



Gulf Coast Network Breeding Bird Monitoring Annual Report

2014 Results from San Antonio Missions National Historical Park

Natural Resource Data Series NPS/SAAN/NRDS—2015/756



ON THE COVER

Northern Mockingbird, *Mimus polyglottos*

Photograph by: William Finney, NPS Gulf Coast Network

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U.S. Department of the Interior
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Acknowledgments

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Introduction

In 2010, the Gulf Coast Inventory and Monitoring Network (GULN) of the National Park Service (NPS) implemented the first year of long-term landbird monitoring on San Antonio Missions National Historical Park (SAAN; Twedt 2010). Dan Twedt of the USGS Patuxent Wildlife Research Center developed a protocol building on existing peer reviewed methods for monitoring birds on each park in the GULN. This annual report provides a summary of 2014 breeding bird monitoring efforts on SAAN, including: (1) a summary of the monitoring protocol, (2) a summary of point count results, and (3) a species list of birds detected.

The GULN is located in portions of six states, spanning from Brownsville, Texas, to Pensacola, Florida, and north to Nashville, Tennessee. The network includes eight National Park Service units: Big Thicket National Preserve (BITH), Gulf Islands National Seashore (GUIS), Jean Lafitte National Historical Park and Preserve (JELA), Natchez Trace Parkway (NATR), Palo Alto Battlefield National Historical Park (PAAL), Padre Island National Seashore (PAIS), San Antonio Missions National Historical Park (SAAN), and Vicksburg National Military Park (VICK).

SAAN is primarily a historical park showcasing missions along the San Antonio River; however, it also contains 331 ha of upland forest, shrubland, grassland, and riparian forest surrounding the missions that provides valuable wildlife habitat within an urban landscape (Figure 1). In addition to the mission sites within downtown San Antonio, there is Rancho de las Cabras located 45 miles southeast of the missions in Floresville, TX. This area is a mixture of mesquite trees, open grassland, and riparian forest that borders the San Antonio River and is surrounded by agricultural fields (Figure 2).

Landbird monitoring contributes to the vital signs monitoring program that has been developed by the GULN (Segura et al. 2007). Breeding landbirds ranked highly among all of the potential vital signs evaluated by the GULN. Key reasons for monitoring landbirds in SAAN are that landbirds (1) come under the legal mandate related to the Endangered Species Act and Migratory Bird Treaty Act; (2) are specifically identified in the management objectives of the GULN; and (3) are potential indicators of the effects of local and regional changes in ecosystems because of their rapid metabolism and high ecological position in most food webs. In addition, comparable regional and national datasets exist for landbird monitoring adjacent to several GULN parks. The Gulf Coast is widely recognized to be a major flyway, breeding, and over-wintering area for many migratory species. Monitoring birds in parks can provide insight regarding habitat changes within parks and may contribute to regional or national databases that further our understanding of continental bird population trends. Ecologically, birds are an important and diverse component of park ecosystems.

This annual report provides an overview of the methodology and implementation of yearly field surveys. Results presented in this report are limited to general information about bird species presence and abundance. Additional analyses and synthesis reports will be completed every second year beginning in 2013, to include results of species detectability and density, community and habitat structure, and breeding bird status and trends.

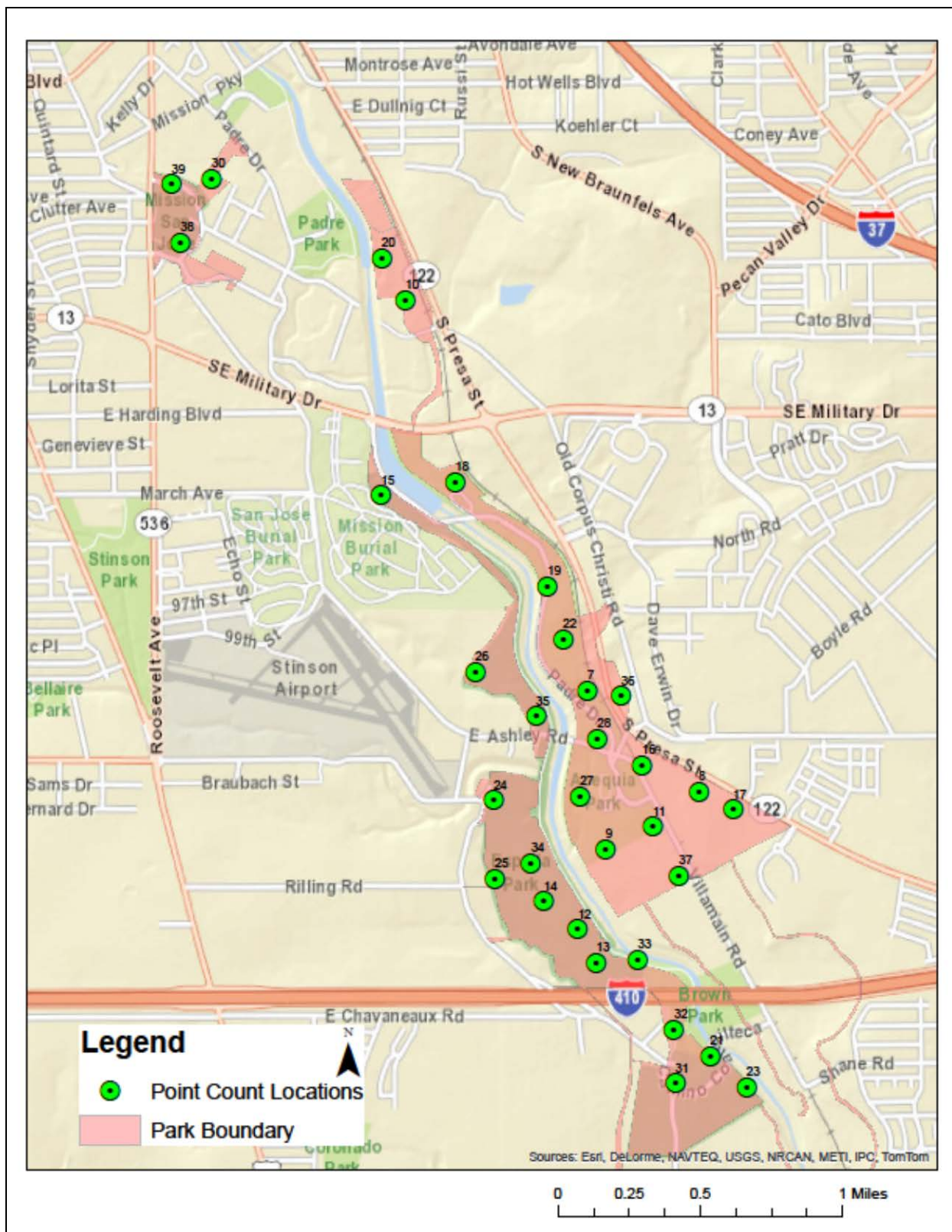


Figure 1. Park map of points located within missions sites.

