	Autumn	AMCR	American Crow	2	0	0 - 40 m	North	00	yes	
	Ť	Autumn	AMCR	American Crow	2	0	0 - 40 m	Southwest	OU	sak	
	4	Autumn	BUA	Blue Jay	1	-0	0 - 40 m	North/Northeast	no	yes	
	4	Autumn	AMCR	American Crow	3	>15		Northeast	OU.	yes	
	*	Autumn	MODO	Mourning Dove	50	-0	0 - 40 m	North/Northwest	DO	yes	
11 Can 11	0	Autumn	CAGO	Canada Goose	7	-0	0 - 40 m	South/Southeast	00	yes	
T-dac-T		Autumn	MODO	Mourning Dove	1	0	0 - 40 m	South	-01	yes	
	~	Autumn	BLA	Blue Jay	2	0	0 - 40 m	North	na	hes	
	*	Autumn	HOSP	House Sparrow	4	0	0 - 40 m	West	00	yes	
		Autumn	KILL	Killdeer	. 2	-0	0 - 40 m	North	no	yes	
	~	Autumn	ВПА	Blue Jay	3	0	0 - 40 m	East	OU	hes	
	-	Autumn	AMCR	American Crow	ĸ	-0	0 - 40 m	Northeast	ou	yes	
	*	Autumn	HOSP	House Sparrow	7	0	0 - 40 m	Northwest	00	yes	
	~	Autumn	AMCR	American Crow	4	0	0 - 40 m	Southeast	no	yes	
	4	Autumn	ВПА	Blue Jay	1	0	0-40 m	South/Southeast	ou	yes	
	4	Autumn	AMCR	American Crow	3	-0	0 - 40 m	East/Northeast	- OU	yes	
S Con 11	,	Autumn	MODO	Mourning Dove	2	-0	0 - 40 m	East	00	yes	
18-Sep-11		Autumn	CAGO	Canada Goose	18	- 40-	40 - 180 m	West	00	yes	1 Minute
	*	Autumn	MODO	Mourning Dove	4	-0	0 - 40 m	Sauthwest	no	yes	
	4	Autumn	BUA	Blue Jay		0	0 - 40 m	Northeast	no	yes	- A
		Autumn	HOSP	House Sparrow	n	0	0 - 40 m	West	na	yes	
	*	Autumn	KILL	Killdeer	2	0	0 - 40 m	West/Southwest	00	ves	
	4	Autumn	BUA	Blue Jay	1	0-0	0-40 m	Southwest	no	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Sopries	#	Дор		Observation	CIRCING	Entered Project Area	ESTIMATED TIME WITHIN LOOKE
-	-	· ·		- Carriedo		-94	Height	Direction	(yes/no)	(yes/no)	area
		Autumn	UVUT	Turkey Vulture	2	. [40 - 180 m	Northwest	na	sex	1 Minute
10000	,	Autumn	BUA	Blue Jay	1		0 - 40 m	Northeast	22	yes	
18-Sep-11	7	Autumn	AMCR	American Crow	4		0 - 40 m	South	2	yes	
		Autumn	AMCR	American Crow	6	H	0 - 40 m	North	01	yes	
		Autumn	RTHA	Red-tailed Hawk	1		>180 m	North	yes	yes	
		Autumn	TUVU	Turkey Vulture	3	-	40 - 180 m	Northeast	yes	yes	4 Minutes
		Autumn	AMCR	American Crow	4	-	0 - 40 m	Southwest	DU.	, kes	
18-Sep-11	m	Autumn	AMCR	American Crow	9		0 - 40 m	South/Southeast	92	kes	
		Autumn	ВПА	Blue Jay	- 2		0 - 40 m	East	92	hes	
		Autumn	EABL	Eastern Bluebird	m	-	0 - 40 m	West	OU	yes	
		Autumn	EUST	European Starling	7		0 - 40 m	West/Southwest	92	yes	
		Autumn	MODO	Mourning Dove	2		0 - 40 m	North	OU	yes	
		Autumn	CAGO	Canada Goose	io.		>180 m	Northeast	92	yes	
		Autumn	MODO	Mourning Dove	Ŧ	-	0 - 40 m	Southeast	2	Åes	
20-Sep-11	Ĥ	Autumn	ВПА	Blue Jay	1	-	0 - 40 m	Southwest	DU	sek	
		Autumn	HOSP	House Sparrow	3	-	0-40 m	West	OU	yes	
		Autumn	KILL	Killdeer	7		0 - 40 m	East/Northeast	no	yes	
		Autumn	AMCR	American Crow	4		0 - 40 m	West	OU	yes	
		Autumn	AMCR	American Crow	4		0 - 40 m	North	OU	yes	
		Autumn	KILL	Killdeer	1		0 - 40 m	North/Northeast	00	yes	
00 Can 11	*	Autumn	EUST	European Starling	2	-	0 - 40 m	West	no	yes	
20-3ep-11	7	Autumn	COGR	Common Grackle	5	-	0-40 m	East	01	sak	
		Autumn	EABL	Eastern Bluebird	T.	-	0 - 40 m	Southeast	no	yes	
		Autumn	SOSP	Song Sparrow	1		0 - 40 m	South	ОП	yes	
		Autumn	GBHE	Great Blue Heron	1		40 - 180 m	North/Northeast	OU	yes	1 Minute
		Autumn	AMCR	American Crow	7		0 - 40 m	South	no	yes	
30 Can 11	,	Autumn	AMCR	American Crow	2		0 - 40 m	Southeast	DO.	yes	
TT-dac-07	1	Autumn	AMCR	American Crow	1		0 - 40 m	Northeast	01	yes	
		Autumn	MODO	Mourning Dave	4		0 - 40 m	North/Northeast	no	yes	
		Autumn	SOSP	Song Sparrow	1		0 - 40 m	West	no	yes	
		Autumn	AMCR	American Crow	2		0 - 40 m	North	ОП	sak	
		Autumn	ВПА	Blue Jay	1		0 - 40 m	North/Northeast	na	yes	
		Autumn	AMCR	American Crow	4		0 - 40 m	West	2	sek	
		Autumn	MODO	Mourning Dove			0 - 40 m	South	DO	yes	
21-Sep-11	7	Autumn	TUVU⊤	Turkey Vulture	2		40 - 180 m	Southeast	yes	yes	2Minutes
		Autumn	KILL	Killdeer	1		0 - 40 m	Southeast	no	yes	
		Autumn	EABL	Eastern Bluebird	3		0 - 40 m	Southwest	D)	yes	
		Autumn	EUST	European Starling	6		0 - 40 m	North/Northeast	01	yes	
		Autumn	COGR	Common Grackle	2		0 - 40 m	Northwest	na	yes	
		Autumn	ENST	European Starling	9		0 - 40 m	North	DU.	sak	
		Autumn	SOSP	Song Sparrow	1		0-40 m	Southeast	01	sek	
		Autumn	AMCR	American Crow	S		0 - 40 m	Northeast	OU	yes	
21-Sep-11	2	Autumn	AMCR	American Crow	7		0 - 40 m	North/Northwest	22	yes	
		Autumn	CEDW	Cedar Waxwing	11		0 - 40 m	Southwest	2	yes	
		Autumn	WITU	Wild Turkey	1		0 - 40 m	South/Southeast	na	yes	
		Autumn	AMCR	American Crow	4		0 - 40 m	West	ou	Upc	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Season	Code	Species	##	Age	COS	COSEIVADOII	Surang	בוויבובה זוסובה טובה	
			1				Height	Direction	(ou/sak)	(yes/no)	area
		Autumn	AMCR	American Crow	9		0 - 40 m	North	na	yes	
		Autumn	GBHE	Great Blue Heron	1	4	40 - 180 m	Southwest	00	yes	1 Minute
		Autumn	TUVU	Turkey Vulture	ĸ	4	40 - 180 m	North/Northeast	yes	yes	4 MinuteS
		Autumn	RTHA	Red-tailed Hawk	1	4	40 - 180 m	West	yes	yes	8 Minutes
		Autumn	SOSP	Song Sparrow	Ŧ		0 - 40 m	Southeast	OU	yes	
71-Jeb-11	7	Autumn	SOSP	Song Sparrow	1		0 - 40 m	North/Northwest	na	yes	
		Autumn	EABL	Eastern Bluebird	m		0 - 40 m	East	OL.	yes	
		Autumn	EUST	European Starling	6		0 - 40 m	West/Southwest	na	yes	
		Autumn	MODO	Mourning Dove	8		0 - 40 m	South	DI	yes	
		Autumn	MODO	Mourning Dove	7		0 - 40 m	South/Southwest	na	kes	
		Autumn	AMCR	American Crow	æ		0 - 40 m	North/Northeast	na	yes	
		Autumn	MODO	Mourning Dove	2		0 - 40 m	Southeast	na	yes	
25-Sep-11	-	Autumn	AMIKE	American Kestrel	1		0 - 40 m	East	2	ves	
		Autumn	AMCR	American Crow	7		0 - 40 m	South	na	ves	
		Autumn	TUVU	Turkey Vulture	H		0 - 40 m	Southwest	OL.	, sex	
		Autumn	AMPI	American Pipit	4		0-40m	Southeast	OU	ves	
		Autumn	AMCR	American Crow	11	4	40 - 180 m	Southwest	yes	ves	6 Minutes
		Autumn	HOLA	Homed Lark	.2		0-40 m	North	DO.	yes	
25-Sep-11	7	Autumn	TUVU	Turkey Vulture	7	4	40 - 180 m	South	DO.	yes	1 Minute
		Autumn	SOSP	Song Sparrow	Ti.		0-40 m	Northwest	DO.	yes	
		Autumn	HOSP	House Sparrow	00		0 - 40 m	South/Southwest	OU	Åes	
		Autumn	EUST	European Starling	42		0 - 40 m	Southwest	yes	yes	
		Autumn	BUA	Blue Jay	3		0-40 m	Southwest	ou.	sak	
		Autumn	HOSP	House Sparrow	ı,		0 - 40 m	Southeast	00	kes	
1000	,	Autumn	TUVU	Turkey Vulture	4	4	40 - 180 m	South/Southwest	yes	yes	8 Minutes
77-dac-c7	1	Autumn	COHA	Cooper's Hawk	1		0 - 40 m	West	no	yes	
		Autumn	AMCR	American Crow	9		0 - 40 m	East	no	yes	- T
		Autumn	HOSP	House Sparrow	7		0 - 40 m	East/Northeast	no	yes	
		Autumn	TUVU	Turkey Vulture	3	4	40 - 180 m	North	yes	sak	4 Minutes
		Autumn	AMCR	American Crow	4		0 - 40 m	Southeast	00	yes	
		Autumn	MODO	Mourning Dove	S		0 - 40 m	Southwest	DO.	yes	
28-Sep-11	+	Autumn	SOSP	Song Sparrow	н		0-40 m	East	00	yes	
		Autumn	EUST	European Starling	7	-	0 - 40 m	East/Northeast	no	yes	
		Autumn	KILL	Killdeer	. 2	I.	0 - 40 m	East	00	yes	
		Autumn	AMRO	American Robin	4		0 - 40 m	Southeast	no	yes	
		Autumn	AMCR	American Crow	00		0 - 40 m	South/Southwest	no	yes	
		Autumn	SAVS	Savannah Sparrow	1 1		0-40m	Southwest	i ou	sek	
		Autumn	BLJA	Blue Jay	2		0 - 40 m	South/Southwest	ou	sak	
		Autumn	AMCR	American Crow	9		0 - 40 m	Southeast	na	sek	
		Autumn	AMGO	American Goldfinch	4		0 - 40 m	Southeast	OU	yes	
		Autumn	EUST	European Starling	Ŧ		0-40 m	South	no	yes	
28-Sep-11	7	Autumn	AMPI	American Pipit	2		0 - 40 m	Northwest	no	yes	
		Autumn	HOLA	Horned Lark	3		0 - 40 m	West	ОП	ves	
		Autumn	RWBL	Red-winged Blackbird	ī		0 - 40 m	South/Southwest	no	yes	
		Autumn	EUST	European Starling	8		0 - 40 m	Northwest	OL.	yes	
		Autumn	KICL	Killdeer	2	-	0 - 40 m	West/Southwest	no	yes	
		Autumn	KILL	Killdeer	+		0 - 40 m	Northeast	OU	300	

