BLUEBIRDS AND CLEARCUTS

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The success of bluebird trails in western Canada led me to believe that clearcut areas in the boreal and subalpine forests would provide suitable habitat for Mountain Bluebirds and Tree Swallows if nesting sites were provied.^{3 4 5 6} In April 1976, I placed 100 nesting boxes in and adjacent to clearcut areas at Hinton, Alberta. The former status of breeding populations was not known; however, in 1976 nine boxes were occupied by Mountain Bluebirds and two by Tree Swallows. This nearly equals the success of first year bluebird trails in prairie habitat.⁴ The major competition for nesting sites was by Red Squirrels (Tamiasciurus hudsonicus) and Deer Mice (Peromyscus maniculatus).

The trail is located north of Hinton in the foothills of the western cordilla region (Fig. 1). Elevations range from 1219-1524 m, with an annual precipitation of 400-450 mm and a mean annual temperature of 3°C. It has grey wooded soils with well developed drainage patterns.^{1 2} Previously the forest cover was large homogeneous tracts of Lodgepole Pine (*Pinus contorta*), Alpine Fir (*Abies lasiocarpa*) and White Spruce (*Picea glauca*). The area now contains numerous clearcut blocks, some as large as six square miles.

During the summer of 1975, the Junior Forest Wardens constructed 100 nest boxes following directions supplied by Lorne Scott of Regina. In April, 1976, these were erected along the Northwestern Pulp and Pc Management Trail (Fig. 1). The bo were fastened on residual vegeta or posts at a height of 1.0-1.5 m. Th were on opposite sides of the r (approximately 30 m from the ro and spaced at 0.5 mile intervals. nesting boxes were monitorec May, June and October.

The success of the project greater than anticipated, and with additional 100 nesting boxes for season I am convinced bluebirds swallows will be established in th clearcut areas.

I was pleasantly surprised at lack of vandalism and the absenc competition by House Sparrows Starlings. The two major probl were the faulty construction of nesting boxes and the destructio the boxes by Red Squirrels in a adjacent to Lodgepole Pine stance

- ¹Anonymous. 1969. Atlas of Alberta. versity of Alberta, Edmonton.
- ²Anonymous. 1968. Alberta Forest Ir tory. Alberta Forest Service, Edmo
- ³BURNS, R., D. STAPLEY, R. SUER and K. TRANN, Project nest Edmonton, 1972. Blue Jay 31:89-9
- ⁴KARGUT, J. 1974. Bluebird proje Langham. Blue Jay. 32:106-107.
- ⁵PINEL, H. W. and J. C. ROBINSON, Calgary bluebird trail. Blue 32:108-110.
- ⁶SCOTT, Lorne. 1974. Indian Head blu trail. Blue Jay 32:107-108.

Table I	Number of Boxes Used		
Species	May 20	June 4	Oct. 27
Mt. Bluebird	5	9	2 (dead you)
Tree Swallow		2	1 (eggs)
Red Squirrel	2	4	12*
Deer Mice	1**		3**

*Red Squirrels completely destroyed the boxes by gnawing at the plywood. **The nests were removed and the mice captured.

Note: Wind damage or faulty construction also affected eight nesting boxes.