farmors for their cattle, \$230,000 went to the railway companies for transportation, and the stock yards received \$41,650. Over \$50,000 was paid for attendance to 3,389 men shipped during the season. There was disbursed for feed \$125,100, most of which went into the pockets of the Quebee farmers. The cost of labor for putting up stalls, etc., reached the sum of \$145,782, while the steamship companies received nearly one million dollars. Messrs. Pope and Morgan, inspectors of live stock, have every reason to congratulate themselves on the result of their work. Of the 83,322 head shippped, only 141 where lost, and of these 57 were washed overboard from the "Scicilia " during a hurricane. In 1892, the losses numbored 601. In the number of boats and number of cattle carried, the Reford lines head the list. The Allans come next, with the Beaver and Dominion taking third and fourth nlaces. Witness.

breeders, and carried back to the ori-ginal habitat of the breed. ... the new movement forward toward higher excellence, American breeders havo kopt fully abreast of their brother breeders in Groat Britain. An evidence of this is shown in the Shorthorn bull, Abbottsburn. He is owned by Col. T. S. Moherlay, of Richmond, Kontucky of this is shown in the Shorthorn bull, Abbottsburn. He is owned by Col. T. S. Moberley, of Richmond, Kontucky, and weighs 3000 pounds. At Chicago the animal was awarded the first prize herd, at the head of which he stands,

Bee-Keeping.

THEFTS.

BY MONS. E. PÉLOQUIN.

An experienced bee-master soon

SHORTHORN CATTLE OF TO DAY.

A leading English writer remarks that Shorthorns never showed their superiority more than during times of superiority more than during times of agricultural depression However low the prices of pure bred cattle may be at any time, the Shorthorns always maintain their relative place among breeds. There is another fact which proves, with still more emphasis, the substantial and inherent worth of the Shorthorns. It is that they have saved themselves from their friends. They have passed through "various manias" and "booms," not only without unfavorable reaction, but they stand higher in excellence as a breed, to-day, than ever before. There was a "color craze," which brought dark reds to the front as favorites, while other characteristic Shorthorn colors were neglected This mania was chiefly local to the United States. There was also a "Duchess craze" which pervaded the Shorthorn world, and culminated in the sale of the New-York Mills herd, some twenty years ago, where a cow was sold for \$40 000 and theifer for \$27,000, simply because they were of the Duchess strain.

Meantime, Amos Cruickshank of Sittyton, Scotland, went on building up a herd of Shorthorns, which have upet many of the old theories. In selecting foundation stock for his herd, Cruickshank was influenced by clear, hard-headed Scottish sense. If a Shorthorn bull or cow was pure-bred and possessed the qualities desired, he did not ask whether it was of any funcy strain. The result was a hord which It will often happen that the pillaged was one of the most notable in Short-horn history. Representatives of the she is found to be unwell. One of the not ask whether it was a hord which It will often happen that the pillaged horn history is deprived of its queen, or that horn history. Representatives of the she is found to be unwell. One of the horn history the prime the prime Sittyton herd not only won the prizes best means of stopping the robbery, in British exhibitions, but wore sent when the colony attacked is worthy of to the United States, to South Africa, boing saved, is to transfer the pland-in fact. throughout the "Greater ered hive to the place of the pland-Britain," which extends round the erer's hive, or the roverse. The robber world

perceives when his hives are being robbed. The bees fly about all round, searching out all the corners and cracks of the hive. When the robbing is on an extensivo scale, a general bumming is heard, and the bees of all the hives are very much disposed to sting. The thieves leave their own hives at daybreak, and continue their work so late that they can hardly find the entrance to their abode. Some even pass the night in the hive they have been robbing. The clouds of this clouds on a riving and departing can hardly to mistaken for honest workers, bearing with heavy flight their burden homo These audacious robbers, when entering a hive resemble Pharaoh's lean kino; but, on leaving it, their heavy-laden bodies are morolike those of aldo men who, having dined at the expense of the rate payers, have stuff-ed themselves as full as they can hold

with all sorts of good things. When the robber-bees have once become masters of a colony, every at-tempt to put a stop to their ravages, whether by closing the hive or carry ing it to another place, is frequently. if care be not taken, more injurious than leaving them to finish their job. The air will soon be filled with various boes, which, excited by their de-feat, will attack with blind desporation the neighbouring colonies

Under such circumstances, the strongest lot of hives is often over-powered, and thousands of bees perish in these bloody contests.

SECOND PART.

world. In building up his Shorthorn herd, An.os Cruickshank "builded better as they leave the plundered hive, and than he knew." He not only advanced studying the direction of their flight. than he knew." He not only advanced the standard of Shorthorn excellence, but by the silent influence of his example he dispelled a great deal of non-sense regarding Shorthorn strains and color. Breeders have learned to he with the pillaged colony does not be when the pillaged colony does not be individual excellence. In no part of the so of dhas this advance been more the word has this advance been more the so of dhas this advance been more the so of the strong rubber-colonies and the stoping up of the entrances of the place of the strong rubber-colonies and the stoping up of the entrances of the place of the strong rubber-colonies and the stoping up of the entrances of the place of the strong rubber-colonies and the stoping up of the entrances of the place of the strong rubber-colonies and the stoping up of the entrances of the place of the strong rubber, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrances of the place of the hives, commonly produce the stoping up of the entrance up the next morning for the the stoping up of the hives, commonly produce the stoping up of the hives the the stoping up of the stoping up o

THIRD PART.