Diumal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Point	Spason	Code	Speries	**	Уор	Observati	Circling	Entered Project Area	Estimated time within rooter
				The state of the s		Height	Direction	(ves/no)	(yes/no)	area
		Autumn	AMGO	American Goldfinch	T	0 - 40 m	u South	na	sək	
		Autumn	HOSP	House Sparrow	ĸ	0 - 40 m	1 Southeast	OU.	yes	
		Autumn	AMCR	American Crow	Ŧ	0 - 40 m	North	DU	yes	
		Autumn	CAGO	Canada Goose	18	40-180 m	m Northeast	00	yes	2 Minutes
		Autumn	EUST	European Starling	7	0-40 m	North/Northeast	OL.	yes	
28-Sep-11	m	Autumn	HOSP	House Sparrow	Ŋ	0 - 40 m	Southwest	92	yes	
		Autumn	RWBL	Red-winged Blackbird	32	40 - 180 m	m Northwest	92	yes	2 Minutes
		Autumn	BHCO	Brown-headed Cowbird	7	40-180 m	-	OU.	yes	2 Minutes
		Autumn	COGR	Common Grackle	6	40-180 m	-	00	ves	2 Minutes
		Autumn	AMCR	American Crow	7	0 - 40 m	oN.	2	yes	
		Autumn	AMCR	American Crow	2	0 - 40 m		DO.	yes	
		Autumn	AMCR	American Crow	3	0 - 40 m		Du	Selvi	
30-Sep-11	÷	Autumn	MODO	Mourning Dove	2	0-40 m	S	00	3	
		Autumn	AMCR	American Crow	4	0-40m		2	vės	
		Autumn	TUVU	Turkey Vulture	3	40-180 m	Sol	Sey	Selv	3 Minutes
1000000		Autumn	AMCR	American Crow	7	0 - 40 m	F	00	ves	
30-Sep-11	7	Autumn	HOSP	House Sparrow	2	0 - 40 m		00	Ves	
		Autumn	EUST	European Starling	14	0 - 40 m	Ž	00	yes	
.,	,	Autumn	TUVUT	Turkey Vulture	2	0 - 40 m	n Northeast	ou	yes	
30-Sep-11	77	Autumn	AMCR	American Crow	9	40-180 m	m Southwest	yes	yes	2 Minutes
		Autumn	AMCR	American Crow	3	0 - 40 m	Northwest	OU	sak	
		Autumn	MODO	Mourning Dave	4	0 - 40 m	Southeast	no	sak	
		Autumn	AMRO	American Robin	Ŧ	0 - 40 m	n Northwest	ОП	yes	and the same
		Autumn	HOSP	House Sparrow	9	0 - 40 m	West West	no	yes	
		Autumn		Turkey Vulture	3	40-180 m	m Southeast	yes	sak	8 Minutes
		Autumn		Turkey Vulture	.5	>180 m	Southeast	yes	yes	
0 1		Autumn		Killdeer	2	0 - 40 m	1 South/Southwest	ρú	yes	
2-Oct-11		Autumn	- 1	American Crow	1	40-180 m	Sol	ou	хех	2 Minutes
		Autumn	-1	Song Sparrow	7	0 - 40 m	n Northwest	na	yes	
		Autumn		Canada Goose	24	40 - 180 m	m North	no	yes.	2 Minutes
		Autumn		Horned Lark	2	0 - 40 m		DO	yes	
		Autumn		Eastern Bluebird	2	0 - 40 m	n Northeast	ОП	yes	
		Autumn		Tree Swallow	4	0 - 40 m	1 South	yes	yes	
		Autumn		American Crow	7	0 - 40 m	1 Northwest	no	yes	
		Autumn	GBHE	Great Blue Heron	1	40-180 m	m South/Southeast	no	yes	1 Minutes
		Autumn		American Crow	18	40 - 180 m	m Southwest	yes	yes	11 Minutes
		Autumn	ч	Blue Jay	3	0-40 m		ng	yes	
		Autumn	ш	Red-winged Blackbird	1.4	0 - 40 m	South/Southeast	no	yes	
		Autumn	-	Common Grackle	80	0 - 40 m		na	, ves	
		Autumn		Brown-headed Cowbird	2	0 - 40 m	501	no	yes.	
		Autumn	EUST	European Starling	32	0 - 40 m	Southwest	yes	no	
2-0ct-11	7	Autumn	М	Eastern Bluebird	2.	0 - 40 m	No	92	yes	
		Autumn	- 1	Horned Lark	S	0 - 40 m		00	yes	
		Autumn		Turkey Vulture	7	40 - 180 m	m North/Northeast	sak	ou	
		Autumn	SOSP	Song Sparrow	2	0 - 40 m	n North/Northwest	no	yes	
		Autumn	AMRO	American Robin	1	0 - 40 m	North	ou	yes	
		Autumn	AMGO	American Goldfinch	7	0 - 40 m		no	yes	
		Autumn	AMCR	American Crow	2	40 - 180 m	m North/Northwest	OU	sek	2 Minutes

