

OHFLCERS OF TEL ONTARIO BEG KEEPERS ASSOCIATION.
Prosident, $D$. A. Jones Lsa, Lanton, Ont.
1st Vice-1res.
 Executivo Committoo-F. Wobster, Ebg, A Wallace EEq. Brighton; J. B. Hall, Esq., Woodntoob; Dr. Li uncan. Embro.

## bee farming

Evidonce of the Hon. Louls Wallbridge
 Continudd from lubt wank.
9. Whence do you secure your supply of queens, and what queens do you prefer for the improvement of the stocks?

Italinns, thus far. Originally, weimported Inalians from Quinby, New York, Lnugstroth, Ohio, Dudunt, Michigan; but now we have as fine bees as can be imported, rased here. W. C. Wells, of Phillipston P. O., raises as fine as I have Philipston P. O., raises as fine as inave ever seen. Ho will shortly raiso Cyprus
queens from Jones' importations from Queens
10. What quantity of honey does a stock of bees average in one searon?
Last year, 1879, a very good year, each hive, taking that as the basis of calculation, averaged 98 pounds, extracted. This is more than a general average-perhaps 75 pounds would be a fair nverage; 40 pounds would be a fair average of box-honey. I have taken 101 pounds from one hive, and a swarm, box honey. This is extraordinary
11. Is the avorage as oool in quan. tity and quality in your district ${ }_{\text {as }}$ in other countries or in other parts of this Province?
Fully up to the best. We think the white clover and bass-wood the best. The thistle is excellent, but not so aburdant as to quantity. I find the abundant as to quantity. I find the bee-keevers overestimate. The occu.
pation is of an exciting character, which mation is of an exciting character, which
maccount for it. My opinion is that Ontario is one of the best, if not the best country for bee-keoping on this contiaent. There are in all the accounts Jou see published a great deal of brag, for which allowance must be made, expecially in the United States.
12. Do you aulopt any method of supplying the becs with comb?
W. C. Wells manufactures exceilent foundation both for the Brown chamber and honey boxes or supers. There are other manufacturers of foundations in this county as well as Mr. Wells, Levis Searles, Foxboio' P. O., is one of them. Every intelligent bee-keeper aress foundation either for the whole frame or as starters.
d3. What kind of hive do you consider best :
The Laugstroth. I profer a modifi-cation-a little deeper and shorter. The contents ought to be about 2,000 inches subic.
14 With pure-bred queens, do you find any dificulty in keeping up the purity of your stocks ?
Not much. It requires attention, but can easily be done. The drones of bybreds are pure.
15. How do you feed your bees, and in what way sre they protected in winter?

Only bad bee-keepers feed bees, or in a poor bee country. A little food in apring to stimulate is of doubtful good -the quicter the better in the spring.

We winter in wintor depositarlea, tem. perature at $41^{\circ}-45$.
16. What is your theatment of the bees in wet seasons?
Our climate makes no demand for extreme drouth or extreme wet. Thene are great diosalvantages under which we do not lahor.
17. What class of honey commands the best salo in the foreign market?
Clover, bass-twood and thistle. I have been surprised at the preference in Eng. land for buck wheat.
18. How is the foreign trade in honey carried on?
Only in its infancy ; generally individual consignments to persons with
19. Is adulteration have been formed. extent, to the prejudice of the honest extent,
dealer?

Not at all in Canada.
20. What insects are destructive or injurious to bees?
The moth; but with a good hive, the Italians protect themselves. The writer has not seen one this year.
21. What methods are hest adapted to counteract their ravages ?
Good bives, strong colonies, and attentive bee-keepers. The moth is a just punishment for the inattentive sloven.
22. To what diseases are hees subject; and are stocks often lost from such causes?
Foul brood is the coly disease; never heard of it but once in this part of Canada. The best care is to burn the whole thing up, and begin again. This is the cheapest-the labour of curing fisul brood costs more than the value of the beas.