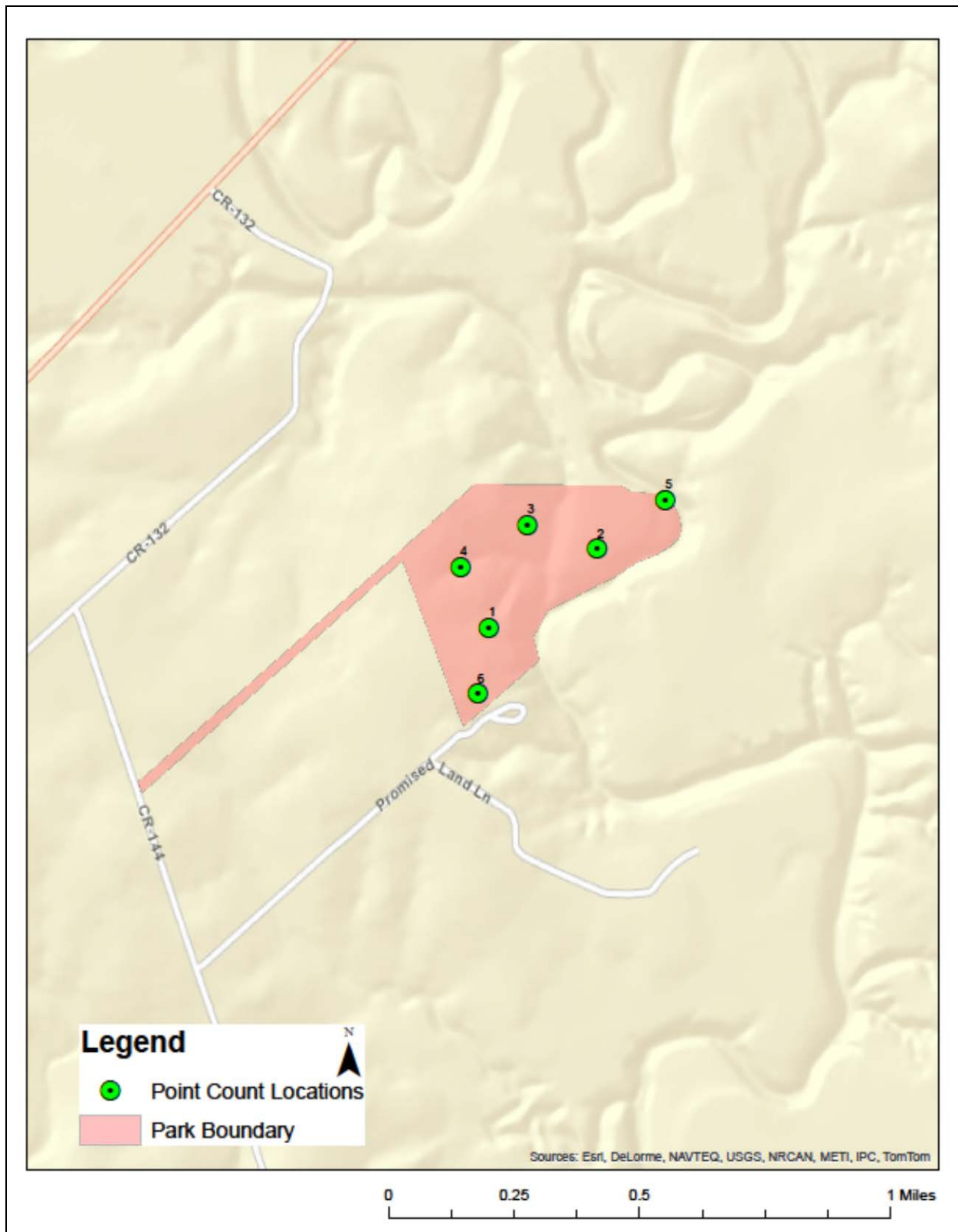


Figure 2. Park map of points located within Rancho de las Cabras.

Methods

Sampling Design

Because monitoring of narrow linear corridors and small isolated units of park ownership would result in monitoring of many birds located outside of park boundaries, an internal buffer of 25 m was used to restrict random locations to those areas within SAAN where ownership boundaries were > 50 m in diameter. This process yielded ten park units that ranged in area from 2 to 105 ha. Within these ten larger areas of SAAN, Hawth's Analysis Tools (Version 3.27) within ArcMap 9.2 GIS was used to select 40 random survey locations that were separated by ≥ 200 m and divided into four panels. Locations were allocated proportionate to the area of each park-unit (approximately one location per 5 ha) with a maximum of 12 locations per park-unit. ArcMap GIS was used to assess the area surrounding each random point and if a historical bird count location (Scully 2006) was within a 100-m radius of the random location the random survey location was relocated to replace the historical survey location. This procedure resulted in 9 of 25 historical bird sampling point locations (03, 06, 08, 09, 12, 13, 14, 17, and 25) being incorporated into this recommended sampling scheme (Sully 2006). Surveys were conducted between one-half hour before sunrise and four hours after sunrise (~10:00 h) during clement weather (i.e., no rain or high winds). At the first detection of each individual bird, observers recorded species identity, the time within 1-minute intervals (i.e., 0:00–:59 sec, 1:00–1:59 min, 2:00–2:59 min, 3:00–3:59 min, 4:00–4:59 min, 5:00–5:59 min, 6:00–6:59 min, 7:00–7:59 min, 8:00–8:59 min, 9:00–9:59 min), and estimated distance within four distance annuli (0–25 m, 25–50 m, 50–100 m, and > 100 m). Individual birds were recorded only once (at their first detection), not in each time interval within which they were detected (Twedt 2010). Data from categorical distance estimation and time of first detection will be used in the future to estimate detection probability and thus relative abundance of commonly detected species.

Monitoring schedule

In accordance with the GULN landbird monitoring plan, SAAN is monitored every year during the breeding season between the optimal dates 15 May and 15 June, but if necessary, surveys may be conducted between 1 May and 30 June. In 2014, sampling was conducted from May 24 to June 1, and covered sampling points in panels one, two, three, and four (40 points). Sampling was conducted by Mike Scully, a member of the San Antonio Audubon Society.

Data Reporting

The data summary table was created using MS Excel 2010. The standard data summary report includes: number of points a species was detected, number of bird species detections for the sampling event, and a list of species detected.

Data Handling

Data were recorded on standardized GULN 10 minute point count data sheets (Appendix A). After the data were verified and validated by Mike Scully, data sheets were scanned at 400 dpi, saved as pdf files, and emailed to the GULN data manager. Data sheets were checked again by the GULN data manager for consistency and correctness, resolving any questionable hand written data. Original data sheets were mailed to the GULN data manager after all scanned files were received via email. All data were then entered into the Eastern Avian Data Center (EADC 2014), a product of the Avian Knowledge Network and hosted by Point Blue Data Solutions, (<http://data.prbo.org/partners/eadc/>) by GULN data management staff. Data were exported to MS Excel where pivot tables were used to summarize the data and to allow for export to other data formats. Data for this report are also made available by going to the GULN Landbird Project record in the NPS Integrated Resource Management Applications (IRMA) portal at: <https://irma.nps.gov/App/Reference/Profile/2190870>.

Results

All 40 permanent survey points were sampled throughout the park. A total of 74 species were documented during the sampling period. The top ten most abundant birds include: cliff swallow, white-winged dove, northern cardinal, cave swallow, Carolina wren, northern mockingbird, great-tailed grackle, house sparrow, black-crested titmouse, and white-eyed vireo. The survey resulted in 1,790 bird detections. Table 1 summarizes species detections and counts. Data summaries include birds detected within all distance bands of 0–25 m, 25–50 m, 50–100 m, and >100 m.

All project data has been exported from the Eastern Avian Data Center of the Avian Knowledge Network and is located in Appendix B of this report.

Table 1. Summary bird counts and species list.

