

to state that, in this bargain, are included both the house-room for extracting, for spare supers, boxes, crates, etc., and the board of men and team while at work. We say team, because we take it for granted that the apiarist uses horses to transport himself from one apiary to another, and to haul his hives, boxes, honey, etc. When we put bees on a farmer's place, we expect him to take an interest in them, even if he does not work with them, and we want to give him a share of the profits, so that he will make the most out of them when we do. Then our interests are similar, and a bad season for us means a bad one for him. Then he sees his interest in cultivating plants that are beneficial to bees; and we have had one of our farmers to ask at the feed-store for alsike in place of red clover, just because he was expecting to increase his profit as well as ours thereby. In the same way he will think of sowing buckwheat, which he will plow under at the first frost, not only because it will act as a fertiliser, but because it will also give our bees a crop in which he has a share. One of our farmers, a careful one, was in the habit of running his mower over a lot of Spanish needles, just before they bloomed, in a low marshy place on his farm. Since we have bees on his place, and he has a share of the surplus, the Spanish needles have grown unmolested, wherever they did not injure his crops. Is it necessary to give more examples of the benefits derived from an association of the farmer with the bee-keeper? Were it not for the space which I should take, I could give twenty of them.

C. P. DADANT.

Hamilton, Hancock Co., Ill.

### S. E. MICHIGAN BEE-KEEPERS'

ANNUAL MEETING DEC. 15TH.

THE annual meeting of the South-Eastern Michigan Bee-keepers' Association was held in the Supervisors' room of the court house at Adrian, Dec. 15th, 1887, President Howes in the chair.

The Secretary's report was read and accepted as also was that of the Treasurer. The report of the standing committee to confer with the executive committee of the county agricultural society, was given by Mr. D. G. Edmiston, who reported that the apiarian department of the premium list of the agricultural society had been placed in the control of the association and that a fairly liberal amount had been allowed the department, which had been arranged in a suitable list for this department. Some discussions followed the report, which resulted in a motion for a committee to be appointed to revise the premium list of the department, and to make

necessary arrangements with the State society.

The committee comprises: H. D. Cutting, Clinton, Mich.; A. M. Gander, Adrian, Mich.; D. G. Edmiston, Adrian, Mich.

The annual membership fee having been raised from 25 cts. to 50 cts. at the last meeting, was voted back to the former amount. Fifteen new members joined the association.

Only a partial statistical report was secured, showing as follows:

Number of colonies in spring of '87, 307; number in fall of '87, 377. Number of pounds of wax produced in '87, 174 lbs. Number of pounds of comb honey produced, 2,515. Number of pounds of extracted produced, 5,405. Total honey produced, 7,920. Average price obtained per pound, 14 cts. Average yield per colony, spring count, 25½ pounds. Number of queens sold, 91.

A committee of three on exhibits was appointed and the meeting was adjourned to 1 o'clock p.m.

#### AFTERNOON SESSION.

There was considerable discussion on the subject of producing both comb and extracted honey in the same apiary by Messrs. Edmiston, Cutting, Gander, Cleghorn, Howes, and Hubbard, it being generally thought that the extractor could be used to good advantage in an apiary where comb honey was produced; but not to obtain both extracted and comb honey from the same colony at the same time. Mr. Edmiston gave the method practiced by W. Z. Hutchinson, Flint, Mich., for getting the bees to work surplus boxes and storing the honey gathered in them. Mr. Cleghorn gets the bees to enter and work in the surplus chamber by raising a frame of brood to the surplus chamber for a short time, till the bees get well at work, then remove frame and extract honey, then return frame to brood chamber.

The election of officers resulted as follows:

President, Dr. Samuel Stevenson, Morren, Mich.; Vice-Presidents, one for each county in the district of the association, Washtenaw county, Dr. C. F. Ashley, Ypsilanti; Jackson county, F. Wilcox, Jackson; Livingston county, F. L. Wright, Plainfield; Hillsdale county, E. Goodrich, Hudson; Oakland county, J. J. McWorter, South Lyons; Lenawee county, D. G. Edmiston, Adrian; Wayne county, M. H. Hunt, Bell Branch; Monroe county, M. Fleming, Dundee. Secretary, A. M. Gander, Adrian; Treasurer, D. G. Edmiston, Adrian.

The place for holding the next meeting was decided in favor of Jackson, and it was voted to meet jointly with the State society. The time