## THE CXPRIAN BEE.

nev. l. l. langastrotit in "aleaninos."
At last we have ample means for judging of the temper of this bee, as sbown in their native island, where no questions can be raised as to their absolute freedom from mixture with other lute freedom from mixture with other
varicties. In a private letter to me, varieties. In a prirate letter to me,
Prof. Cook, of Lansing, says of Mr. Frank Benton, who las done this good for us, "He is scientific in his methods and habits, very earnest and unthusiastic, and lonest to the core." Writing out of his large oxpericace with them, in a season uufavorable for honeypathering that, if they posseised any anmanageable irritability it cusuld not fail to show itself, Mr. Benton gives fuil to show iseelf, Mr. Benton gives
them the palm, even over Italian bees, for easy control in all aecessary manipulation.
Two years ayo Mr. ALuth, of Cincinnati, after weighing all that our Ger. man friends had to say about them, agreed with me in doubting whether their decidod merits in most respects were not more than counterbalanced by excessive irritability. Mr. Beaton's explanation of the simple methods by Which tney may be kept peaceable has disipated these apprehensions, and I
am strongly inclined to think that we am strongly inclined to think that we have been fortunate enough to secure a strain of bees which unites the best qualities of both the blacke and Italians. After a large experience fo many years with the last-named races, I came to the following conclusions:-
(1) Where late forage is saarce, the Ital. ians stop bredinuy much earlior than the lachis.
In Oxford, where, after the second crop of red clover fails, bees usually the Italians, unless artificially stimulated, raise so little brood that they go into winter-quartors with too few young bees. Under the same conditions, young bees. nder the same conditions, rarely ceasiag until after severe frosts, and often perssating in it when they have not honey earough to last them
for more than a few weeks. Now, the evidence is quite conclusive that the Cyprians, like the black", are strongly given to late breeding.