Species	Total Individuals	Distinct Points	Total Flyovers
Cliff Swallow	481	10	0
White-winged Dove	301	22	272
Northern Cardinal	126	27	0
Cave Swallow	92	9	0
Carolina Wren	75	24	1
Northern Mockingbird	75	18	1
Great-tailed Grackle	71	15	9
House Sparrow	59	13	0
Black-crested Titmouse	44	18	0
White-eyed Vireo	41	16	0
Rock Pigeon	28	7	12
Great Egret	26	12	20
Mourning Dove	25	16	6
Neotropic Cormorant	23	6	3
Brown-headed Cowbird	19	14	0
Cattle Egret	17	6	15
Painted Bunting	17	11	0
Red-winged Blackbird	16	6	0
Summer Tanager	16	10	0
Golden-fronted Woodpecker	14	11	0
Red-shouldered Hawk	14	9	0
Barn Swallow	12	8	0
Blue Jay	12	9	0
Chimney Swift	12	6	0
House Finch	12	9	0
Yellow-billed Cuckoo	12	10	0
Ladder-backed Woodpecker	11	7	0
Olive Sparrow	10	5	0
Snowy Egret	10	5	0
European Starling	9	5	1
American Crow	7	4	0
Great Crested Flycatcher	7	5	0
Blue Grosbeak	5	4	0
Brown-crested Flycatcher	5	5	0

Species	Total Individuals	Distinct Points	Total Flyovers
Turkey Vulture	5	2	0

Table 1. Continued.

Species	Total Individuals	Distinct Points	Total Flyovers
Black-bellied Whistling-Duck	4	4	0
Black-chinned Hummingbird	4	3	0
Greater Roadrunner	4	4	0
Purple Martin	4	2	0
Verdin	4	2	0
Wild Turkey	4	3	0
Bullock's Oriole	3	2	0
Eastern Wood-Pewee	3	3	0
Inca Dove	3	2	0
Lesser Goldfinch	3	3	0
Mallard	3	2	0
Red-tailed Hawk	3	3	0
Scissor-tailed Flycatcher	3	3	0
Western Kingbird	3	3	0
Yellow-crowned Night-Heron	3	3	0
Barred Owl	2	1	0
Black-crowned Night-Heron	2	1	0
Carolina Chickadee	2	2	0
Couch's Kingbird	2	2	0
Eastern Phoebe	2	2	0
Eurasian Collared-Dove	2	2	0
Black Vulture	1	1	0
Blue-headed Vireo	1	1	0
Cactus Wren	1	1	0
Crested Caracara	1	1	0
Dickcissel	1	1	0
Downy Woodpecker	1	1	0
Great Blue Heron	1	1	0
Grenada Dove	1	1	0
Indigo Bunting	1	1	0
Killdeer	1	1	0
Least Flycatcher	1	1	0
Little Blue Heron	1	1	1
Long-billed Thrasher	1	1	0
Magnolia Warbler	1	1	0
Northern Bobwhite	1	1	0
Spotted Sandpiper	1	1	0
Swainson's Thrush	1	1	0
Willow Flycatcher	1	1	0

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Appendix A

Example original field sheet

1052

SAAN_BB DATA_ScULLY_20140525-8

10-min Point Count
 (record time in distance column as:
 0 = 0-1 min, 1 = 1-2 min, 2 = 2-3 min, 3 = 3-4 min, 4 = 4-5 min, 5 = 5-6 min, 6 = 6-7 min, 7 = 7-8 min, 8 = 8-9 min, 9 = 9-10 min)

Gulf Coast Network, National Park Service

TX	SAAN	2	73	2	8	2014-05-25	ScULLY	08:31
State	Park	Wind	Temp °F	Sky	Point #	Date (yyyy-mm-dd)	Observer	Time

Species	0 – 25 m	25 – 50 m	50 – 100 m	>100 m	Flyovers
NOCA		0			
NOCA			0		
NOCA			0		
BCTI			0		
NOCA			0		
CHSW		0			
GFWO			1		
BCTI				2	
WWDO ₈					2
GFWO				2	
HOFI			3		
CARW	3				
BHCO	3				
BHCO	4				
WEVI			5		
BLJA				5	
BAR.S		6			
BCTI		6			

Noise level 2 (0 = normal-low, 1 = moderate, 2 = high)

Comments: _____

- SOP-GULN-02, form #2, December 2009 -

Appendix B

Table of breeding bird data collected during 2014 season

Appendix B. Table of breeding bird data collected during the 2014 season.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
14	SAAN01	6/1/14	7:52	8:02	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	0	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Verdin	<i>Auriparus flaviceps</i>	50 to 100	0	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	White-eyed Vireo	<i>Vireo griseus</i>	25 to 50	0	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	1	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	1	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	1	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	2	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	3	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Ladder-backed Woodpecker	<i>Picoides scalaris</i>	50 to 100	3	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	3	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	>100	4	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	4	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	2	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	6	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	7	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	50 to 100	7	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	8	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Mourning Dove	<i>Zenaida macroura</i>	>100	8	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	25 to 50	9	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	50 to 100	9	Scully, Mike
	SAAN01	6/1/14	7:52	8:02	1	Verdin	<i>Auriparus flaviceps</i>	<25	9	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Summer Tanager	<i>Piranga rubra</i>	>100	0	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	0	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Greater Roadrunner	<i>Geococcyx californianus</i>	>100	0	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	0	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	0	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	50 to 100	0	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Painted Bunting	<i>Passerina ciris</i>	>100	0	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	0	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
15	SAAN02	6/1/14	8:24	8:34	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	1	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	1	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	1	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	2	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Wild Turkey	<i>Meleagris gallopavo</i>	50 to 100	2	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Lesser Goldfinch	<i>Spinus psaltria</i>	50 to 100	3	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	50 to 100	4	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	5	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	5	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	5	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	White-eyed Vireo	<i>Vireo griseus</i>	>100	5	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	5	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Summer Tanager	<i>Piranga rubra</i>	>100	5	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	2	White-eyed Vireo	<i>Vireo griseus</i>	>100	5	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	7	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Summer Tanager	<i>Piranga rubra</i>	>100	8	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Painted Bunting	<i>Passerina ciris</i>	>100	9	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	50 to 100	9	Scully, Mike
	SAAN02	6/1/14	8:24	8:34	1	Painted Bunting	<i>Passerina ciris</i>	<25	9	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	0	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	0	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	1	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	1	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	2	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	2	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	3	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	White-eyed Vireo	<i>Vireo griseus</i>	>100	3	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Summer Tanager	<i>Piranga rubra</i>	50 to 100	3	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	50 to 100	4	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	25 to 50	5	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	5	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	6	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	50 to 100	6	Scully, Mike

Appendix B. Continued.

16	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
	SAAN03	6/1/14	9:12	9:22	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	7	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	7	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	8	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	9	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	50 to 100	9	Scully, Mike
	SAAN03	6/1/14	9:12	9:22	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	9	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Wild Turkey	<i>Meleagris gallopavo</i>	>100	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	White-eyed Vireo	<i>Vireo griseus</i>	>100	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	25 to 50	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	25 to 50	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Verdin	<i>Auriparus flaviceps</i>	50 to 100	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Grenada Dove	<i>Leptotila wellsi</i>	50 to 100	0	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	1	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	1	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	1	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	American Crow	<i>Corvus brachyrhynchos</i>	>100	2	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	2	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Blue Grosbeak	<i>Passerina caerulea</i>	>100	2	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	3	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	3	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	3	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	3	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Verdin	<i>Auriparus flaviceps</i>	50 to 100	3	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	4	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	>100	5	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	White-eyed Vireo	<i>Vireo griseus</i>	>100	6	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	6	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	7	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	American Crow	<i>Corvus brachyrhynchos</i>	>100	7	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	8	Scully, Mike

Appendix B. Continued.