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

O-to	Belat	Consens	Cado	Constine	*	Ann	ops	Observation	Circling	Entered Project Area	Estimated time within rooter
	Louis	Horoso	anon	canade		- Pe	Height	Direction	(yes/no)	(ves/no)	area
		Autumn	RTHA	Red-tailed Hawk	1		0 - 40 m	East/Northeast	υu	yes	
		Autumn	HOSP	House Sparrow	00	Ť	0 - 40 m	East/Southeast	92	yes	
7-DC-71	n	Autumn	AMCR	American Crow	4		40 - 180 m	North	DU	yes	1 Minute
		Autumn	TUVU	Turkey Vulture	7		40 - 180 m	South/Southwest	yes	yes	4 Minutes
		Autumn	EABL	Eastern Bluebird	3		0-40 m	Northeast	no	yes	
		Autumn	AMCR	American Crow	9	Ī	0 - 40 m	North	01	yes	
4-Oct-11	H	Autumn	NOFL	Northern Flicker	-1	r	0 - 40 m	South	na	yes	
		Autumn	AMCR	American Crow	8		40 - 180 m	Southwest	00	yes	2 Minutes
		Autumn	SOSP	Song Sparrow	2		0 - 40 m	West	01	sak	
		Autumn	TUVU	Turkey Vulture	4		40 - 180 m	South/Southwest	yes	yes	5 Minutes
		Autumn	AMKE	American Kestrel	1	İ	0 - 40 m	North/Northwest	00	yes	
		Autumn	EUST	European Starling	6	Ì	0 - 40 m	Northeast	ou	yes	
4-Oct-11	7	Autumn	AMCR	American Crow	3	T	0 - 40 m	Southeast	ou.	yes	
		Autumn	AMGO	American Goldfinch	9	Ī	0 40 m	South/Southwest	no	Åes	
		Autumn	AMCR	American Crow	2	-	0 - 40 m	South/Southeast	no	yes	
		Autumn	KILL	Killdeer	4	-	0 - 40 m	North/Northwest	DU	sak	
		Autumn	HOSP	House Sparrow	6	-	0 - 40 m	West	00	yes	
		Autumn	AMCR	American Crow	2	i	0 - 40 m	North	ou Ou	yes	
		Autumn	TUVU	Turkey Vulture	4	Ī	40 - 180 m	Northeast	yes	yes	5 Minutes
		Autumn	SOSP	Song Sparrow	1		0 - 40 m	East	п	yes	
4-0ct-11	3	Autumn	HOSP	House Sparrow	9	r	0 - 40 m	Southeast	pu	yes	
		Autumn	EUST	European Starling	18		0-40 m	South/Southwest	00	yes	
		Autumn	COGR	Common Grackle	2	1	0 - 40 m	West/Southwest	DU	yes	
		Autumn	EABL	Eastern Bluebird	2	Ī	0 - 40 m	Northwest	OU	yes	
		Autumn	KILL	Killdeer	4		0 - 40 m	North/Northwest	ou	yes	
		Autumn	HOSP	House Sparrow	00		0 - 40 m	East	na	yes	
	ľ	Autumn	KILL	Killdeer	3		0 - 40 m	Southwest	sak	sek	
		Autumn	COGR	Common Grackle	2		0 - 40 m	Southwest	91	yes	
		Autumn	AMCR	American Crow	ť		0 - 40 m	Southwest	na	yes	
		Autumn		Blue Jay	1		0 - 40 m	South	DIO.	yes	
		Autumn	1	Horned Lark	2	i	0 - 40 m	South	ou	yes	
		Autumn		Killdeer	7		0 - 40 m	Northwest	yes	yes	
		Autumn		White-breasted Nuthatch	1		0 - 40 m	East	no	yes	
7 04 11		Autumn	AMCR	American Crow	4	Ï	0 - 40 m	North	no	yes	
1110	•	Autumn	ш	Killdeer	2		0 - 40 m	North	00	yes	
		Autumn		Northern Harrier	17		0 - 40 m	Northeast	yes	yes	
		Autumn	MODO	Mourning Dove	1		0 - 40 m	Southwest	OU	yes	
		Autumn	AMCR	American Crow	4		0 - 40 m	Southeast	DU	yes	
		Autumn	HOLA	Homed Lark	FI		0 - 40 m	North/Northeast	011	yes	
		Autumn	TULL	Tufted Titmouse	Ŧ		0 - 40 m	West	υO	hes	
		Autumn	TUVU	Turkey Vulture	2	Ï	40 - 180 m	Sauthwest	yes.	yes	7 Minutes
		Autumn	AMCR	American Crow	2	Ī	0 - 40 m	North/Northwest	00	yes	
		Autumn	HOLA	Horned Lark	2.		0 - 40 m	North	00	ves	
		Autumn	AMCR	American Crow	7	r	0 - 40 m	Northwest	DU	sak	
		Autumn	BUA	Blue Jay	e		0 - 40 m	Southeast	00	yes	
11.10	,	Autumn	TUVU	Turkey Vulture	Ś		40 - 180 m	South/Southeast	yes	yes	4 Minutes
/-OCI-11	7	Autumn	AMRO	American Robin	2		0 - 40 m	West	DO.	yes	
		Autumn	EUST	European Starling	19	Ī	0 - 40 m	East/Northeast	DU.	yes	
		Autumn	RWBL	Red-winged Blackbird	9		0 - 40 m	North/Northeast	no	yes	
		Autumn	SOSP	Song Sparrow	1		0 - 40 m	East	OLU	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date Po	Point S	Season	Code	Species	21	Age	SQO	Observation	Circling	Entered Project Area	Estimated time within rooter
							Height	Direction	(hes/uo)	(hes/no)	area
	Au	Autumn	AMRO	American Robin	2		0 - 40 m	North	na	yes	
	Au	Autumn	HOSP	House Sparrow	3		0 - 40 m	Northeast	DIO.	yes	
	Au	Autumn	EUST	European Starling	2	_	040 m	East/Southeast	pu	yes	
	Aus	Autumn	KILL	Killdeer	2		0 - 40 m	South	pu	yes	
	Aus	Autumn	RTHA	Red-tailed Hawk	Ħ.		0 - 40 m	Southeast	01	yes	
7 Oct 11	Aut &	Autumn	RWBL	Red-winged Blackbird	60		0 - 40 m	Southwest	no	yes	
		Autumn	HOLA	Homed Lark	1		0 - 40 m	South/Southwest	00	yes	
	Aus	Autumn	TUVU	Turkey Vulture	9	7	40-180 m	East	no	yes	1 Minute
	Aus	Autumn	HOSP	House Sparrow	4		0-40 m	East/Southeast	OU	yes	
	Aut	Autumn	AMCR	American Crow	1		0-40 m	North	00	yes	
	Aus	Autumn	ВПА	Blue Jay	2		0 - 40 m	Northwest	ou	kes	
	Aui	Autumn	SOSP	Song Sparrow	1		0 - 40 m	Southwest	00	yes	
	Au	Autumn	AMCR	American Crow	æ		0-40 m	North	OU	sak	
	Aut	Autumn	MODO	Mourning Dave	2		0 - 40 m	South	ou.	yes	
	Aut	Autumn	KILL	Killdeer	T		0-40 m	South/Southeast	no	ves	
	Anı	Autumn	AMCR	American Crow	4		0 - 40 m	Northwest	DU	Ves	
	Aut	Autumn	EUST	European Starling	18		0 - 40 m	East	01	ves	
_		Autumn	BUA	Blue Jay	2		0 - 40 m	West/Northwest	00	Ves	
9-0ct-11	1 Aut	Autumn	EABL	Eastern Bluebird	m	-	0 - 40 m	North	00	yes	
	Au	Autumn	SOSP	Song Sparrow	1		0-40 m	Northeast	01	Åes	
	Aus	Autumn	AMRO	American Robin	1		0 - 40 m	Southeast	ou	yes	
	Aui	Autumn	AMCR	American Crow	Ŋ		0 - 40 m	South/Southwest	00	yes	
	Aus	Autumn	RWBL	Red-winged Blackbird	18	7	40 - 180 m	South	00	yes	1 Minute
	Aus	Autumn	COGR	Common Grackle	3	7	40 - 180 m	South	no	yes	1 Minute
	Au	Autumn	AMCR	American Crow	8		0 - 40 m	North/Northeast	DO.	sex	
	Aus	Autumn	AMCR	American Crow	. 5		0 - 40 m	Southeast	OL.	yes	
	Au	Autumn	CAGO	Canada Goose	17	7	40 - 180 m	West	ou Ou	yes	
	Au	Autumn	HOLA	Horned Lark	2		0 - 40 m	Northeast	OU	yes	
	Au	Autumn	EABL	Eastern Bluebird	9		0 - 40 m	West	na	.sek	
	Au	Autumn	EUST	European Starling	19		0-40 m	West	0	yes	
	Au	Autumn	SOSP	Song Sparrow	1		0 - 40 m	East	DO.	yes	
9-Ort-11	Aut C	Autumn	HOSP	House Sparrow	Ĺ		0 - 40 m	North	DQ.	hes	
_		Autumn	AMKE	American Kestrel	1		0 - 40 m	Southwest	02	yes	
	Au	Autumn	TUVU	Turkey Vulture	4	7	40 - 180 m	South	sak	sak	3 Minutes
	Au	Autumn	EUST	European Starling	5		0 - 40 m	East/Northeast	00	, sek	
	Au	Autumn	RWBL	Red-winged Blackbird	59	1	0-40 m	West/Narthwest	92	hes	
	Au	Autumn	COGR	Common Grackle	7		0-40 m	West/Northwest	00	yes	
	Au	Autumn	AMGO	American Goldfinch	4		0 - 40 m	Southeast	no	yes	
	Au	Autumn	AMRO	American Robin	4		0 - 40 m	North	DO.	yes	
	Au:	Autumn	AMCR	American Crow	2		0 - 40 m	Northeast	no	yes	
	Au	Autumn	HOSP	House Sparrow	8		0 - 40 m	Northwest	οu	seA	
	Au	Autumn	MODO	Mourning Dove	2		0 - 40 m	North	na	yes	
	Au	Autumn	MODO	Mourning Dave	.5		0-40 m	South/Southeast	ou	yes	
	Au	Autumn	AMRO	American Robin	2		0 - 40 m	South	pu	yes	
11	, Aut	Autumn	RTHA	Red-tailed Hawk	1		0 - 40 m	West	00	yes	
		Autumn	AMCR	American Crow	9		0 - 40 m	Northwest	OU	yes	
	Au:	Autumn	AMCR	American Crow	7		0 - 40 m	South/Southwest	na	yes	
	Aus	Autumn	RTHA	Red-tailed Hawk	1	7	40 - 180 m	Southeast	yes	yes	4 Minutes
	Aus	Autumn	AMGO	American Goldfinch	5		0 - 40 m	West	ng	sak	
	Aun	Autumn	AMRO	American Robin	1	-	0 - 40 m	East	OL	yes	

