

INTRODUCTION

 Multiple reports have been published recently that indicate a drastic decline in bird populations over the last 50 years, including species common in Ohio.

 The purpose of this project was to document which bird species are breeding at the Huston-Brumbaugh Nature Center (HBNC) and identify any species that may be missing.

 The HBNC consists primarily of 230 acres of forests and fields and includes properties in Stark and Columbiana counties.

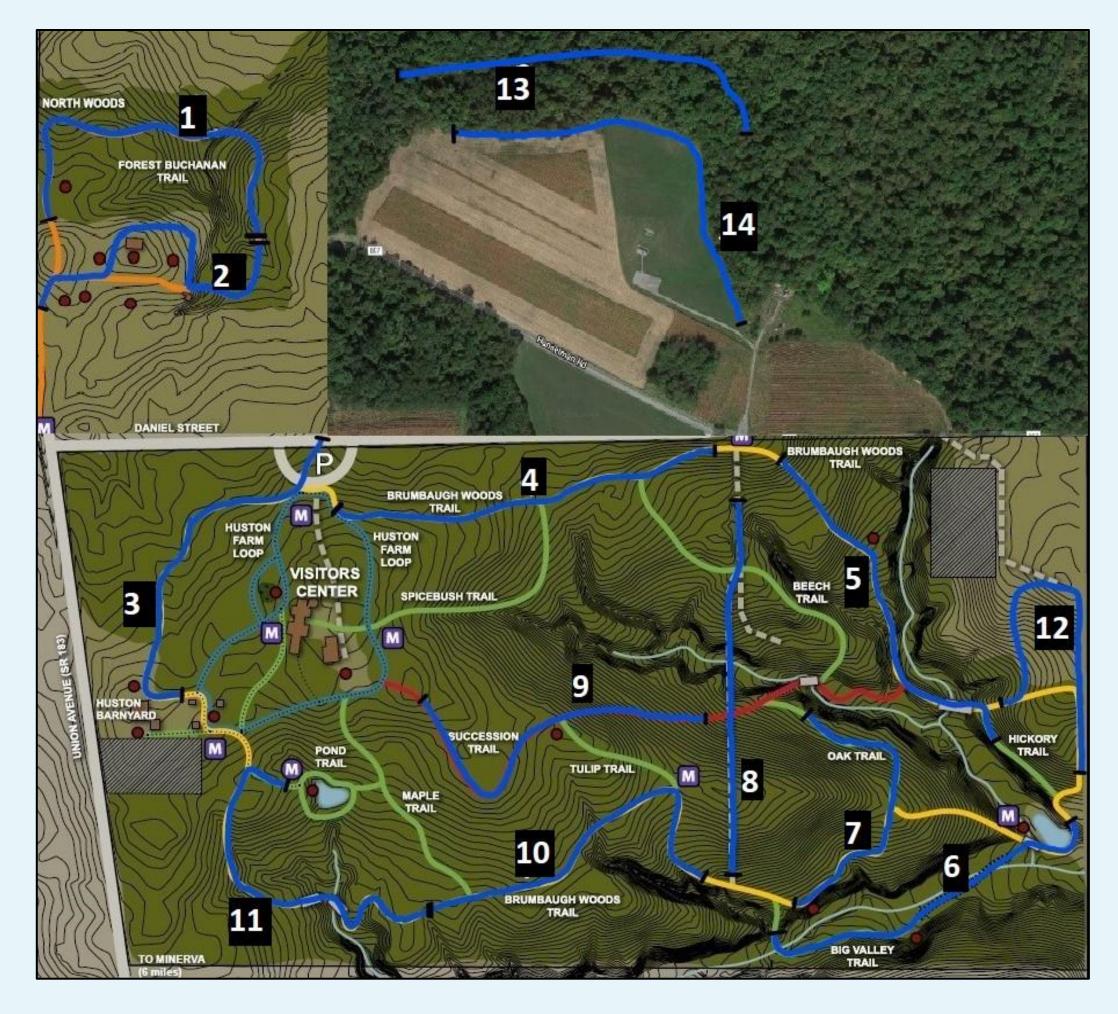


Figure 1. Map of transect locations on the HBNC property.

MATERIALS and METHODS

• **Transects:** Fourteen 400-m transects were established on the property and walked over a 30-min period (Figure 1). Two transects were walked each sampling day between 7 and 10:30 am from Jun 3 to Aug 9, 2019. All bird species seen and heard were noted.

• **Bird Banding**: Mist nets were put up once a week from 6 am to 12 pm along the Powerline Corridor from Jun 6 to Aug 1 when conditions were suitable. Birds that were captured were identified and banded.

