

nature, secreting bread-food from honey, I am inclined to the belief that the system No. 1 (or No. 3) gives an alkaline salivary secretion, converting cane into grape sugar, and dissolving gluten, oil, etc., while starch granules may be converted into dextrine by dilute acids secreted the glands of the other system—ferments and yeast.

I may, however, remark, transform cane sugar into dextrose (glucose or grape sugar), and into levulose or fruit sugar; such a ferment is *Mycoderma aceti*. Pollen, the nitrogenous flesh-former of bees, requires a different digestive secretion than that necessary to convert nectar into grape sugar, but until it be changed it cannot, of course, be assimilated by the bee. If we ourselves have two distinct digestive secretions—the alkaline of the mouth and the gastric of the stomach—we are not going beyond the bounds of reason in ascribing a similar arrangement to the bee's salivary secreting organs, nor in attributing to the sting, the barbs, the palpi, and the poison other and truer uses than those usually attributed to them in the grand scheme of economy, the great and glorious Harmony of of Nature.

SUNDRY SELECTIONS.

HE SENT TWO NAMES. HOW MANY CAN YOU SEND?

R. PETERSON.—I think a great deal of the CANADIAN BEE JOURNAL, and by showing it to other bee-keepers have secured two subscribers. Compared with other years this season's honey crop is very light. From 80 colonies spring count we only secured 2800 lbs. extracted—a very small amount for this locality. I have been with Mr. W. B. Mills for eight years and this is the poorest of the eight. Still I don't feel the least discouraged about the business.

Arden, Ont., Oct. 24, 1888.

WINNERS AT LONDON.

Display Comb Honey 1, J. W. Whealy, Kintore, \$5. Display extracted 1, J. W. Whealy Kintore, \$5. Display of comb honey by a lady, 1, Mrs. R. H. Smith, Ealing, \$5; 2, Mrs. John Rudd, London, \$3. Display of extracted honey by a lady, 1, Mrs. John Rudd, London, \$5. Comb Honey, 20 lbs., 1, J. W. Whealy, Kintore, \$3; 2, Mrs. R. H. Smith, Ealing, \$2; 3, Mrs. John Rudd, London, \$1. Extracted Honey, 20 lbs., 1, J. H. Welsh, Stratford, \$3; 2, J. W. Whealy, Kintore, \$2; 3, Mrs. R. H. Smith, Ealing, \$1. Granulated Honey, 1, Mrs. John Rudd, London, \$3. Crate Comb Honey, 20 lbs., 1, J. W. Whealy, Kintore, \$3; 2, Mrs. John Rudd, London, \$2. Colony of Bees, 1, Mrs. John Rudd, London, \$3. Display of Queens, 1, Mrs. John Rudd, London, \$3. 2, J. W. Whealy, Kintore, \$2. Best marked Queen Bee bred in

Canada, 1, Mrs. John Rudd, London, \$3; 2, Mrs. R. H. Smith, Ealing, \$2; 3, J. W. Whealy, Kintore, \$1. Greatest variety of Queen, 1, Mrs. John Rudd, London, Diploma. Beeswax, 1, W. Ellis, St. Davids, \$3. Comb Foundation, 1, W. Ellis, St. Davids, \$3; 2, E. L. Gould & Co., Brantford, \$2. Comb Foundation for brood chambers, 1, E. L. Gould & Co., Brantford, \$3; 2, W. Ellis, St. Davids, \$2.

BUSINESS DEPARTMENT.

COOK'S MANUAL—NEW EDITION.

We have now in stock ready to go by return mail the latest edition of Prof. Cook's Manual. The price this time is \$1.50, postpaid, but the increase in price is most fully compensated for in the increased quantity of matter and the better quality of the work.

ROOT'S A.B.C.—NEW EDITION.

We have on order to arrive by express another lot of the "A B C of Bee Culture" by Friend Root. This, too, has just been re-issued—the 37th thousand—and much new and interesting matter has been added. We sell more "A B C" than any other; it seems to be so arranged that it is really an A B C for the beginner. The name, too, helps the sale—novices expect to find in it just what they, as beginners, most need.

DISCOUNTS FOR WINTER ORDERS.

See our advertisement as to discounts on winter orders. We give good big ones, and we would like to see them taken advantage of.

HONEY WANTED.

We will pay 12 cents per pound for good extracted honey, delivered in Beeton, in exchange for supplies at catalogue prices, and we will take all that offers, allowing 30 cents each for the tins when they are the "Jones sixty-pound."

In return for the names of ten bee-keepers sent us on a postal, we will send the "Bee-Keepers Dictionary" value 25 cents.

Read the grand array of premiums offered on page 615 of this issue.

No matter what kind of printing you want, it can be done at this office. Visiting cards, bill heads, envelopes, pamphlets, note-heads, anything. Write for figures.