

whole lot, and maybe just a few, whether they winter safely or no.

PROF. COOK, Lansing, Mich.—Frequently two bushels or more and no harm either. There is a great difference in years.

DR. MILLER, Marengo, Ill.—That depends. If the bees are mostly old, many; if mostly young, few; I should not think a bushel much out of the average.

A. B. MASON, Auburndale, Ohio.—That will depend somewhat upon the age of the bees when put in the cellar. Ordinarily from 16 to 40 quarts with me.

G. M. DOOLITTLE, Borodino, N.Y.—That depends on the age of the bees when placed in winter quarters. One-half bushel would be a small loss, and three bushels not beyond the limit sometimes found when bees winter fairly well.

G. W. DEMAREE, Christiansburg, Ky.—I really don't know. I have never had the opportunity to test the matter. Bees wintered on the summer stands come off mighty well if one-third of the colony as it goes into winter quarters live to see the apple trees in bloom.

WM. McEVoy, Woodburn, Ont.—Not more than 32 quarts if the bees were crowded on five or six combs of *solid sealed* stores of the very best quality, and given full summer entrance and *never* disturbed. Then the bees would keep very quiet and consume less stores.

J. E. POND, North Attleboro'.—Who can tell? Theoretical questions like these cannot be answered with any degree of certainty in the present state of our knowledge, or lack of knowledge, of the wintering problem. Too many factors enter into the problem to allow any one to more than guess. Some hives might lose a quart, others the whole.

ALLEN PRINGLE, Selby, Ont.—This would depend so much upon conditions that are not stated in the query that anything like a definite answer is impossible, while an answer predicated on the fullest data would necessarily be a guess. Of course we can fairly predict what will be from what has been, under similar conditions. If the bees put in are mostly young, I should say there would be 10 to 20 quarts. If the bees put in are largely old you would probably be able to gather up 40 to 50 quarts by the 10th of March.

EUGENE SECOR, Forest City, Iowa.—That is hard to say for the reason that the mortality is much greater some winters than others, without any apparent cause. If you should lose two bushels the bees might still be in fair condition and if you can winter with a loss of a bushel or less, I should say that was very successful. We may expect that a great many bees will die of old age before spring, and it does not mean unsuccessful wintering simply because the bees which have become useless crawl out of the hive to die.

With good food, cellar dry, bees dry, and everything just as it should be, not more than, if as much as, twenty-five quarts. Have wintered in clump with not more than ten quarts to the hundred colonies.

SUNDRY SELECTIONS.

F. M. RULE.—Bees have made no honey until about the 1st of September, but they are storing a great deal now. Very few swarms here this season.

St. Jacob, Illinois, September 24, 1888.

A MODEL SUBSCRIBER.

CAPT. DENNIS KIRKLY.—The JOURNAL is perfection and a most welcome weekly visitor. The bees are still bringing in loads of nectar from golden-rod, asters, smart-weed. I think there is still two weeks' work for the bees. There never was such a yield in the fall, but still it pours in. They have piled it up, filling three supers and the brood-nest so as to crowd the queen and youngsters to the bottom. I have no extractor. 10 cents for one-pound sections is what I am offered at home. I am an old man of 60, live alone, work two farms, keep 150 fowls, and you can tell how busy I am when I have to write this two hours before daylight so as to lose no time; but I must pay for my JOURNAL even if I lose sleep to do so.

Toolesburg, Lewis County, Iowa.

VALENTINE SELWIND.—I started this spring with seventy-eight hives and used all the given remedies for the prevention of swarming, and with a poor season for honey and what went to the woods I have increased to a hundred. I offer \$25 reward for a non-swarming hive adapted for comb honey, but none but truthful persons need apply. I obtained only 800 lbs. of comb and 400 lbs. of extracted. This was from basswood, sweet clover and two kinds of red clover. My bees gathered no fall honey. I will not give up for I commenced keeping bees in 1846, when I made a lot of straw hives but left them in Germany when I came to America. In 1852 bought a colony and had increased to 14 when I lost them all. In 1875 purchased three and when I had 24 on hand 21 died; kept the remaining three until I had 45. Four years ago lost 41, bought four and have now the even hundred, though for the last two years I have worked on the non-swarming system. The best plan I found was to give plenty of room and let them swarm; hive on empty frames, remove parent hive, remove queen cells and double up the hives that have swarmed. In 1887-8 I wintered in cellar and lost but one. It may be foreign to this subject but I have read such outrageous reports that I think bee-men more than the equal of fishermen at 1—.

Roashton, Wood Co., Ohio.