are also important factors that influence size and success of local populations. It seems likely that if good quality habitat within the Eastern Bluebird's nesting range contains properly monitored nest boxes, bluebirds will eventually colonize the area provided the regional population base is sufficiently high. These local areas, especially those that provide predator proof nesting boxes, can aid in increasing the Eastern Bluebird's nesting success.

Acknowledgments

We wish to thank the respective administrations and staffs of the three study areas for allowing us to conduct bluebird studies on their sites and for aiding us at times with equipment and labor. Thanks especially to Dick Wason (deceased) and Chris Whelan of the Morton Arboretum, Dan Ludwig of the DuPage County Forest Preserve, Rudy Dorner of Fermilab and Ed Miller of Governor's State University. Jeff Hardt put in uncountable hours monitoring bluebird boxes especially at the Morton Arboretum and McKee Marsh sites, and Joan Harmet put in many hours of data entry. Ron Olsen and his Boy Scout Troop constructed a large number of nest boxes for us. This study was funded in part by the Chicago Academy of Sciences and by a grant from the North American Bluebird Society.

Literature Cited

Berner, K.L. 1990. Field tests of predator-deterrent nest box devices for acceptance by cavity nesting birds. Sialia 12:123-128

Berner, K.L. 1991. Field tests of the "Bird Guardian" commercial predator guard. Sialia 13:14-19.

Berner, K.L. and Veronica A. Pleines. 1993. Field tests of several styles of Bluebird nest boxes. Sialia 15:3-11.

Davis, W.H. 1993. More experiments with Raccoons. Sialia 15:49-50.

Eakin, J. 1983. A study of the Eastern Bluebird at the Holden Arboretum, Lake County, Ohio. Kirtlandia 40:2-51.

Gowaty, P.A. 1981. Aggression of breeding Eastern Bluebirds (<u>Sialia sialis</u>) toward their mates and models of intra- and interspecific intruders. Animal Behavior 29: 1019-1027.

Graber, R.R., J.W. Graber and E.L. Kirk. 1971. Illinois Birds: Turdidae. Biological Notes No. 75. Illinois Natural History Survey. Urbana, Illinois. pp. 34-42.

Hartshorne, J.M. 1962. Behavior of the Eastern Bluebird at the Nest. Living Bird 1:131-149.

Henderson, C.L. 1984. Woodworking for Wildlife. Minnesota Dept. Nat. Resources, St. Paul. 48 pp.

Krieg, D.C. 1971. The behavioral patterns of the Eastern Bluebird. Bull. No. 415, New York State Museum and Science Service. Albany. 139 pp.

McLachlan, G.J. 1992. Discriminant analysis and statistical pattern recognition. John Wiley & Sons, New York, New York.

Munro, H.L. and R.C. Rounds. 1985. Selection of artificial nest sites by five sympatric passerines. J. Wildl. Manage. 49:264-276. Noel, J. 1991. Jim Noel's cat and coon guard. Sialia 13:58.

Norusis, M.J. 1988. SPSS/PC+ Advanced Statistics V2.0. SPSS Inc. Chicago.

Parren, S.G. 1991. Evaluation of nest-box sites selected by Eastern Bluebirds, Tree Swallows, and House Wrens. Wildlife Soc. Bull. 19:270-277.

Pinkowski, B.C. 1977a. Breeding adaptations in the Eastern Bluebird. Condor 79:289-302.

. 1977b. Foraging behavior of the Eastern Bluebird. Wilson Bull. 89:404-414.

. 1979. Annual productivity and its measurement in a multibrooded passerine, the Eastern Bluebird. Auk 96:562-572.

Pogue, D.W. and G.D. Schnell. 1994. Habitat characterization of secondary cavity-nesting birds in Oklahoma. Wilson Bull. 106:203-226.

Pollock, H.S. 1989. Coping with the House Wren. Sialia 11:93-95.

Power, H.W. 1980. The foraging behavior of Mountain Bluebirds. Ornith. Monogr. No. 28. 71 pp.

Read, W.F. 1990. Banding Eastern Bluebirds as part of a cooperative project. Sialia 12:135-136.

Thomas, R.H. 1946. A study of Eastern Bluebirds in Arkansas. Wilson Bull. 58:143-183.

Willner, G.R., J.E. Gates, and W.J. Devlin. 1983. Nest box use by . cavity-nesting birds. Amer. Midland Nat. 109:194-201.

Victoria J. Byre, Oklahoma Museum of Natural History, University of Oklahoma 1335 Asp Ave., Norman, OK 73019

Mary Hennen, Director Chicago Peregrine Release and Restoration Program, Chicago Academy of Sciences, 2060 North Clark St., Chicago, IL 60614

Meadowlark