Date	Point	Season	Code	Species	21	Age	Observation	vation	Circling	Entered Project Area	Estimated time within rooter
-							Height	Direction	(ou/sak)	(ves/no)	area
		Autumn	SOSP	Song Sparrow	1	0	0 - 40 m	Southeast	na	sak	
		Autumn	KILL	Killdeer	Ŧ	-0	0 - 40 m	Southwest	011	yes	
		Autumn	RBGU	Ring-billed Gull	6	- 04	40-180 m	North/Northeast	yes	yes	11 Minutes
9-Oct-11	m	Autumn	TUVU	Turkey Vulture	ĸ	- 40-	40 - 180 m	West	yes	yes	4 Minutes
Ī		Autumn	GBHE	Great Blue Heron	1	40-	40-180 m	Southwest	92	ves	
		Autumn	MODO	Mourning Dove	4	0	0 - 40 m	South/Southwest	00	yes	
		Autumn	MODO	Mourning Dave	-6	0	0 - 40 m	North	ou	ves	
Ī		Autumn	RTHA	Red-tailed Hawk	Ŧ	40	40 - 180 m	Northeast	DU	sa^	1 Minute
		Autumn	AMRO	American Robin	2	0	0 - 40 m	Southeast	DU	hes	
		Autumn	ВПА	Blue Jay	ň	0	0-40m	South/Southwest	00	yes	
		Autumn	AMCR	American Crow	5	-0	0 - 40 m	Southwest	DU	yes	
		Autumn	ВПА	Blue Jay	1	0	0-40 m	South	OU.	ves	
11-0ct-11	-	Autumn	KILL	Killdeer	7	0	0-40 m	East	2	ves	
		Autumn	MALL	Mallard	2	0	0 - 40 m	West/Southeast	QL.	yes	
		Autumn	SOSP	Song Sparrow	T	0	0-40 m	East/Southeast	90	yes	
		Autumn	SOSP	Song Sparrow	1	-0	0 - 40 m	Southeast	00	Ves	
		Autumn	HOLA	Homed Lark	9	0	0 - 40 m	West	00	yes.	
Ì		Autumn	MODO	Mourning Dove	1	0	0 - 40 m	Northeast	DU	yes	
		Autumn	AMRO	American Robin	1	0	0 - 40 m	Northeast	OU.	yes	
		Autumn	ВПА	Blue Jay	н	-0	0-40m	South/Southeast	00	yes	
		Autumn	HOSP	House Sparrow	4	0	0 - 40 m	Southwest	92	yes	
		Autumn	TUVU	Turkey Vulture	2	- 40	40 - 180 m	West	Ves	Ves	5 Minutes
		Autumn	HOLA	Homed Lark	2	0	0-40 m	East/Northeast	00	yes	
		Autumn	SAVS	Savannah Sparrow	1	0	0 - 40 m	North/Northeast	na	yes	
11-0ct-11	7	Autumn	AMCR	American Crow	4	-0	0-40 m	North	00	yes	
		Autumn	AMGO	American Goldfinch	9	0	0 - 40 m	Southwest	92	yes	
		Autumn	RWBL	Red-winged Blackbird	45	-0	0 - 40 m	East	Du	yes	
		Autumn	COGR	Common Grackle	12	-0	0 - 40 m	West/Southwest	ou.	yes	
ì		Autumn	AMCR	American Crow	1	-0	0 - 40 m	West	na	yes	
		Autumn	EABL	Eastern Bluebird	3	0	0 - 40 m	Northwest	OU	yes	
		Autumn	SOSP	Song Sparrow	1.	-0	0 - 40 m	Southeast	no	yes	
		Autumn	HOSP	House Sparrow	9	0	0 - 40 m	South/Southwest	no	yes	
		Autumn	AMCR	American Crow	m	-0	0-40 m	North	00	yes	
		Autumn	NOCA	Northern Cardinal	1	-0	0 - 40 m	East	na	yes	
		Autumn	MODO	Mourning Dove	4	0	0 - 40 m	Northeast	DU	, hes	
		Autumn	AMCR	American Crow	Š	-0	0 - 40 m	North/Northwest	00	yes	
11-0ct-11	m	Autumn	HOSP	House Sparrow	6	-0	0 - 40 m	Northwest	no.	yes	
		Autumn	COGR	Common Grackle	3	-0	0-40 m	Southeast	DO	yes	
		Autumn	EUST	European Starling	18	0	0 - 40 m	South/Southeast	υu	yes	
		Autumn	ROPI	Rock Pigeon	3	0	0 - 40 m	West	yes	yes	
		Autumn	HOLA	Horned Lark	2	0-0	0-40 m	East/Northeast	DU	yes	
		Autumn	NOFL	Northern Flicker	1	0	0 - 40 m	Northwest	pu	yes	
		Autumn	TUVU	Turkey Vulture	2	- 40-	40 - 180 m	South	yes	yes	6 Minutes
		Autumn	HOLA	Horned Lark	2	-0	0 - 40 m	Northwest	OU	, ves	
		Autumn	MODO	Mourning Dove	3	-0	0 - 40 m	Southwest	DU	yes	
		Autumn	ВПА	Blue Jay	F	-0	0 - 40 m	South	00	yes	
14-0ct-11	H	Autumn	AMCR	American Crow	5	-0	0 - 40 m	North/Northeast	na	yes	
	7	Autumn	AMRO	American Robin	1	0	0 - 40 m	East	no no	yes	
		Autumn	AMRO	American Robin	3	-0	0 - 40 m	West	no	yes	
		Autumn	HOLA	Homed Lark	3.	- 0 - I	0 - 40 m	Southwest	no	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date	Beliet	Constant	Code	Constint		Acres	Opse	Observation	Circling	Entered Project Area	Estimated time within rooter
		neeson	non	sarrade		He	Height	Direction	(yes/no)	(yes/no)	area
	A	Autumn	BEKI	Belted Kingfisher	T	0	0 - 40 m	West	na	yes	
	A	Autumn	NOFL	Northern Flicker	1	0	0 - 40 m	Northwest	22	yes	
	A	Autumn	DOWO	Downy Woodpecker	1	-0	0 - 40 m	Southeast	DU	yes	
14-0ct-11	1 A	Autumn	MODO	Mourning Dove	9	-0	0 - 40 m	North	00	yes	
	A	Autumn	KILL	Killdeer	2	0	0 - 40 m	Southeast	92	yes	
	Ā	Autumn	MALL	Mallard	4	0	0 - 40 m	South/Southeast	00	yes	
i	A	Autumn		Red-winged Blackbird	22	0	0 - 40 m	North	92	ķes	
	AL	Autumn	l,	Red-winged Blackbird	120	0	0 - 40 m	Northeast	00	ves	
	A	Autumn	1.	Brown-headed Cowbird	4	0	0 - 40 m	Northeast	DU	ves	
	Ā	Autumn	1.	Common Grackle	16	0	0 - 40 m	Northeast	02	ves	
	Ā	Autumn	HOLA	Horned Lark	T	-0	0 - 40 m	Southeast	DU U	Ves	
	Ā	Autumn	SOSP	Sone Sparrow	-	0	0-40 m	Northwest	98	Sen	
	V	Autumn	AMCR	American Crow	· ·	0	0.40 m	Fact	2	500	
14.0ct.11	7 4	Autumn	1:	Tirkou Walliano	, u	40	40 180 m	Southoast	one	Tes	2 Minutos
14-00-47		Training .	J.	Contract Oliverial	7	2	7000	Fact/Monthonet	ca.	Yes	2 WILLIAMS
		Autum	١,	Dinamin Dinamin	4 *	0	100	Countries and	2	co.	
	ć.	Autumn		Mourning Dave	4 1	ò	#0 m	Southwest	0	yes	
	Ā	Autumn	d	American Goldfinch	m	0	0 - 40 m	Northwest	02	yes	
	A	Autumn	1	Blue Jay	1	0	0 - 40 m	North	2	yes	
	¥	Autumn	Л	European Starling	82	0	0 - 40 m	South	00	yes	
	A	Autumn		European Starling	44	-0	0 - 40 m	West	no	yes	
	A	Autumn	AMCR	American Crow	3	-0	0 - 40 m	Northwest	OU	sex	
	A	Autumn	NOFL	Northern Flicker	1	-0	0 - 40 m	South/Southeast	2	yes	
	A	Autumn		Mourning Dove	5	-0	0 - 40 m	North	OU	yes	
	A	Autumn	MODO	Mourning Dove	m	0	0 - 40 m	East	92	yes	
	Ā	Autumn	U	American Crow	13	-0	0-40 m	East/Southeast	no	yes	
14.0c+.11	2 AL	Autumn		American Robin	П	-0	0 - 40 m	West	2	yes	
		Autumn		Song Sparrow	т	-0	0 - 40 m	Northwest	DO.	yes	
	A	Autumn	1	House Sparrow	6	-0	0 - 40 m	Southwest	OL	yes	
	A	Autumn		Turkey Vulture	2	- 40	40 - 180 m	South/Southeast	yes	yes	3 Minutes
	A	Autumn		European Starling	15	0	0 - 40 m	East	DL.	yes	
	A	Autumn		Red-winged Blackbird	.27	-0	0 - 40 m	West	no	yes	
	A	Autumn		Red-tailed Hawk	T	- 40 -	40 - 180 m	North	yes	yes	1 Minutes
	A	Autumn	MODO	Mourning Dove	3	0	0-40 m	North	ou	yes	
	A	Autumn	AMCR	American Crow	2	-0	0 - 40 m	Southwest	na	yes	
ľ	A	Autumn	MODO	Mourning Dove	Š	0	0 - 40 m	South/Southeast	na	yes	
16-0ct-11	1 AL	Autumn	AMRO	American Robin	9	0	0 - 40 m	East	2	yes	
	A	Autumn		European Starling	82	-0	0 - 40 m	West	yes	yes	
	A	Autumn	RWBL	Red-winged Blackbird	150	-0	0-40 m	North/Northeast	no	yes	
	A	Autumn		Common Grackle	12	-0	0 - 40 m	North/Northeast	no	yes	
	A	Autumn	EUST	European Starling	80	0	0 - 40 m	North/Northwest	na	yes	
	A	Autumn	1.11	Red-tailed Hawk	1	0	0 - 40 m	North	01	yes	
	A	Autumn		American Crow	9	-0	0 - 40 m	South	20	yes	
16.0ct-11	7 AL	Autumn		American Crow	o,	0	0 - 40 m	East/Southeast	00	yes	
-		Autumn		Horned Lark	2	0	0 - 40 m	Southwest	00	yes	
	A	Autumn		Song Sparrow	1	ö	0 - 40 m	Northwest	2	yes	
	A	Autumn		Osprey	н	7	>180 m	South	01	yes	
	A	Autumn	AMGO	American Goldfinch	5	-0	0-40 m	East	no	yes	