17	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
	SAAN04	6/1/14	7:36	7:46	1	Blue Grosbeak	<i>Passerina caerulea</i>	>100	8	Scully, Mike
	SAAN04	6/1/14	7:36	7:46	1	Red-tailed Hawk	<i>Buteo jamaicensis</i>	50 to 100	9	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Ladder-backed Woodpecker	<i>Picoides scalaris</i>	25 to 50	0	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Summer Tanager	<i>Piranga rubra</i>	25 to 50	0	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	0	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	White-eyed Vireo	<i>Vireo griseus</i>	25 to 50	0	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	White-eyed Vireo	<i>Vireo griseus</i>	>100	1	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	1	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	1	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	2	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	2	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	2	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	3	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	4	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	White-eyed Vireo	<i>Vireo griseus</i>	25 to 50	5	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Ladder-backed Woodpecker	<i>Picoides scalaris</i>	25 to 50	5	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	7	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Black-chinned Hummingbird	<i>Archilochus alexandri</i>	<25	7	Scully, Mike
	SAAN05	6/1/14	8:40	8:50	1	Carolina Chickadee	<i>Poecile carolinensis</i>	<25	9	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	0	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	0	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	1	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	1	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	2	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	2	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	3	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	White-eyed Vireo	<i>Vireo griseus</i>	>100	3	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Summer Tanager	<i>Piranga rubra</i>	50 to 100	3	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	50 to 100	4	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	50 to 100	5	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	5	Scully, Mike

Appendix B. Continued.

18	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
	SAAN06	6/1/14	9:21	9:31	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	6	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	50 to 100	6	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	7	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	7	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	8	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	9	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Olive Sparrow	<i>Arremonops rufivirgatus</i>	50 to 100	9	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	9	Scully, Mike
	SAAN06	6/1/14	9:21	9:31	1	Northern Bobwhite	<i>Colinus virginianus</i>	50 to 100	9	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Summer Tanager	<i>Piranga rubra</i>	25 to 50	0	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	0	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	0	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	0	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Summer Tanager	<i>Piranga rubra</i>	50 to 100	0	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	0	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<1,000	0	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	32	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	1	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	1	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Brown-headed Cowbird	<i>Molothrus ater</i>	25 to 50	1	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Summer Tanager	<i>Piranga rubra</i>	>100	1	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	>100	1	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	1	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	5	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<1,000	2	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	2	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	4	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	3	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	3	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	3	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	3	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	>100	3	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	>100	4	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Great Egret	<i>Ardea alba</i>	<1,000	4	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	>100	4	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	5	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
19	SAAN07	5/24/14	8:04	8:14	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	5	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	>100	6	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	6	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	7	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	2	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	7	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	4	Rock Pigeon	<i>Columba livia</i>	<1,000	7	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	European Starling	<i>Sturnus vulgaris</i>	<1,000	8	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Ladder-backed Woodpecker	<i>Picoides scalaris</i>	>100	9	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	2	Cattle Egret	<i>Bubulcus ibis</i>	<1,000	9	Scully, Mike
	SAAN07	5/24/14	8:04	8:14	1	Brown-headed Cowbird	<i>Molothrus ater</i>	<25	9	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	3	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	0	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Chimney Swift	<i>Chaetura pelagica</i>	25 to 50	0	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	50 to 100	1	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	1	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	8	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	2	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	>100	2	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	House Finch	<i>Carpodacus mexicanus</i>	50 to 100	3	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	3	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Brown-headed Cowbird	<i>Molothrus ater</i>	<25	3	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Brown-headed Cowbird	<i>Molothrus ater</i>	<25	4	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	5	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Blue Jay	<i>Cyanocitta cristata</i>	>100	5	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Barn Swallow	<i>Hirundo rustica</i>	25 to 50	6	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	25 to 50	6	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	7	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	7	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	>100	7	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	8	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Barn Swallow	<i>Hirundo rustica</i>	<25	9	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Summer Tanager	<i>Piranga rubra</i>	25 to 50	9	Scully, Mike
	SAAN08	5/25/14	8:31	8:41	1	Chimney Swift	<i>Chaetura pelagica</i>	<25	9	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	0	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
20	SAAN09	5/26/14	8:01	8:11	1	Mourning Dove	<i>Zenaida macroura</i>	<25	0	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	2	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	3	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	0	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	0	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	1	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Great Egret	<i>Ardea alba</i>	<1,000	1	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	50 to 100	2	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	2	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	>100	3	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	5	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	3	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Great Egret	<i>Ardea alba</i>	<1,000	4	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	4	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	>100	5	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	5	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	3	House Finch	<i>Carpodacus mexicanus</i>	50 to 100	6	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Indigo Bunting	<i>Passerina cyanea</i>	50 to 100	6	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Killdeer	<i>Charadrius vociferus</i>	25 to 50	7	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	7	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Mourning Dove	<i>Zenaida macroura</i>	>100	8	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	8	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Barn Swallow	<i>Hirundo rustica</i>	<25	8	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Snowy Egret	<i>Egretta thula</i>	25 to 50	8	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Bullock's Oriole	<i>Icterus bullockii</i>	>100	8	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	3	White-winged Dove	<i>Zenaida asiatica</i>	>100	9	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	50 to 100	9	Scully, Mike
	SAAN09	5/26/14	8:01	8:11	4	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	9	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Great Egret	<i>Ardea alba</i>	<1,000	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	50 to 100	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Ladder-backed Woodpecker	<i>Picoides scalaris</i>	50 to 100	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Blue-headed Vireo	<i>Vireo solitarius</i>	50 to 100	0	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
21	SAAN10	5/24/14	8:34	8:44	1	White-eyed Vireo	<i>Vireo griseus</i>	25 to 50	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	2	House Finch	<i>Carpodacus mexicanus</i>	<25	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	American Crow	<i>Corvus brachyrhynchos</i>	>100	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<1,000	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Western Kingbird	<i>Tyrannus verticalis</i>	50 to 100	0	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Blue Grosbeak	<i>Passerina caerulea</i>	25 to 50	1	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	3	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	50 to 100	1	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	>100	1	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	1	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	1	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	1	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	American Crow	<i>Corvus brachyrhynchos</i>	>100	1	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	2	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	2	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	2	Cattle Egret	<i>Bubulcus ibis</i>	<1,000	3	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Brown-headed Cowbird	<i>Molothrus ater</i>	<25	3	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	4	Cattle Egret	<i>Bubulcus ibis</i>	<1,000	3	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	3	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Purple Martin	<i>Progne subis</i>	50 to 100	5	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	4	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	2	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	5	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	6	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	6	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	20	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	7	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Great Egret	<i>Ardea alba</i>	<1,000	9	Scully, Mike
	SAAN10	5/24/14	8:34	8:44	1	Brown-headed Cowbird	<i>Molothrus ater</i>	25 to 50	9	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Snowy Egret	<i>Egretta thula</i>	<25	0	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	50 to 100	0	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	50 to 100	0	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	200	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	>100	0	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	25	Cave Swallow	<i>Petrochelidon fulva</i>	>100	0	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Great Egret	<i>Ardea alba</i>	<1,000	0	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Great Egret	<i>Ardea alba</i>	50 to 100	1	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	1	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
22	SAAN21	5/26/14	9:50	10:00	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	1	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	<1,000	1	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	2	Great Egret	<i>Ardea alba</i>	<1,000	1	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	10	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	25 to 50	3	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	50 to 100	3	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	American Crow	<i>Corvus brachyrhynchos</i>	>100	3	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	3	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Barn Swallow	<i>Hirundo rustica</i>	25 to 50	3	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	4	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	2	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	25 to 50	4	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	4	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Great Blue Heron	<i>Ardea herodias</i>	50 to 100	5	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	2	White-winged Dove	<i>Zenaida asiatica</i>	>100	5	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	50 to 100	5	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Great Egret	<i>Ardea alba</i>	50 to 100	5	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	American Crow	<i>Corvus brachyrhynchos</i>	>100	5	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	2	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	25 to 50	6	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	34	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	7	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Snowy Egret	<i>Egretta thula</i>	50 to 100	7	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Scissor-tailed Flycatcher	<i>Tyrannus forficatus</i>	25 to 50	8	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	9	Scully, Mike
	SAAN21	5/26/14	9:50	10:00	1	Swainson's Thrush	<i>Catharus ustulatus</i>	<25	9	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Summer Tanager	<i>Piranga rubra</i>	50 to 100	0	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	0	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	0	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	0	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	0	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Painted Bunting	<i>Passerina ciris</i>	>100	1	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	50 to 100	1	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	1	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	3	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	50 to 100	1	Scully, Mike
	SAAN22	5/24/14	7:48	7:58	1	House Finch	<i>Carpodacus mexicanus</i>	25 to 50	1	Scully, Mike