 Point Counts: During the bird banding sessions, all species seen and heard from that one location were also noted.

2019 Breeding Bird Survey at the Huston-Brumbaugh Nature Center (Stark Co., OH)

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RESULTS

Table 1. Bird species noted by observation methodand listed in taxonomic order according tothe American Ornithological Society.

the American Ornithological Society.				
Bird Species	Transects	Bird Banding	Point Counts	Breeding ?
1. Canada goose			YES	NO
2. Mourning dove	YES		YES	YES
3. Yellow-billed cuckoo	YES		YES	YES
4. Chimney swift	YES		YES	Maybe
5. Ruby-throated hummingbird	YES		YES	YES
6. Killdeer	YES		YES	Maybe
7. Turkey vulture	YES		YES	NO
8. Red-tailed hawk 9. Barred owl	YES		 YES	YES YES
J. Darreu Uwr			I ES	I ES
10. Red-bellied woodpecker	YES		YES	YES
11. Downy woodpecker	YES	YES	YES	YES
12. Hairy woodpecker	YES	YES	YES	YES
13. Northern flicker	YES		YES	YES
14. Pileated woodpecker	YES		YES	YES
	NEC			
15. Great crested flycatcher	YES		YES	YES
16. Eastern wood pewee 17. Acadian flycatcher	YES YES	YES YES	YES YES	YES YES
17. Acadian Hycatcher 18. Eastern phoebe	YES	1 ES 	YES	YES
19. Yellow-throated vireo	YES		YES	YES
20. Red-eyed vireo	YES	YES	YES	YES
				-
21. Bluejay	YES		YES	YES
22. American crow	YES		YES	YES
23. Tree swallow	YES		YES	YES
24. Purple martin	YES		YES	NO
25. Barn swallow	YES		YES	YES
	VEQ		VEC	VEC
26. Black-capped chickadee 27. Tufted titmouse	YES YES		YES YES	YES YES
27. Turted tumouse 28. White-breasted nuthatch	YES	 YES	YES	YES
29. House wren	YES	YES	YES	YES
30. Carolina wren	YES		YES	YES
31. Blue-gray gnatcatcher	YES		YES	YES
32. Eastern bluebird	YES	YES	YES	YES
33. Veery	YES		YES	YES
34. Wood thrush	YES	YES	YES	YES
35. American robin	YES	YES	YES	YES
36. Gray catbird 37. Brown thrasher	YES YES	YES	YES YES	YES YES
37. Brown unasher 38. Northern mockingbird	YES			YES
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39. European starling	YES		YES	YES
40. Cedar waxwing	YES		YES	Maybe
41. House sparrow	YES			YES
42. House finch	YES			YES
43. American goldfinch	YES	YES	YES	YES
44 (31)	VEQ	VEQ	VEG	VEQ
44. Chipping sparrow 45. Field sparrow	YES YES	YES	YES	YES YES
45. Field sparrow 46. Song sparrow	YES	 YES	 YES	YES
40. Song sparrow 47. Swamp sparrow		YES		Maybe
48. Eastern towhee	YES	YES	YES	YES
49. Baltimore oriole	YES		YES	YES
50. Red-winged blackbird	YES		YES	YES
51. Brown-headed cowbird	YES	YES	YES	YES
52. Common grackle	YES		YES	Maybe
52 Orionhind	VES		VES	VEC
53. Ovenbird 54. Louisiana waterthrush	YES	 YES	YES	YES Maybe
55. Common yellowthroat	YES	1 ES 		YES
56. Hooded warbler	YES	YES	YES	YES
57. American redstart	YES	YES	YES	YES
58. Yellow warbler	YES			YES
59. Scarlet tanager	YES	YES	YES	YES
60. Northern cardinal	YES	YES	YES	YES
61. Rose-breasted grosbeak	YES	YES	YES	YES
62. Indigo bunting	YES		YES	YES
TOTALS	58	23	53	59
IUIALO	30	23	33	37