Diumal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date Point	rt Season	Code	Species	#		Observation	Circling	Entered Project Area	Estimated time within rooter
	1		-		à	Direction	(\du/sak)	(yes/no)	area
	Autumn	SOSP	Song Sparrow	1		Southeast	DQ.	sak	
	Autumn	HOSP	House Sparrow	6	0 - 40 m	South	DO	yes	
	Autumn	AMCR	American Crow	3	0 - 40 m	Northwest	nd	yes	
	Autumn	ВПА	Blue Jay	2	0 - 40 m	North/Northwest	no	yes	
16-0ct-11 3	Autumn	HOLA	Horned Lark	Ŧ	0 - 40 m	South	OL.	yes	
	Autumn	AMRO	American Robin	S	0 - 40 m	East	DQ.	yes	
	Autumn	EUST	European Starling	48	0 - 40 m	East/Northeast	OU	yes	
	Autumn	EUST	European Starling	2	0 - 40 m	West/Northwest	na	yes	
	Autumn	RWBL	Red-winged Blackbird	52	0 - 40 m	North	DO.	yes	
	Autumn	AMGO	American Goldfinch	5	0 - 40 m	East	ou 0u	yes	
	Autumn	RWBL	Red-winged Blackbird	81	0 - 40 m	Northeast	na	yes	
	Autumn	COGR	Common Grackle	18	0 - 40 m	Northeast	no	yes	
	Autumn	AMCR	American Crow	S	0 - 40 m	Southwest	2	ves	
	Autumn	AMCR	American Crow	o.	0 - 40 m	South/Southeast	uo	sex	
	Autumn	RHWO	Red-headed Woodpecker	2	0 - 40 m	East	00	ves	
	Autumn	KILL	Killdeer	1	0-40 m	Southwest	no	Ves	
18-Oct-11 1	Autumn	MALL	Mallard	2	0 -40 m	West	00	ves	
	Autumn	HOLA	Horned Lark	m	0 - 40 m	South	DO	Ves	
	Autumn	AMRO	American Robin	1	0 - 40 m	Northwest	2	ves	
	Autumn	RWBL	Red-winged Blackbird	64	0 - 40 m	North/Northeast	02	× ×	
	Autumn	AMCR	American Crow	3	0 - 40 m	East/Southeast	Q	ves	
	Autumn	UVUT	Turkey Vulture	H	>180 m	South	92	yes	
	Autumn	SOSP	Song Sparrow	T	0 - 40 m	West	DO	yes	
	Autumn	TUVU	Turkey Vulture	2	40-180 m	South	ves	ves	5 Minutes
	Autumn	AMCR	American Crow	1	0 - 40 m	Sauthwest	00	yes	
	Autumn	EUST	European Starling	7	0 - 40 m	East	00	yes	
78-OCE-71	Autumn	HOLA	Horned Lark	2	0 - 40 m	Northwest	DO.	yes	
	Autumn	EUST	European Starling	4	0 - 40 m	Northeast	00	yes	
	Autumn	CAGO	Canada Goose	8	40-180 m	South/Southwest	0.0	yes	
	Autumn	3H85	Great Blue Heron	2	40 - 180 m	Northeast	pu	sak	2 Minutes
	Autumn	HOLA	Homed Lark	ĸ	0 - 40 m	Northwest	DO.	yes	
	Autumn	НОЅР	House Sparrow	12	0 - 40 m	Southeast	00	yes	
	Autumn	EUST	European Starling	55	0 - 40 m	South/Southwest	00	yes	
	Autumn	BUA	Blue Jay	м	0 - 40 m	Southeast	na	yes	
18-Oct-11	Autumn	EABL	Eastern Bluebird	9	0 - 40 m	West/Narthwest	90	sek	
	Autumn	HOSP	House Sparrow	S	0 - 40 m	East	OU	yes	
	Autumn	SOSP	Song Sparrow	1	0 - 40 m	West	no.	yes	
	Autumn	CEDW	Cedar Waxwing	7	0 - 40 m	Northwest	no	yes	
	Autumn	RBWO	Red-bellied Woodpecker	1	0 - 40 m	West/Northwest	υo	yes	
	Autumn	AMCR	American Crow	9	0 - 40 m	Southeast	na	yes	
	Autumn	BUA	Blue Jay	1	0 - 40 m	North	na	yes	
	Autumn	RTHA	Red-tailed Hawk	1	40 - 180 m	Northwest	yes	yes	3 Minutes
	Autumn	NOFL	Northern Flicker	T	0 - 40 m	South/Southeast	na	yes	
	Autumn	HOLA	Horned Lark	4	0 - 40 m	Southwest	no	yes	
	Autumn	MODO	Mourning Dove	7.	0 - 40 m	Northeast	92	yes	
21-0ct-11 1	Autumn	MODO	Mourning Dove	2	0 - 40 m	East	92	yes	
	Autumn	AMCR	American Crow	m	0 - 40 m	West/Southwest	na	yes	
	Autumn	HOSP	House Sparrow	. 5	0 - 40 m	North	UO UI	yes	
	Autumn	KILL	Killdeer	1	40-180 m	Southwest	no	yes	
	Autumn	AMCR	American Crow	2	0 - 40 m	North/Northwest	011	yes	