Appendix B. Continued.

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Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN22	5/24/14	7:48	7:58	2	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	1	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	White-winged Dove	<i>Zenaida asiatica</i>	25 to 50	2	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	2	Scully, Mike
SAAN22	5/24/14	7:48	7:58	2	Black-chinned Hummingbird	<i>Archilochus alexandri</i>	<25	2	Scully, Mike
SAAN22	5/24/14	7:48	7:58	3	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	2	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	White-eyed Vireo	<i>Vireo griseus</i>	25 to 50	2	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	4	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	4	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Brown-headed Cowbird	<i>Molothrus ater</i>	<25	5	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	50 to 100	5	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	5	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Summer Tanager	<i>Piranga rubra</i>	>100	6	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	<25	7	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Scissor-tailed Flycatcher	<i>Tyrannus forficatus</i>	50 to 100	7	Scully, Mike
SAAN22	5/24/14	7:48	7:58	2	Red-shouldered Hawk	<i>Buteo lineatus</i>	50 to 100	8	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Rock Pigeon	<i>Columba livia</i>	<1,000	8	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	8	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	9	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	9	Scully, Mike
SAAN22	5/24/14	7:48	7:58	4	Mourning Dove	<i>Zenaida macroura</i>	<1,000	9	Scully, Mike
SAAN22	5/24/14	7:48	7:58	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	6	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Brown-headed Cowbird	<i>Molothrus ater</i>	25 to 50	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Yellow-crowned Night-Heron	<i>Nyctanassa violacea</i>	50 to 100	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	>100	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	7	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	2	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	0	Scully, Mike
SAAN23	5/26/14	10:07	10:17	2	Great Egret	<i>Ardea alba</i>	<1,000	1	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	50 to 100	1	Scully, Mike
SAAN23	5/26/14	10:07	10:17	5	Cattle Egret	<i>Bubulcus ibis</i>	<1,000	1	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Snowy Egret	<i>Egretta thula</i>	>100	2	Scully, Mike

Appendix B. Continued.

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Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN23	5/26/14	10:07	10:17	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	25 to 50	2	Scully, Mike
SAAN23	5/26/14	10:07	10:17	2	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	2	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	American Crow	<i>Corvus brachyrhynchos</i>	50 to 100	2	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	2	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	>100	2	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	25 to 50	2	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	25 to 50	2	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	3	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	3	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	>100	3	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	<25	3	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Black-chinned Hummingbird	<i>Archilochus alexandri</i>	<25	4	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Cave Swallow	<i>Petrochelidon fulva</i>	<25	4	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	5	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	6	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Snowy Egret	<i>Egretta thula</i>	>100	7	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	>100	7	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	50 to 100	7	Scully, Mike
SAAN23	5/26/14	10:07	10:17	1	Chimney Swift	<i>Chaetura pelagica</i>	50 to 100	9	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Greater Roadrunner	<i>Geococcyx californianus</i>	50 to 100	0	Scully, Mike
SAAN24	5/25/14	9:36	9:46	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	0	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Brown-crested Flycatcher	<i>Myiarchus tyrannulus</i>	<25	0	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	0	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	0	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	1	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	1	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	2	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	25 to 50	2	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Red-tailed Hawk	<i>Buteo jamaicensis</i>	50 to 100	2	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	3	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	3	Scully, Mike
SAAN24	5/25/14	9:36	9:46	5	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	3	Scully, Mike
SAAN24	5/25/14	9:36	9:46	1	Blue Jay	<i>Cyanocitta cristata</i>	25 to 50	3	Scully, Mike

Appendix B. Continued.

25	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
	SAAN24	5/25/14	9:36	9:46	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	3	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	3	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	4	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	5	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Mourning Dove	<i>Zenaida macroura</i>	<1,000	5	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	25 to 50	5	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Barn Swallow	<i>Hirundo rustica</i>	25 to 50	6	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	7	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	2	Chimney Swift	<i>Chaetura pelagica</i>	50 to 100	7	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Black Vulture	<i>Coragyps atratus</i>	<25	8	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Cave Swallow	<i>Petrochelidon fulva</i>	<25	8	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	>100	8	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	8	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	25 to 50	8	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	9	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	9	Scully, Mike
	SAAN24	5/25/14	9:36	9:46	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	9	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Red-tailed Hawk	<i>Buteo jamaicensis</i>	25 to 50	0	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Blue Jay	<i>Cyanocitta cristata</i>	50 to 100	0	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	3	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	0	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	0	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	3	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	1	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	1	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	25 to 50	1	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	1	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Northern Mockingbird	<i>Mimus polyglottos</i>	<1,000	2	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	2	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	2	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	3	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	3	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	3	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Yellow-crowned Night-Heron	<i>Nyctanassa violacea</i>	25 to 50	3	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	50 to 100	4	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Greater Roadrunner	<i>Geococcyx californianus</i>	>100	4	Scully, Mike

Appendix B. Continued.

26	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
	SAAN25	5/25/14	9:24	9:34	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	5	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	5	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	6	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Blue Jay	<i>Cyanocitta cristata</i>	50 to 100	6	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	>100	6	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	6	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	50 to 100	8	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	9	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	9	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Barred Owl	<i>Strix varia</i>	50 to 100	0	Scully, Mike
	SAAN25	5/25/14	9:24	9:34	1	Barred Owl	<i>Strix varia</i>	>100	0	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Yellow-crowned Night-Heron	<i>Nyctanassa violacea</i>	25 to 50	0	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	2	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	<25	0	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	0	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	3	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	0	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Cactus Wren	<i>Campylorhynchus brunneicapillus</i>	50 to 100	2	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	>100	2	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	2	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	3	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	2	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	4	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	4	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	4	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	House Sparrow	<i>Passer domesticus</i>	50 to 100	6	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	6	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	6	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Least Flycatcher	<i>Empidonax minimus</i>	25 to 50	6	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	23	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	7	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	7	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	8	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	7	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	8	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	7	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	8	Scully, Mike
	SAAN26	5/25/14	9:07	9:17	1	Blue Jay	<i>Cyanocitta cristata</i>	>100	8	Scully, Mike

Appendix B. Continued.