If the bee-master is desirous of for three years old or over, and the warning the bees against scem dishonest conduct, he must take the won the second herd prize. Abbotsburn, greatest care, in these operations, not is not ashapeless mountain of flesh and to leave combs or honey in any place bone, but shapely and symmetrical, where the bees can find them; for as possessing the desirable points all over. soon as they have tasted the stolen to leave combs or honey in any place where the bees can find them; for as soon as they have tasted the stolen honey, they will flutter about the operator when they see him opening a h've, and pounce down into it, to -eizo the treasures laid bare to their viow.

In times of scarcity, food should only be given to the bees at night fall, and it should always be put into the hive upon the combs.

The feeding of bees in the day-time gives rise to pillage in two ways : it excites the fed-bees and induces them to leave the hive in search of more, and the scent of the food attracts the bees from the other hives. Hence, result warfare and hostilities. Abovo all things the bee-master should keep

nis hives well populated. When the nectar begins to be scanty, the hive entrance should be reduced in size by pushing in the block. If the hive contains more comb than the bees can fill, the number should be reduced by means of the division board.

It is especially the weak colonies that should be looked after with the greatest care in spring and autumn; for the stronger ones, being more able to rotain heat on account of tho number, leave the hive carlier, and soon ind out the weaker ones who, unless their honey is well protected, are over-powered. When this advise is attended to, if some of the robbers manage to creep into a weak colony, they are almost cortain to be found out and put to death. Even if some of them should succeed in forcing an entrance they will be met by hundreds of de-fenders ready for battle, and find themselves in as an evil case as those who, deceived by misplaced confidence, have climbed the walls of a besieged fortress only to perish at the hands of their enraged opponents.

The cracks and holes of badly made hives should be temporarily daubed with clay, until there is an opportu-nity of transferring the bees into securer lodgings.

When hives are opened, the work ought to be done as quickly and carefully as possible; and, if a number of robber-bees show themselves during the work, it is a good plan, after clos-ing the hive and contracting its entrance, to lay a handful of grass, the finer the better, on the board below what's what. The spreading the hole, leaving it there for an hour at least, or antil the excitement is consist in taking outer frames and over. The guardians place themselves either shaving of the caps from the in this grass, and drive off the thieves honey or abrading it so that it begins with greater case; the latter soon find to run and placing them in the broodfiner the better, on the board before out that there is but a poor chance of entering the hive, and give up the

bees to be on guard. By this means, the robbers will be tired of trying ucoless schemes of attack, and workers of the plundered colony will be ready

to repel all assaults. Should any of these plans prove ineffective a small comb of Italian bees, ready to hatch-out, may be placed in the weak hive, with the afore-aid pro-cautions, and the colony put into the cellar for a few days. The newly born Italians will receive the enemy warmly, when the hive is replaced in its station, for they form a better garrison than the common bees.

When a honeycomb is broken in the hive, by an accident of any kind. it should be removed at once, and the honey-moistened board should be changed for a clean one; in fact, no honey should be left in any place where bees have a chance to get at it.

(To be continued.)

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THE APIARY.

CONDUCTED BY MR. ALLAN PINGLE SPRING FEEDING AND STIMU-LATION.

Bees are fed in the spring with one or both of two purposes in view. They are fed, when deficient in stores, to keep them up till they can help themselves in the gardens, orchards and fields, and they are fed with the object of stimulating the colony to increased brood-rearing. The latter has been brood-rearing. The latter has been practised extensively in the past among the best bee-kcepers, but is now "going out," as it ought to do. Queons which require such artificial stimulation to do their duty are not worth keeping. With plenty of honey in the hive a good queen will breed up in the spring quite fast enough. It may happen, however through acci-dent or perfect that there will be a dent or neglect, that there will be a number of inferior queens on hand in the spring, in which case it is, of course, advisable to hurry her up by artificial means, otherwise her little family will not be strong enough to take full advantage of the honey flow when it arrives. But great care is necessary in feeding a weak colony in pering whether for stimulation on in spring, whether' for stimulation or to supply needed stores. The effort to save the colony may be means of end-ing it, if robbing is superinduced. Feed just before dark on warm evenings, and the food will then be dis-posed of during the night without any exposure to intruders. Another method of stimulation often resorted to (especially by the amateur, is what is called "spreading the brood." This practice should only be pursued in exceptional cases. There is great danger of "chilled brood " resulting. The novice ought never to 'spread" brood at all till he gets experience and knows what's what. The spreading The brood-nest being thus enlarged