Diumal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date Po	Point	Season	Code	Species	#	Age	Observati	Circling	Entered Project Area	Estimated time within rooter
						Siau	8	fou (sak)	(ou /sak)	palp
	4	Autumn	EUST	European Starling	1	0 - 40 m		ou.	yes	
	ď.	Autumn	AMRO	American Robin	2	0 - 40 m	im South/Southeast	no	yes	
	ď	Autumn	CEDW	Cedar Waxwing	6	0 - 40 m	Im South	pu	yes	
	ď	Autumn	NOCA	Northern Cardinal	H	0 - 40 m	Im Southwest	011	yes	
	ď	Autumn	MODO	Mourning Dove	00	0 - 40 m	im East	00	yes	
	q	Autumn	MODO	Mourning Dove	1	0 - 40 m	m East/Northeast	DU	yes	
21-0ct-11	2 A	Autumn	AMCR	American Crow	4	0 - 40 m	ım West	6	yes	
	A	Autumn	SOSP	Song Sparrow	1	0 - 40 m	m West/Northwest	no	yes	
	A	Autumn	EABL	Eastern Bluebird	9	0-40 m	m Southeast	OU.	yes	
	q	Autumn	AMKE	American Kestrel	1	40-180 m	10 m South/Southeast	ou	yes	1 Minute
	Q	Autumn	AMRO	American Robin	2	0 - 40 m	ım West	ou	yes	
	4	Autumn	ВПА	Blue Jay	4	0 - 40 m	im West/Southwest	00	yes	
	ď	Autumn	NOHA	Northern Harrier	1	0 - 40 m		92	yes	
	V	Autumn	AMCR	American Crow	5	0 - 40 m		OU.	ves	
	. 4	Autumn	MODO	Mourning Dove	2	0 - 40 m	Sot	ou	Ves	
	4	Autumn	HOLA	Horned Lark	1	0 - 40 m	t	DU.	Ves	
	٧	Autumn	HOSP	House Sparrow	9	0 - 40 m		92	ves	
	ď	Autumn	EABL	Eastern Bluebird	4	0 - 40 m	N	00	Ves	
	Q	Autumn	CAGO	Canada Goose	22	0 - 40 m	E	00	yes	
	ď	Autumn	SOSP	Song Sparrow	1	0 - 40 m	t	92	ķes	
		Autumn	RWBL	Red-winged Blackbird	250	0 - 40 m	Im North	DU.	yes	
71-Oct-11	n	Autumn	COGR	Common Grackle	118	0 - 40 m	'm' North	OL.	ves	
	d	Autumn	RWBL	Red-winged Blackbird	122	40 180 m	0 m Southeast	ou	yes	2 Minutes
	A	Autumn	внсо	Brown-headed Cowbird	9	40-180 m	0 m Southeast	OU	yes	2 Minutes
	d	Autumn	MODO	Mourning Dove	1	0 - 40 m	Im South/Southwest	00	yes	
	¥	Autumn	RBGU	Ring-billed Gull	15	0 - 40 m	Im Northwest	na	yes	
	A	Autumn	BEKI	Belted Kingfisher	1	40 - 180 m	i0 m North/Northwest	00	yes	1 Minute
	A	Autumn	AMRO	American Robin	5	0 - 40 m	m North	na	yes	
	A	Autumn	EABL	Eastern Bluebird	8	0 - 40 m	im East	OU	yes	
	A	Autumn	NOCA	Northern Cardinal	1	0 - 40 m	i m Northwest	OL	sak	
	A	Autumn	BUA	Blue Jay	2	0 - 40 m	m Northeast	no	yes	
	A	Autumn	AMRO	American Robin	3	0 - 40 m	Sou	00	yes	
	A	Autumn	MODO	Mourning Dove	S	0-40 m	Im Southeast	OU.	yes	
	A	Autumn	AMCR	American Crow	7	0 - 40 m		ou	yes	
23-0ct-11	1	Autumn	EABL	Eastern Bluebird	4	0 - 40 m	West,	OU	hes	
	A	Autumn	HOSP	House Sparrow	6	0 - 40 m		DQ.	yes	
	7	Autumn	TUVUT	Turkey Vulture	,	40-180 m	0 m South	yes	yes	8 Minutes
	A	Autumn	RWBL	Red-winged Blackbird	207	0 - 40 m	ım Southeast	υu	yes	
	¥	Autumn	COGR	Common Grackle	5	0 - 40 m	Sc	no	yes	
	A	Autumn	SAVS	Savannah Sparrow	1	0 - 40 m	m West	no	yes	
	A	Autumn	CAGO	Canada Goose	13	0 - 40 m	im Northwest	OU	seA	
	ď	Autumn	AMCR	American Crow	2.	0 - 40 m	im North/Northeast	na	yes	
	A	Autumn	RTHA	Red-tailed Hawk	1	40-180 m	10 m South	sak	sex	4 Minutes
	d	Autumn	HOLA	Horned Lark	1	0 - 40 m	ım Southwest	pu	yes	
		Autumn	CEDW	Cedar Waxwing	2	0 - 40 m	Im East	92	yes	
23-OCT-11	Y Y	Autumn	EABL	Eastern Bluebird	m	0 - 40 m	m East/Southeast	00	yes	
	A	Autumn	AMRO	American Robin	7	0 - 40 m	ım West	no	yes	
	A	Autumn	AMRO	American Robin	T	0 - 40 m	m West/Northwest	OU	yes	
	4	Autumn	SOSP	Song Sparrow	1	0 - 40 m		na	sek	
	V	Autumn	AMCR	American Crow	4	0 -40 m	m North	OL.	sex	