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Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN26	5/25/14	9:07	9:17	2	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	8	Scully, Mike
SAAN26	5/25/14	9:07	9:17	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	9	Scully, Mike
SAAN26	5/25/14	9:07	9:17	1	House Sparrow	<i>Passer domesticus</i>	50 to 100	9	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Eastern Wood-Pewee	<i>Contopus virens</i>	<25	0	Scully, Mike
SAAN27	5/26/14	7:46	7:56	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	0	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	0	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Great Egret	<i>Ardea alba</i>	<25	1	Scully, Mike
SAAN27	5/26/14	7:46	7:56	2	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	1	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	1	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	1	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	2	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Greater Roadrunner	<i>Geococcyx californianus</i>	50 to 100	2	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Great Egret	<i>Ardea alba</i>	<25	2	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	3	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	3	Scully, Mike
SAAN27	5/26/14	7:46	7:56	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	3	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Long-billed Thrasher	<i>Toxostoma longirostre</i>	50 to 100	3	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	3	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	4	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	4	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	50 to 100	5	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Downy Woodpecker	<i>Picoides pubescens</i>	50 to 100	7	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	8	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	9	Scully, Mike
SAAN27	5/26/14	7:46	7:56	1	Lesser Goldfinch	<i>Spinus psaltria</i>	50 to 100	9	Scully, Mike
SAAN28	5/24/14	7:30	7:40	2	Red-shouldered Hawk	<i>Buteo lineatus</i>	<25	0	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Mallard	<i>Anas platyrhynchos</i>	25 to 50	0	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	<1,000	0	Scully, Mike
SAAN28	5/24/14	7:30	7:40	2	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	0	Scully, Mike
SAAN28	5/24/14	7:30	7:40	2	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	0	Scully, Mike

Appendix B. Continued.

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Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN28	5/24/14	7:30	7:40	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	0	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Brown-crested Flycatcher	<i>Myiarchus tyrannulus</i>	50 to 100	0	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	1	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Cave Swallow	<i>Petrochelidon fulva</i>	25 to 50	1	Scully, Mike
SAAN28	5/24/14	7:30	7:40	2	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	1	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	House Sparrow	<i>Passer domesticus</i>	<25	2	Scully, Mike
SAAN28	5/24/14	7:30	7:40	10	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	2	Scully, Mike
SAAN28	5/24/14	7:30	7:40	3	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	2	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	3	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	4	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Eastern Phoebe	<i>Sayornis phoebe</i>	25 to 50	4	Scully, Mike
SAAN28	5/24/14	7:30	7:40	2	Rock Pigeon	<i>Columba livia</i>	<1,000	5	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Barn Swallow	<i>Hirundo rustica</i>	<25	5	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Black-bellied Whistling-Duck	<i>Dendrocygna autumnalis</i>	50 to 100	6	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Summer Tanager	<i>Piranga rubra</i>	>100	6	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	6	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	>100	7	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	8	Scully, Mike
SAAN28	5/24/14	7:30	7:40	2	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	8	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	8	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	9	Scully, Mike
SAAN28	5/24/14	7:30	7:40	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	25 to 50	9	Scully, Mike
SAAN28	5/24/14	7:30	7:40	2	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	9	Scully, Mike
SAAN28	5/24/14	7:30	7:40	7	House Sparrow	<i>Passer domesticus</i>	50 to 100	9	Scully, Mike
SAAN29	5/24/14	9:46	9:56	10	House Sparrow	<i>Passer domesticus</i>	<25	0	Scully, Mike
SAAN29	5/24/14	9:46	9:56	10	Rock Pigeon	<i>Columba livia</i>	<25	0	Scully, Mike
SAAN29	5/24/14	9:46	9:56	5	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	>100	0	Scully, Mike
SAAN29	5/24/14	9:46	9:56	1	Eastern Phoebe	<i>Sayornis phoebe</i>	25 to 50	0	Scully, Mike
SAAN29	5/24/14	9:46	9:56	3	Snowy Egret	<i>Egretta thula</i>	50 to 100	0	Scully, Mike
SAAN29	5/24/14	9:46	9:56	2	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	50 to 100	0	Scully, Mike
SAAN29	5/24/14	9:46	9:56	10	Cave Swallow	<i>Petrochelidon fulva</i>	<25	0	Scully, Mike
SAAN29	5/24/14	9:46	9:56	35	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	<25	0	Scully, Mike
SAAN29	5/24/14	9:46	9:56	3	House Sparrow	<i>Passer domesticus</i>	25 to 50	1	Scully, Mike
SAAN29	5/24/14	9:46	9:56	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	<25	2	Scully, Mike

Appendix B. Continued.

