liar area of two inches square was cut out of the centre of the full comb, the caps of the cells carefully removed, and the honey extracted with the extractor and finally by successive exhaustions with cold water. The empty honey comb was then allowed to dry in the air and weighed.

| TABLE OF AVERAGES. | A verage Per-<br>centuge of Wax<br>Adled by<br>Bees.  | 11.11<br>126.9<br>126.9<br>110.0<br>110.0<br>111.0<br>110.1<br>110.0<br>110.1<br>1175.5<br>100.0  |
|--------------------|---|---|
|                    | Average weight Average weight<br>of 2 in. Square in Grammes of<br>of Empty Wax added by<br>Houey Combs Bees | 1.5377<br>1.5377<br>1.2020<br>1.0022<br>1.1022<br>1.2025<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.2355<br>1.23555<br>1.23555<br>1.23555<br>1.23555<br>1.23555<br>1.23555<br>1.23555<br>1.235555<br>1.2355555<br>1.23555555555555555555555555555555555555      |
|                    | Average weight<br>of 2 in. Square<br>of Empty<br>Houey Combs  | 2.9687<br>2.7330<br>2.7330<br>2.7333<br>2.73457<br>2.73457<br>2.7445<br>3.0094<br>3.0014  |
|                    | Milling<br>Temperaturo  | 882<br>888<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77  |
|                    | Name of Wax and Mill  | Choice Wax, Root mill<br>coundation in general use<br>Heavy sheets, Root mill<br>Interior Way, Root mill<br>Choice Wax, Given press<br>Patent process 12 ft square<br>futerior Wax, Given press   |
|                    | Designating<br>Letter,  | 2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>2020-2020<br>200-2020<br>200-2020<br>200-2020<br>200-2020<br>2000-2020 |

The foregoing tables give in consecutive form the data obtained and the averages therefrom.

PARTICULARS respecting the color and appearance of the foundations and their resulting honey-comb are contained in the subjoined memorandum:

A & B-Foundation. nearly white, clear and bright; in the comb it was only a shade darker than the cells.

C & D-Foundation, a shade darker than A, but almost white. Honey-comb very similiar to A.

E & F-Foundation. a bright yellow, clear; in comb. several shades darker than cells. color gradually diminishing from foundation plate to top of cells.

G & H—Foundation very pale yellow; in comb it is slightly more yellow in inner section than in outer. Somewhat darker than wax of cells.

I & J—Foundation. brownish yellow. not so light as E. In comb it is considerably darker than cells, color shading off from centre.

K & L-Foundation, almost identical in color with that of preceding; in comb, yellowish brown and considerably darker than the cells, color shading off as in I & J On the whole, very similiar in appearance to the preceding.

M—Foundation, a very pale yellow, in color, comes between F and A; foundation in comb almost white, scarcely any difference in color to be distinguished between it and the cells.

N-Foundation, a bright yellow. a little lighter in color than E; foundation in comz, color almost gone and in this particular scarcely distinguishab-e from cells.

O--Foundation, bright yellow, a shade darker than N, probably owing to greater thickness; foundation in comb, pale yellow and in this respect differing from N. Does not this show the same shading off from centre as noticed in some of the heavier foundations.

P-Foundation, deep yellowish brown, the darkest in the series, appears to be more elastic than M, which is about the same weight and from the same mill; foundation in comb, brownish yellow, color extending about one half the depth of the cells.

DEDUCTIONS MADE FROM THE ABOVE DATA.

1. That a certain minimum of wax is apparently required for the construction and strength of the cells, although not necessarily the same weight is required in every case.

2. That when a light (in weight) foundation is applied, the bees make up the deficiency ; in other words, the weight of wax produced by the bees is inversely proportional to the amount of wax supplied as foundation. This is well illustrated by M and O, and is borne out to a greater of lesser extent (with one or two exceptions) by the other members of the series lipoints emphat. ally to the economy of supplying the bees with foundation of not more than seven and a half feet to eight feet to a pound.