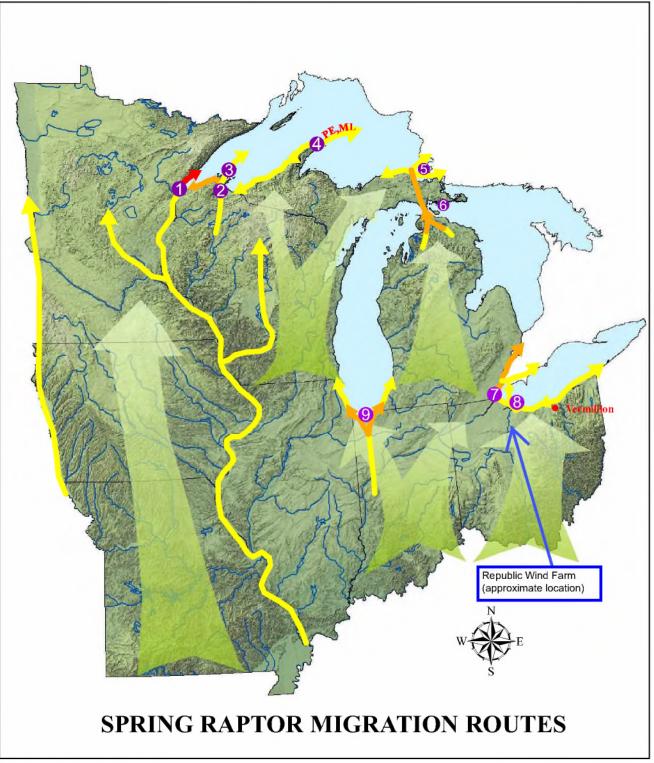
nate	Point	Season	Code	Species	n	Age	Height	Direction	(ves/no)	(ves/no)	area
		Autumn	COHA	Cooper's Hawk	Ŧ	40	40-180 m	South	SdA	SdA	2 Minutes
	4	Autumn	NOFL	Northern Flicker	1	0	0 - 40 m	Northwest	2	ves	
	. 7	Autumn	HOSP	House Sparrow	i c	0	0-40 m	North/Northwest	20	N d	
	. ~	Aufumn	NOCA	Northern Cardinal	2		0-40 m	South/Southwest	00	1 Nes	
	~	Autumn	AMRO	American Robin	m	0	0-40 m	North	92	yes	
23-0ct-11	3	Autumn	AMCR	American Crow	16	0	0 - 40 m	East	DO	yes	
	1	Autumn	EABL	Eastern Bluebird	2	0	0-40 m	West	00	yes	
	1	Autumn	EUST	European Starling	86	0	0 - 40 m	Southwest	na	hes	
	7	Autumn	RWBL	Red-winged Blackbird	160	0	0 - 40 m	Southwest	01	yes	
	-	Autumn	RWBL	Red-winged Blackbird	49	0	0-40 m	South/Southwest	00	yes	
	1	Autumn	COGR	Common Grackle	m	0	0-40 m	South/Southwest	no	yes.	
		Autumn	AMRO	American Robin	1	0	0-40 m	Northeast	DQ.	sek	
	~	Autumn	MODO	Mourning Dave	3	0	0-40 m	Northwest	92	yes	
	-	Autumn	AMCR	American Crow	7	0	0 - 40 m	South	na	yes	
	4	Autumn	MODO	Mourning Dave	2	0	0 - 40 m	South/Southwest	no	yes	
	-	Autumn	WITU	Wild Turkey	н	0	0 - 40 m	East/Southeast	DU	yes	
	-	Autumn	HOLA	Horned Lark	2	0	0 - 40 m	East	no	yes	
		Autumn	SOSP	Song Sparrow	ŧ	0	0 - 40 m	West	no	yes	
23-0ct-11	3	Autumn	EABL	Eastern Bluebird	5	0	0 - 40 m	West	no no	yes	
		Autumn	HOSP	House Sparrow	7	0	0 - 40 m	West/Southwest	OL	, ves	
	-	Autumn	HOSP	House Sparrow	4	0	0 - 40 m	Southwest	na	yes	
	4	Autumn	NOCA	Northern Cardinal	1	0	0 - 40 m	Southeast	00	hes	
	-	Autumn	RWBL	Red-winged Blackbird	350	0	0 - 40 m	North/Northwest	DO	yes	
	4	Autumn	COGR	Common Grackle	14	0	0 - 40 m	North/Northwest	10	yes	
	~	Autumn	RWBL	Red-winged Blackbird	700	0	0 - 40 m	North	00	hes	
	-	Autumn	AMRO	American Robin	1	0	0 - 40 m	Southeast	no	yes	
	-	Autumn	AMRO	American Robin	T	0	0 - 40 m	Northwest	na	, ves	
	-	Autumn	MODO	Mourning Dave	2	0	0 - 40 m	North/Northeast	00	ves	
		Autumn	AMCR	American Crow	4	40	40 - 180 m	South	na	sek	1 Minute
	4	Autumn	HOLA	Horned Lark	1	0	0-40 m	West	OL	sak	
	4	Autumn	TUVU	Turkey Vulture	7	40	40 - 180 m	West	yes	hes	8 Minutes
	-	Autumn	SOSP	Song Sparrow	1	٥	0 - 40 m	Northeast	no	yes	
25-0ct-11	1	Autumn	HOLA	Horned Lark	m	0	0 - 40 m	Southeast	2	yes	
		Autumn	CAGO	Canada Goose	15	40	40 - 180 m	South/Southeast	90	yes	1 Minute
		Autumn	NOFE	Northern Flicker	40	0 0	0 40 m	South	0	šek	
		Autumn	ANACE	American Cross	1 0		404	Fact	2 6	, and	
		Autumn	BLA	Blue Jav	1		0 - 40 m	East/Southeast	00	Ves	
	*	Autumn	NOCA	Northern Cardinal	1	0	0-40 m	North	00	ves	
	,	Autumn	RWBL	Red-winged Blackbird	200	0	0 - 40 m	West	οu	yes	
	7	Autumn	NOCA	Northern Cardinal	T	0	0 - 40 m	Northwest	DU	yes	
	-	Autumn	HOLA	Horned Lark	2	٥	0 - 40 m	Northeast	na	yes	
		Autumn	CAGO	Canada Goose	o,	0	0-40 m	South	00	yes	
		Autumn	HOLA	Horned Lark	2	0	0 - 40 m	Southwest	90	yes	
		Autumn	RWBL	Red-winged Blackbird	220	40	40-180 m	West	OU.	yes	2 Minutes
25-0ct-11	7 7	Autumn	EUST	European Starling	105	40	40 - 180 m	West	2	yes	
		Autumn	RWBL	Red-winged Blackbird	250	0	0 - 40 m	Southwest	no	səh	
	~	Autumn	COGR	Common Grackle	18	0	0-40 m	Southwest	OL.	sek	
		Autumn	AMCR	American Crow	9	٥	0 - 40 m	North	ng	sek	
1	7	Autumn	EUST	European Starling	25	0		Northeast	00	sek	
	*	Autumn	EABL	Eastern Bluebird	2	0	- 40 m	South/Southeast	no	yes	

Diurnal Bird and Raptor Migration Survey Republic Wind, Seneca County, Ohio.

Date		Code	Species	#	Age	Height	Direction	(ou/sak)	(ves/no)	area
	A. thumb	word.			ŀ					
	Autumn	AMCR	American Crow	5		0 - 40 m	Northwest	DQ.	yes	
	Autumn	HOLA	Homed Lark	1	Ī	0 - 40 m	North/Northeast	00	yes	
	Autumn	NOHA	Northern Harrier	1		0 - 40 m	South	DU	yes	
	Autumn	RWBL	Red-winged Blackbird	45		0 - 40 m	East/Southeast	OU	yes	
	Autumn	COGR	Common Grackle	12		0 - 40 m	Southwest	00	yes	
	Autumn	PIWO	Pileated Woodpecker	н	Ī	0 - 40 m	South/Southwest	90	yes	
DE 0-4 11	Autumn	NOFL	Northern Flicker	1		0-40 m	Northeast	-Ou	yes	
	Autumn	RBGU	Ring-billed Gull	80		40-180 m	South	yes	yes	6 Minutes
	Autumn	AMCR	American Crow	3		0 - 40 m	North	DO.	yes	
	Autumn	AMRO	American Robin	1		0 - 40 m	East/Northeast	ОП	yes	
	Autumn	SOSP	Song Sparrow	ri.	ľ	0 - 40 m	East	no	yes	
	Autumn	EABL	Eastern Bluebird	.5		0 - 40 m	West	ОП	ves	
	Autumn	EUST	European Starling	7		0 - 40 m	Northwest	DU	yes	_
	Autumn	HOSP	House Sparrow	4		0-40 m	East/Southeast	OL	yes	
	Autumn	EABL	Eastern Bluebird	2		0 - 40 m	Northeast	OU	\$ex	
	Autumn	AMRO	American Robin	1		0 - 40 m	Northwest	DO	yes	
	Autumn	AMCR	American Crow	5	Ī	0 - 40 m	South	ОП	yes	
	Autumn	HOLA	Horned Lark	3		0 - 40 m	South/Southwest	0U	yes	
	Autumn	EUST	European Starling	22		0 - 40 m	East	00	yes	
	Autumn	RWBL	Red-winged Blackbird	125		0-40 m	East	92	ķes	
28-Oct-11 1	Autumn	COGR	Common Grackle	18		0 - 40 m	East	DQ.	yes	
	Autumn	COGR	Common Grackle	7		40 - 180 m	Southeast	9	yes	1 Minute
	Autumn	MODO	Mourning Dove	m		0-40 m	Northwest	DO	yes	
	Autumn	MODO	Mourning Dove	9	Ī	0 - 40 m	South/Southwest	00	yes	
	Autumn	AMKE	American Kestrel	1		0 - 40 m	North	ou	yes	
	Autumn	HOSP	House Sparrow	3		0 - 40 m	Northeast	90	yes	
	Autumn	SOSP	Song Sparrow	1		0 - 40 m	Northwest	ОП	yes	
	Autumn	AMCR	American Crow	2		0 - 40 m	East	ОП	seA	
	Autumn	EUST	European Starling	1		0 - 40 m	Southwest	ng	sex	
	Autumn	AMIGO	American Goldfinch	1		0 - 40 m	Northwest	ОП	yes	
	Autumn	GBHE	Great Blue Heron	1		40 - 180 m	South	no.	yes	1 Minute
	Autumn	UVUT	Turkey Vulture	1		40 - 180 m	East	yes	yes	3 Minutes
28-Oct-11	Autumn	TRES	Tree Swallow	m		0 - 40 m	East	2	yes	
_	Autumn	AMCR	American Crow	2		0 - 40 m	South	na	yes	
	Autumn	ВПА	Blue Jay	Ħ.		0 - 40 m	Northeast	00	yes	
	Autumn	EUST	European Starling	00	1	0 - 40 m	Northwest	92	yes	
	Autumn	EABL	Eastern Bluebird	ň		0-40m	East/Southeast	90	yes	
	Autumn	NOCA	Northern Cardinal		Ì	0 - 40 m	West	00	yes	
	Autumn	HOSE	House Sparrow	7	1	0-40 m	west	DO.	yes	
	Autumn	RWBL	Red-winged Blackbird	100	Ì	0 - 40 m	Northeast	2	yes	
	Autumn	AMCR	American Crow	9	1	0-40 m	Southwest	00	ves	
	Autumn	LOVO	Turkey Vulture	1	Ì	40 - 180 m	South/Southwest	sak	sek	3 Minutes
	Autumn	AMGO	American Goldfinch	6		0-40 m	North	9	yes	
	Autumn	AMRO	American Robin	7		0 - 40 m	East	00	yes	
28-Oct-11 3	Autumn	RWBL	Red-winged Blackbird	27		0 - 40 m	East	00	yes	
	Autumn	COGR	Common Grackle	2		0 - 40 m	East	ы	yes	
	Autumn	MODO	Mourning Dave	13		0 - 40 m	Southwest	no	yes	
	Autumn	NOCA	Northern Cardinal	H.		0 - 40 m	South	no	yes	
	Autumn	EABL	Eastern Bluebird	3		0 - 40 m	South/Southwest	na	hes	
	Autumn	AMCR	American Crow	1		0 - 40 m	West	ОП	yes	
	Autumn	NOFL	Northern Flicker	1.		0 - 40 m	West	no	yes	

