Jse of a Bird House By a Wasp Colony

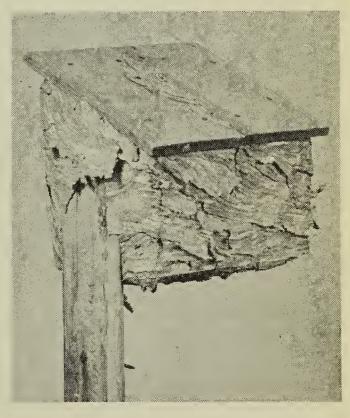
By ROBERT W. NERO, Saskatchewan Museum of Natural History

In the fall of 1953, Mr. Irving arce, of Tonkin, Saskatchewan, ought to the museum a bird house nich had been used as a nest-site a colony of paper-wasps (see complete utilization otos). The hich is evident in this case may be lique and is worth recording. Dr. Bequaert, entomologist and wasp ecialist, formerly with the Harvard useum of Comparative Zoology, mmented on this nest as follows: t illustrates once more how adaptle the nesting instincts of social asps can be, in selecting and coping th an unforeseen environment. I not aware that a similar case has en recorded before in print, alough other types of abnormal nests social wasps have been described om time to time." (pers. corres.) and it wasn't very long before they started to cover the outside. When they had left in the fall we took it down."

Note the extent to which the outside of the unpainted box has been covered with paper (the front edge of the roof measures 7 inches). Ordinarily, of course, these wasps build a nest which is globular. In this instance their instinctive patterns of building have been modified to work on the basis of a cubical structure. The bird house has been almost completely covered with paper on four sides. The bottom is only partly covered around the edges. A seam in the roof has been very nicely sealed by a single layer of paper. In other places the paper is several layers thick. (Seven layers on the back of



Sask. Govt. Photo ren house converted into living quarters by paper-making wasps.



Sask. Govt. Photo
Roof of wren house showing crack sealed with
paper.

Mr. Pearce writes that he had put several similar bird-houses to tract wrens. This one had been aced in a maple tree about ten et from the ground and only a w yards from his home. Wrens ere not observed to nest in the box It late in the summer of 1953 it as noticed that wasps had built inle it. "We never molested them

the box.) The entrance, which is seven-eights of an inch in diameter, has been surrounded by paper which extends right to the upper left edge of the hole but which is otherwise well back from the hole. Since the wasps build their paper structure in degrees, utilizing bits of more or less decayed wood from different sources, a tree-ring-like pattern of increment

is apparent. Paper was added around the entrance hole in a circular manner. The use of this hole indicates another modification of the usual pattern of the nest-site. Ordinarily, the entrance is at the base of the nest. Most of the paper is of the typical gray color but there are a few segments which are rather brightly colored. A bluish - green strand is apparent in two places, and a red-dish-brown strand appears in three different places. We might ask Mr. Pearce to hazard a guess as to the source of this colored wood!

The interior of the bird-house was completely utilized for the combstructure. Ordinarily, wasps begin with a small nest which consists of a single horizontal comb enclosed in a paper envelope. Enlargement of the nest entails tearing down the inner walls of the envelope. Presumably, this took place within the bird house until the limits of its walls were reached, at which point paper was added to the outside of the house. This colony was thus foredoomed to a limited size by its selection of this nest-site.

Dead wasps, found in the interior of the bird-house after carefully removing one section of the roof, were forwarded in April, 1957, to Mr. C. D. F. Miller, Dept. Agric., Ottawa, who kindly identified them as Vespul (Dolichovespula) arenaria (Fabr. Acocrding to Mr. Miler, this specie is widely distributed througout North America in the boreal region and can be considered as our most common wasp. These wasps typically build large nest attached to the branch of a bush or tree.

Wasps of another species (Vespul squamosa (Dru) built a nest in the end of a rolled-up rug suspended is a garage in Florida in December 1952, according to A. N. Tissot an F. A. Robinson (1954. Some unusus insect nests. The Florida Entomologist, 37: 73-92). This observation an others received considerable attention because this species had bee formerly supposed to nest under ground. Once again, simple observations refute published "facts" an point to the need for further stud of our most common insects.

Collecting Moths and Butterflies as a Hobby

Notes from lectures given by A. O. ASCHIM, Prince Albert, to the Prince Albert Natural History Society

A most rewarding study of nature can be made through collecting moths and butterflies, either as a scientific pursuit or as a simple hobby with a large number of possibilities. This hobby is open to the young and the old, the rich and the poor, the expert and the novice. It is so flexible that it can be a mere pastime, or as serious a study as one wishes to make it. It can be related to other studies of nature, and the moths and butterflies themselves are so numerous and varied, that this hobby is practically unlimited in scope.

The height of a collector's ambition would probably be a scientific collection, correctly classified, neatly mounted and stored. However, this hobby has other interesting facets. Showy specimens mounted under glass make beautiful mounts for home display and for gifts or exchanges. They are also acceptable in serving trays, ashtrays, brooches,

ear-rings, etc. The wings of moth and butterflies may be used to mal artistic designs. You can collect spec mens for photographic purposes at make beautiful transparencies with 35 mm. camera.

COLLECTING APPARATUS

Collecting nets may be purchas or made at home. It is useful to ha two or three sizes, including a lar net with a fourteen inch hoop and bag about thirty inches long. Thandle should be of light, strowood, not heavier than a broom hadle. The net itself should be funnishaped but sewn across the bottabout four inches from the apex that the insect can be retrieved wit out injury. One should also have twelve inch net, and for some puposes an eight inch net. The leng of the bags will be slightly over twelve width of the hoop.

Leno is suitable for the net, pl vided a cotton border is sewn arou