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Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN29	5/24/14	9:46	9:56	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	>100	2	Scully, Mike
SAAN29	5/24/14	9:46	9:56	1	Great Egret	<i>Ardea alba</i>	50 to 100	2	Scully, Mike
SAAN29	5/24/14	9:46	9:56	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	50 to 100	2	Scully, Mike
SAAN29	5/24/14	9:46	9:56	3	Rock Pigeon	<i>Columba livia</i>	50 to 100	2	Scully, Mike
SAAN29	5/24/14	9:46	9:56	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	25 to 50	3	Scully, Mike
SAAN29	5/24/14	9:46	9:56	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	4	Scully, Mike
SAAN29	5/24/14	9:46	9:56	1	Western Kingbird	<i>Tyrannus verticalis</i>	<25	8	Scully, Mike
SAAN29	5/24/14	9:46	9:56	1	Black-bellied Whistling-Duck	<i>Dendrocygna autumnalis</i>	<25	9	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	0	Scully, Mike
SAAN30	5/24/14	9:10	9:20	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	0	Scully, Mike
SAAN30	5/24/14	9:10	9:20	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	1	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	White-winged Dove	<i>Zenaida asiatica</i>	25 to 50	1	Scully, Mike
SAAN30	5/24/14	9:10	9:20	2	Mourning Dove	<i>Zenaida macroura</i>	25 to 50	2	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Brown-crested Flycatcher	<i>Myiarchus tyrannulus</i>	25 to 50	2	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	>100	2	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	2	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	25 to 50	3	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	3	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Painted Bunting	<i>Passerina ciris</i>	25 to 50	4	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Brown-headed Cowbird	<i>Molothrus ater</i>	25 to 50	4	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	4	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	4	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	4	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Willow Flycatcher	<i>Empidonax traillii</i>	25 to 50	4	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Eastern Wood-Pewee	<i>Contopus virens</i>	25 to 50	5	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	7	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	8	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Cattle Egret	<i>Bubulcus ibis</i>	<1,000	9	Scully, Mike
SAAN30	5/24/14	9:10	9:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	9	Scully, Mike
SAAN31	5/31/14	8:49	8:59	1	Northern Mockingbird	<i>Mimus polyglottos</i>	<25	0	Scully, Mike
SAAN31	5/31/14	8:49	8:59	2	Mourning Dove	<i>Zenaida macroura</i>	<25	0	Scully, Mike
SAAN31	5/31/14	8:49	8:59	1	Barn Swallow	<i>Hirundo rustica</i>	25 to 50	0	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
30	SAAN31	5/31/14	8:49	8:59	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	2	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	6	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	2	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	House Finch	<i>Carpodacus mexicanus</i>	50 to 100	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	0	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	1	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	1	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	1	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	2	House Sparrow	<i>Passer domesticus</i>	25 to 50	2	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	3	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	3	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	3	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	White-winged Dove	<i>Zenaida asiatica</i>	25 to 50	4	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Lesser Goldfinch	<i>Spinus psaltria</i>	50 to 100	4	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	5	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	3	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	5	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	5	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	>100	5	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	6	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Chimney Swift	<i>Chaetura pelagica</i>	25 to 50	6	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	House Sparrow	<i>Passer domesticus</i>	50 to 100	6	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Barn Swallow	<i>Hirundo rustica</i>	50 to 100	7	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	8	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Blue Jay	<i>Cyanocitta cristata</i>	>100	8	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	8	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	8	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	30	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	9	Scully, Mike
	SAAN31	5/31/14	8:49	8:59	1	Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	25 to 50	9	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Couch's Kingbird	<i>Tyrannus couchii</i>	50 to 100	0	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	200	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	>100	0	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
31	SAAN32	5/26/14	9:05	9:15	50	Cave Swallow	<i>Petrochelidon fulva</i>	>100	0	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Little Blue Heron	<i>Egretta caerulea</i>	<1,000	0	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Blue Jay	<i>Cyanocitta cristata</i>	50 to 100	0	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	2	Turkey Vulture	<i>Cathartes aura</i>	>100	0	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	5	House Sparrow	<i>Passer domesticus</i>	25 to 50	0	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	2	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	50 to 100	0	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Great Egret	<i>Ardea alba</i>	<1,000	1	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<1,000	1	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	1	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	European Starling	<i>Sturnus vulgaris</i>	25 to 50	1	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	2	Ladder-backed Woodpecker	<i>Picoides scalaris</i>	50 to 100	2	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	2	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	25 to 50	2	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Great Egret	<i>Ardea alba</i>	<1,000	2	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Blue Grosbeak	<i>Passerina caerulea</i>	25 to 50	2	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	<25	3	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	50 to 100	4	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	4	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	5	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	2	House Sparrow	<i>Passer domesticus</i>	50 to 100	5	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	<25	5	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	House Finch	<i>Carpodacus mexicanus</i>	50 to 100	6	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	6	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	2	House Sparrow	<i>Passer domesticus</i>	<25	7	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Mourning Dove	<i>Zenaida macroura</i>	<1,000	7	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	7	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	7	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	10	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	<25	8	Scully, Mike
	SAAN32	5/26/14	9:05	9:15	1	Dickcissel	<i>Spiza americana</i>	50 to 100	9	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Mallard	<i>Anas platyrhynchos</i>	>100	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	50 to 100	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	2	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	<25	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	3	Turkey Vulture	<i>Cathartes aura</i>	>100	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Spotted Sandpiper	<i>Actitis macularius</i>	50 to 100	0	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
32	SAAN33	5/26/14	9:25	9:35	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	>100	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	House Sparrow	<i>Passer domesticus</i>	50 to 100	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	3	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	<25	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	50 to 100	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	30	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	0	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	1	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	House Finch	<i>Carpodacus mexicanus</i>	<25	1	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	4	Great Egret	<i>Ardea alba</i>	<1,000	2	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	2	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	2	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	2	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Mallard	<i>Anas platyrhynchos</i>	>100	3	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	3	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	50 to 100	4	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	>100	4	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	3	Ladder-backed Woodpecker	<i>Picoides scalaris</i>	>100	6	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	6	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	2	Snowy Egret	<i>Egretta thula</i>	>100	6	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	25 to 50	6	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	2	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	25 to 50	7	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Black-bellied Whistling-Duck	<i>Dendrocygna autumnalis</i>	50 to 100	7	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	2	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	25 to 50	8	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	9	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Cattle Egret	<i>Bubulcus ibis</i>	>100	9	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	>100	9	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Great Egret	<i>Ardea alba</i>	>100	9	Scully, Mike
	SAAN33	5/26/14	9:25	9:35	1	Barn Swallow	<i>Hirundo rustica</i>	25 to 50	9	Scully, Mike
	SAAN34	5/25/14	10:10	10:20	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	0	Scully, Mike
	SAAN34	5/25/14	10:10	10:20	1	Brown-crested Flycatcher	<i>Myiarchus tyrannulus</i>	<25	0	Scully, Mike
	SAAN34	5/25/14	10:10	10:20	1	Summer Tanager	<i>Piranga rubra</i>	>100	0	Scully, Mike
	SAAN34	5/25/14	10:10	10:20	1	Blue Grosbeak	<i>Passerina caerulea</i>	25 to 50	0	Scully, Mike
	SAAN34	5/25/14	10:10	10:20	1	Cave Swallow	<i>Petrochelidon fulva</i>	<25	0	Scully, Mike
	SAAN34	5/25/14	10:10	10:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike

Appendix B. Continued.

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Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN34	5/25/14	10:10	10:20	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	0	Scully, Mike
SAAN34	5/25/14	10:10	10:20	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	1	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	1	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	1	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	2	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	3	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	4	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	<25	4	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Brown-headed Cowbird	<i>Molothrus ater</i>	<25	5	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	5	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	6	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	6	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	7	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	7	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	8	Scully, Mike
SAAN34	5/25/14	10:10	10:20	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	9	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Eastern Wood-Pewee	<i>Contopus virens</i>	<25	0	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	White-eyed Vireo	<i>Vireo griseus</i>	<25	0	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	<25	0	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Carolina Chickadee	<i>Poecile carolinensis</i>	<25	0	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Red-shouldered Hawk	<i>Buteo lineatus</i>	>100	1	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	1	Scully, Mike
SAAN35	5/25/14	8:50	9:00	2	Bullock's Oriole	<i>Icterus bullockii</i>	<25	2	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Brown-headed Cowbird	<i>Molothrus ater</i>	50 to 100	2	Scully, Mike
SAAN35	5/25/14	8:50	9:00	2	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	<25	3	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	4	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Blue Jay	<i>Cyanocitta cristata</i>	50 to 100	5	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	6	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Brown-crested Flycatcher	<i>Myiarchus tyrannulus</i>	50 to 100	8	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Black-bellied Whistling-Duck	<i>Dendrocygna autumnalis</i>	>100	8	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	9	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	9	Scully, Mike
SAAN35	5/25/14	8:50	9:00	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	9	Scully, Mike
SAAN36	5/24/14	7:15	7:25	3	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	0	Scully, Mike

Appendix B. Continued.