APPENDIX B

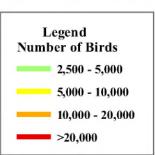
Ohio Raptor Migration Maps



American Kestrel Bald Eagle Boreal Owl	
Poroal Oud	
boleal Owl	
Broadwing	
Cooper's Hawk	
Golden Eagle	
Long-eared Owl	
Merlin	
Northern Goshawk	
Northern Harrier	
O Northern Saw-whet O	w
Osprey	
Pregrine Falcon	
Rough-legged Hawk	
Red-shouldered Haw	k
Red-tailed Hawk	
Short-eared Owl	
Sharp-shinned Hawk	
Turkey Vulture	

Major Raptor Migration Observation Sites

- 1 West Skyline Observatory, Duluth (TV,OS,BE,SS, BW,RT,RL,GE)
- Chequemegon Bay, Ashland (TV,SS,BW,RT,GE,BE)
- Apostle Islands (AK,ML,PG)
- 4 Manitou Island/Keewenaw Peninsula (OS,SS,RL, NH,BE,PE,ML)
- (5) Whitefish Point (TV,BE,NH,SS,RS,BW,RT,RL,GE,AK,ML,PG,NSWO,BO,LEO)
- 6 Straits of Mackinac (TV,BE,SS,CH,RS, RT,RL,BW,GE)
- 7 Port Huron (TV,SS,RS,RT,BW)
- 8 Lake Erie Islands (TV,SS,BE,NH,OS,ML,PG)
- (9) Indiana Dunes NL (OS,NH,SS,RS,BW,RT,AK)

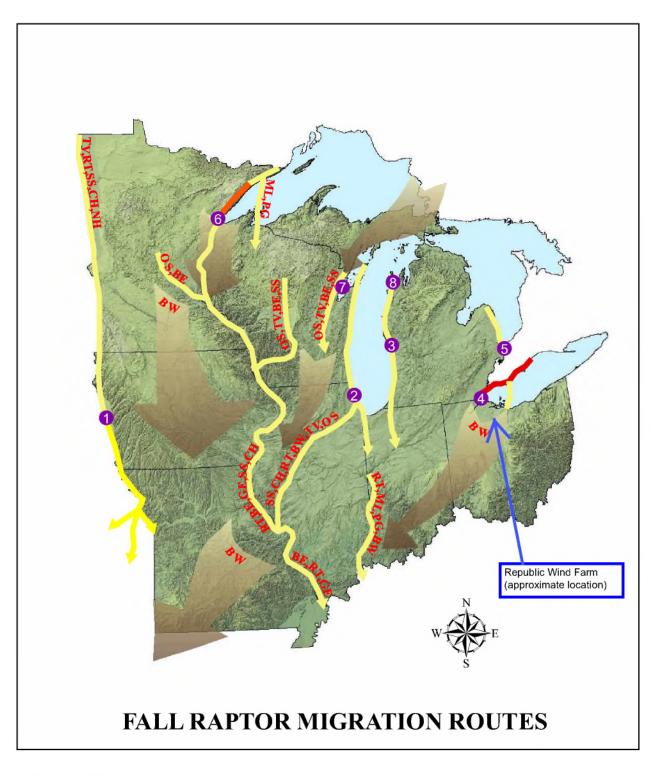


Map Created for: Division of Migratory Birds October, 2006

Fall Migratory Bird Information provided by USFWS Migratory Bird Biologist Bob Russell



U.S. Fish & Wildlife Service Region 3 NWRS Division of Conservation Planning Twin Cities, Minnesota 55111



SYMBOL	COMMON NAME
AK	American Kestrel
BE	Bald Eagle
во	Boreal Owl
BW	Broadwing
CH	Cooper's Hawk
GE	Golden Eagle
LEO	Long-eared Owl
ML	Merlin
NG	Northern Goshawk
NH	Northern Harrier
NSWO	Northern Saw-whet Owl
os	Osprey
PG	Pregrine Falcon
RL	Rough-legged Hawk
RS	Red-shouldered Hawk
RT	Red-tailed Hawk
SEO	Short-eared Owl
SS	Sharp-shinned Hawk
TV	Turkey Vulture

Major Raptor Migration Observation Sites

- 1 Hitchcock Nature Area (CH,RT,SS,TV,SW,NH)
- 2 Illinois Dunes State Park (ML,NH,PG,SEO)
- 3 Muskegon State Park (SS,RL,RT)
- 4 Lake Erie Metropark (TV,OS,BE,NH,SS,CH,RT, RL,GE,AK,ME,PG)
- 6 Port Huron (PG,ML)
- (6) Hawk Ridge, Duluth (TV,OS,BE,NH,SS,BW,NG, RT,RL,AK,ML,PG,BO,NSWO,LEO)
- 7 Little Suemico (SS,BW,NSWO)
- 8 Skeeping Bear Dunes NL (RL,RT,SS)

Legend
Number of Birds

2,500 - 25,000

25,000 - 50,000

50,000 - 100,000

>100,000

Map Created for: Division of Migratory Birds October, 2006 Fall Migratory Bird Information provided by USFWS Migratory Bird Biologist Bob Russell



	APPENDIX C		
Photographs of Diu	rnal Bird/Raptor Mi	gration Survey Locat	ions



Photo 1. Point 1, facing east.

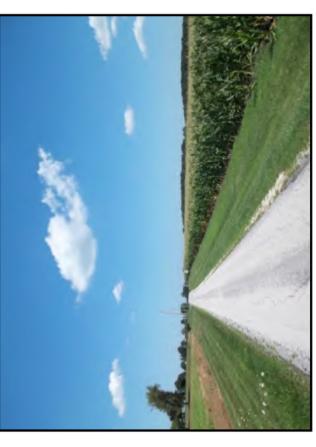


Photo 2. Point 1, facing north.



Photo 3. Point 1, facing west.



Photo 4. Point 2, facing east.



Photo 5. Point 2, facing north.



Photo 6. Point 2, facing south.



Photo 7. Point 3, facing east.



Photo 8. Point 3, facing south.



Photo 9. Point 3, facing west.

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in

Case No(s). 17-2295-EL-BGN

Summary: Application Exhibit K electronically filed by Teresa Orahood on behalf of Dylan F. Borchers