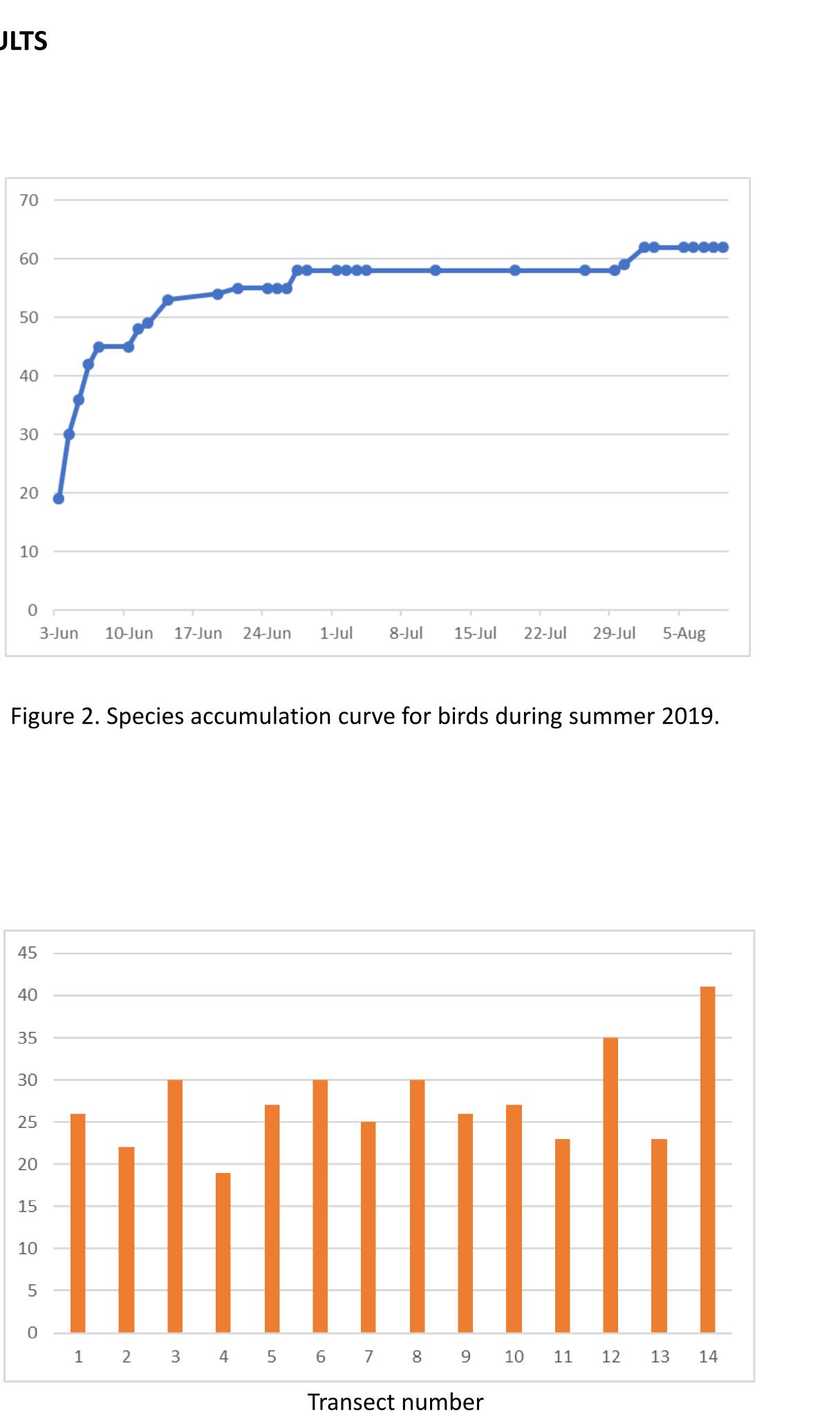


Figure 3. Number of bird species seen and heard by transect over the full sampling season.



bird banding, and point counts from June 3 to Aug 9 but not all species are believed to be breeding at HBNC (Table 1). • 58 of the 62 species (93.5%) were recorded by Jun 27. Transects should be started in May if this project is repeated (Figure 2). • Red-bellied woodpecker, Acadian flycatcher, Red-eyed vireo, House wren, Wood thrush, and Northern cardinal were present on all transects. • Wood thrush was the most common species encountered in this study. It is listed as a "Near Threatened" species by the International Union for Conservation of Nature. • Species that could be breeding on the property but were not recorded include Wild turkey, Wood duck, hawk species such as Cooper's hawk, and owl species such as the Greathorned owl. • Transect 14 highest species richness (41) and Transect 4 had the lowest (19). The average number of bird species/transect was 27.4 (Figure 3). • Overall the HBNC appears to have a healthy breeding bird community in the forested areas but improvements could be made to the field/grassland areas.

CONCLUSIONS

• A total of 62 bird species were recorded via transects,

Figure 4. Three common species found in this study a) House wren, b) Acadian flycatcher, and c) Red-eyed vireo.

ACKNOWLEDGMENTS

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