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Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN36	5/24/14	7:15	7:25	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	0	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	25 to 50	0	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	0	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	>100	0	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	1	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	House Finch	<i>Carpodacus mexicanus</i>	<25	1	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	1	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Painted Bunting	<i>Passerina ciris</i>	50 to 100	1	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	2	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	>100	2	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	3	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	3	Scully, Mike
SAAN36	5/24/14	7:15	7:25	4	Northern Cardinal	<i>Cardinalis cardinalis</i>	>100	3	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	3	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	4	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	4	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Summer Tanager	<i>Piranga rubra</i>	25 to 50	4	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	5	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Summer Tanager	<i>Piranga rubra</i>	50 to 100	7	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	50 to 100	8	Scully, Mike
SAAN36	5/24/14	7:15	7:25	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	50 to 100	8	Scully, Mike
SAAN36	5/24/14	7:15	7:25	2	Rock Pigeon	<i>Columba livia</i>	<1,000	9	Scully, Mike
SAAN37	5/26/14	8:24	8:34	2	Wild Turkey	<i>Meleagris gallopavo</i>	25 to 50	0	Scully, Mike
SAAN37	5/26/14	8:24	8:34	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	25 to 50	0	Scully, Mike
SAAN37	5/26/14	8:24	8:34	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	0	Scully, Mike
SAAN37	5/26/14	8:24	8:34	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
SAAN37	5/26/14	8:24	8:34	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	50 to 100	0	Scully, Mike
SAAN37	5/26/14	8:24	8:34	1	Northern Mockingbird	<i>Mimus polyglottos</i>	<25	0	Scully, Mike
SAAN37	5/26/14	8:24	8:34	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	50 to 100	0	Scully, Mike
SAAN37	5/26/14	8:24	8:34	1	Northern Mockingbird	<i>Mimus polyglottos</i>	<25	1	Scully, Mike
SAAN37	5/26/14	8:24	8:34	1	Mourning Dove	<i>Zenaida macroura</i>	50 to 100	1	Scully, Mike
SAAN37	5/26/14	8:24	8:34	5	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	1	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
35	SAAN37	5/26/14	8:24	8:34	1	White-eyed Vireo	<i>Vireo griseus</i>	50 to 100	1	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	2	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	1	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	2	European Starling	<i>Sturnus vulgaris</i>	25 to 50	3	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	3	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<1,000	3	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	2	Great Egret	<i>Ardea alba</i>	<1,000	4	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	>100	4	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	5	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	White-winged Dove	<i>Zenaida asiatica</i>	25 to 50	5	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Western Kingbird	<i>Tyrannus verticalis</i>	50 to 100	5	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	5	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	2	Northern Cardinal	<i>Cardinalis cardinalis</i>	25 to 50	6	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Crested Caracara	<i>Caracara cheriway</i>	<25	6	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	>100	7	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Black-crested Titmouse	<i>Baeolophus atricristatus</i>	50 to 100	7	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	European Starling	<i>Sturnus vulgaris</i>	25 to 50	7	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	1	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	<25	8	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	2	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	9	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	5	White-winged Dove	<i>Zenaida asiatica</i>	25 to 50	9	Scully, Mike
	SAAN37	5/26/14	8:24	8:34	2	House Sparrow	<i>Passer domesticus</i>	<25	9	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	White-winged Dove	<i>Zenaida asiatica</i>	<25	0	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	0	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Great Egret	<i>Ardea alba</i>	<1,000	0	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	0	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	>100	0	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	2	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	1	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	1	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	>100	2	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	3	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Purple Martin	<i>Progne subis</i>	50 to 100	3	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	4	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	White-winged Dove	<i>Zenaida asiatica</i>	25 to 50	4	Scully, Mike

Appendix B. Continued.

	Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
36	SAAN38	5/24/14	8:55	9:05	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	5	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	5	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Scissor-tailed Flycatcher	<i>Tyrannus forficatus</i>	50 to 100	5	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	6	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	6	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Blue Jay	<i>Cyanocitta cristata</i>	50 to 100	6	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	7	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	7	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Purple Martin	<i>Progne subis</i>	50 to 100	7	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	8	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	4	Chimney Swift	<i>Chaetura pelagica</i>	>100	8	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	2	Blue Jay	<i>Cyanocitta cristata</i>	>100	9	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Ladder-backed Woodpecker	<i>Picoides scalaris</i>	25 to 50	9	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	House Sparrow	<i>Passer domesticus</i>	25 to 50	9	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Purple Martin	<i>Progne subis</i>	<25	9	Scully, Mike
	SAAN38	5/24/14	8:55	9:05	1	Chimney Swift	<i>Chaetura pelagica</i>	<25	9	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	25 to 50	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Carolina Wren	<i>Thryothorus ludovicianus</i>	>100	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Northern Mockingbird	<i>Mimus polyglottos</i>	<25	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	White-winged Dove	<i>Zenaida asiatica</i>	25 to 50	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	2	Rock Pigeon	<i>Columba livia</i>	<1,000	0	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	2	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	1	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Northern Mockingbird	<i>Mimus polyglottos</i>	<25	1	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	<25	1	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	1	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Magnolia Warbler	<i>Setophaga magnolia</i>	25 to 50	1	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	White-winged Dove	<i>Zenaida asiatica</i>	<25	2	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	2	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	2	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	3	Scully, Mike
	SAAN39	5/24/14	9:25	9:35	1	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	25 to 50	3	Scully, Mike

Appendix B. Continued.

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Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN39	5/24/14	9:25	9:35	1	European Starling	<i>Sturnus vulgaris</i>	25 to 50	3	Scully, Mike
SAAN39	5/24/14	9:25	9:35	2	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	25 to 50	4	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	Inca Dove	<i>Columbina inca</i>	<25	4	Scully, Mike
SAAN39	5/24/14	9:25	9:35	7	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	5	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	Cave Swallow	<i>Petrochelidon fulva</i>	25 to 50	5	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	5	Scully, Mike
SAAN39	5/24/14	9:25	9:35	2	European Starling	<i>Sturnus vulgaris</i>	25 to 50	5	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	5	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	Northern Cardinal	<i>Cardinalis cardinalis</i>	<25	5	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	Inca Dove	<i>Columbina inca</i>	<25	5	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	5	Scully, Mike
SAAN39	5/24/14	9:25	9:35	2	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	6	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	7	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<25	7	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	Rock Pigeon	<i>Columba livia</i>	<1,000	8	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	House Finch	<i>Carpodacus mexicanus</i>	<25	9	Scully, Mike
SAAN39	5/24/14	9:25	9:35	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	>100	9	Scully, Mike
SAAN40	5/24/14	10:04	10:14	3	Barn Swallow	<i>Hirundo rustica</i>	<25	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	White-winged Dove	<i>Zenaida asiatica</i>	<25	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	50 to 100	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	2	Cave Swallow	<i>Petrochelidon fulva</i>	25 to 50	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	<25	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Blue Jay	<i>Cyanocitta cristata</i>	50 to 100	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Couch's Kingbird	<i>Tyrannus couchii</i>	25 to 50	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	6	House Sparrow	<i>Passer domesticus</i>	50 to 100	0	Scully, Mike
SAAN40	5/24/14	10:04	10:14	2	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	1	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	<25	1	Scully, Mike
SAAN40	5/24/14	10:04	10:14	4	House Sparrow	<i>Passer domesticus</i>	25 to 50	1	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Rock Pigeon	<i>Columba livia</i>	50 to 100	1	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	25 to 50	1	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	2	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Great Egret	<i>Ardea alba</i>	<1,000	3	Scully, Mike

Appendix B. Continued.

Point	Date	Start Time	End Time	Count	Common Name	Scientific Name	Distance Bin	Time Bin	Researcher
SAAN40	5/24/14	10:04	10:14	1	Cattle Egret	<i>Bubulcus ibis</i>	<1,000	3	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Inca Dove	<i>Columbina inca</i>	<25	4	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	<1,000	5	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	5	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	White-winged Dove	<i>Zenaida asiatica</i>	25 to 50	5	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	<1,000	5	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Golden-fronted Woodpecker	<i>Melanerpes aurifrons</i>	>100	6	Scully, Mike
SAAN40	5/24/14	10:04	10:14	3	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	6	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Chimney Swift	<i>Chaetura pelagica</i>	50 to 100	8	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Northern Mockingbird	<i>Mimus polyglottos</i>	>100	8	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	White-winged Dove	<i>Zenaida asiatica</i>	50 to 100	8	Scully, Mike
SAAN40	5/24/14	10:04	10:14	2	Great-tailed Grackle	<i>Quiscalus mexicanus</i>	50 to 100	9	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	European Starling	<i>Sturnus vulgaris</i>	50 to 100	9	Scully, Mike
SAAN40	5/24/14	10:04	10:14	2	White-winged Dove	<i>Zenaida asiatica</i>	<1,000	9	Scully, Mike
SAAN40	5/24/14	10:04	10:14	2	Rock Pigeon	<i>Columba livia</i>	25 to 50	9	Scully, Mike
SAAN40	5/24/14	10:04	10:14	1	Cattle Egret	<i>Bubulcus ibis</i>	50 to 100	9	Scully, Mike

The Department of the Interior protects and manages the nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its special responsibilities to American Indians, Alaska Natives, and affiliated Island Communities.

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National Park Service
U.S. Department of the Interior



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