The Italitios, unks stimebated by judicious fecminy, di, ust raviuru: bresdiay as judicious fecting,
tarly as thr Mocki,
In Greentield, Mave. (see p. 339, 34 ed. of my work on the hive and honey bee), where I lad only blacke, the Dec of 1846 was extremely cold. January, is47, was the coldest January on record, in that latitude, for more than fifty years. Once the temperature was $30^{\circ}$ belore zero, $F$., and threre were two days when zero, wind blow a strong gale, the merthe wind blow a strong gale, the mer-
cury getting but once as high tis $0^{\circ}$ below zero. From the 7 th to the 14 th the mercury was, one-half of the time below zerio, and ouly once as lugh as 106 above-the wind blowing ans al. most continuous gale. Exrly in the forenoon of the 14th, the mercury was $102^{\circ}$ beluw \%ero. Later in the day it moderated enough for me to examine three strong stocks, in the ceutral combs of all of which I found egrgs sud unof all of which l found eggs sua un-
capped brood, and in one of the stocks capped brood, and in one of the stocks
a littlo capped hrood. On the 30th of a little capped hrood. On the 30 th of that munth the central connt of one of
these colonies was fourd to be almost these colonies was fourd to be almost
full of sealed brood, mature. My experience with hack becs led me to ex pect breeting to begin in good stocks about the list of Jan., and sometimes little earlier.
In my Italian apiary at Oxford, Where the mean of the winter is very little lower than the mean of March in Greenfield, I soldom failed to get an opportunity of overlooking my stocks some time in February, and rarely found mush brood in that month, even in the stroughat; while in most of the: layiug had sot even begin. The present winter here, though unusually cold, does not compare for severity with that of $1^{2} 47$ in Greenfield, and there have been throe thavs causing the resumption of navigation on the Ohio River. T'wo of my neighions, the Messrs. McCord, examined, on 11th May, a large number of stocks, some of which were very stroug, and in only two was brood in any stage noticed. While it is very true that a small coluny of Itatians, when breeding fairly begins in the epriug, will, ay a rule, rapidly outotrip a black one of equal strongth, is it not equally true that what is called "spring dwindling" among Italians may in many cases be altributed to the abovementioned causes: In localities where the main honey harvest is over on or befuio the middle of rily, carly breed. ing is essential to success, and with Italian bees, artificial stumulus must ordinarily be used to induce it. Some of the readers of Gla aninqs may remenber my experiments in this line two years ago, interrupted by the return of my old malady.
Thus far, all the experiments with Cyprians, which have como to my knowledge, show that in their propensity for botk. late and early breeding, they respmble, even if they do not surpass, the blacks. In the American Bee Journal, Feb. 2, 1881, Mclville Hays, of Wilnington, Obio, writes, under date of Jan. 3d, of his Palestine bees: "To-day I opened the hives and found brood in all stages from the egg up, in six frames." I presume that the iloly-Land bees will bo found to resemble very closely the Cyprians. In this connection, I will mention the curlous fact, that, some years befure the Enyptian bees were minduced into Europe, many of the worsers of one of my the peculiar creicent-like markings of the Cyprina, Palestine, and Egyptiau bees After importiug the Egyptian bees, I couid easily agree with Yogel. that the Italian is a uross between this bee
and the black. Mr. Woodbury's ha:d
expexience with the Eyyption bee un England may easily le secourted for hy supposing hiru to have attempted to handie thern just as he die the Italian*.
Thu lationas are much mure welened to build drone cornb then the blowis.
When forage is abundaut, ave rempty frame was placed between two fuil one: my experience with the blacks led me to expect then to fill it with worke comb; and if their queen way onte of the current year, I could count upon this with alraost absolutely certainty; while, under the same conditions with Italians, drone comb way the rule and lainans, drone comb way the rule and
worker the rare exception. The Italworker the rare excepticn. The ftal-
ians, instend of filling the empty frame. often occupy the vacant space by bulg ing out the other combs; and if the honey in them was capped over, they would sometimes build anotioer tier of cells right upon the cappings of the old combs. Time wouid fail me to dereribe my various experiences in trying, wheu forage was aturdant to iwduce Jtalian stock to buid worker comb, and it was ouly by a free use of the extractor that, to ward the close of my carcer as an ac toward the close of my career as an ac
tive apiarian, I was able to necure-what cost me no tiouble with the bhack:sufficient supply of worker comb. By the use of comb foundation we are nus much better able to remedy this defce in Italians.
Having now mentioned some of the pnints in which the blacke are manifest Iy superior to the Italiars, and reserv. ing others for future discussion, it must be evident that the Italians must have some extraordinary advantages, to give them the preference anong our leading bee-kegpers. These I propose also to notice in another article.
From all that I car learn of them, the Cyprans seem to have in high peifection some of the very beat qualities of the blacks and Italians and unless $\operatorname{Ir}$ Benton can find something still better for us in Asia, we may well congratulate ourselves on its introduction in un. doubted purity intn this country. All honor to Mr. D. A. Jones, of Beeton, Canada, whose extraordinary energy and experience in the manarement of bees, and large expenditures, have done so much, and promise to do so much more, to secure for Europe and America the best race of bees, or the best crows between different races, that the crows between different races, that the
world can give us! Withoat Mr. Junes, word can give us! Vithoat Mr. Junes,
Mr. Bentou might have loured in vain fur such golden upportunities ; and we should be still groping in the dark, as we have benn for so many years, talkaud planning "how to do it"" but still ever so much further off than we now are for the desired goal.
The Moly-Land bees procured by Mr. Jones' personal visit to Palestine will probably be found to have the same gocd traits with the Cyprians, and to be much nearer allied to them in size and disvosition than the Egyptian (Apiifasciata). Mr. Jones himself gives them the preference, and it may be that our most valued bees shall come to $u \times$ from that promised land, flowing in milk and honcy! As the Italians are donbtless a cross, there is not much to be expected by mixing their blood with the new-comers.

## TO PUBLIC SPYAKELSS.

Public speakers and singots who would possess a clear voice, freedom from hoarseness and sore throat should use Hagyard's Pectoral balsam, a safe, pleasant aud certain hoaler for the throat and lunge, it speedily breaks up a cold aid cures all pulmonary complaints, add cures all pulnonary complaints,
that so often lead to incurable consumpthon.
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