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Rise and Progress of Bee Culture.

READ BEFORE THE AMERICAN BEE-KEEPERS' ASSOCIATION, OCTOBER 8TH, 1878, BY A. J. KING, EDITOR BEE KEEPERS' MAGAZINE, N. Y.

All the great inventions and dis-coveries which have developed the resources of the world to a greater extent within the past century, than in all previous time since the creation, have had their origin, more or less remote, in the ages past. The various applications of steam, electricity, the mechanical powers, and the wondrous development of natural science which have so changed the face of all nature, and the current of thought within the speare, Milton, and in fact, all the drags a big belly. prominent writers, have bestowed on the bee, at least a passing notice. DeMontfort, who, in 1646 wrote a

ber of authors who had written on the Great, placed at his disposal large this subject previous to his time, at between five and six hundred, the larger part of which are lost, but a thousand persons in collecting specitraces of most of them have come mens for his use from all parts of the down to us through works published in the seventeenth century. These works, one of which was written by DeMontfort, seems to unite the ideas | Columella about the commencement of the ancients with those of his own time. And the most romantic and foolish reveries stand side by side with sensible views, and in many instances the two are so badly mixed, batching broad to weak stock. and in the foolish reveries with those of his own time. And the most romantic and work on "Husbandry," in which he gives direction for the artificial swarming of bees. Supplying queens to destitute colonies. Transferring heatehing broad to weak stock, and the most romantic and work on "Husbandry," in which he gives direction for the artificial swarming of bees. Supplying queens to destitute colonies. Transferring heatehing broad to weak stock, and the chiral distribution.

America. It has obtained the reputation from the fact that its supplies are received by steamers, while the fruit coming to this port has been likewise contribute, as they are natively leaves and more delicate than of the ancients with those of his own of the Christian era, wrote a large stances the two are so badly mixed, that to give in full the various views which have prevailed, at different times in the past history of bee culture, would bring a result similar to what Milton says of the writings of Varo and Pliny also wrote in a latter that its supplies that the supplies that to destitute colonies. Transferring fruit coming to this port has been brought by schooners, which occupy nearly treble the time in the passage.

The result has been that the supplies that the supplies that to give in full the various views hat the buyers are ignorant to this day. The result has been that the supplies that the supplies that to give in full the various views hatching brood to weak stock, and many other useful operations of which have prevailed, at different many other useful operations of which have prevailed, at different many other useful operations of which the great multitude of been brought by schooners, which occupy nearly treble the time in the passage.

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pearls as we can in passing.

Of the antiquity of the bee, we cannot speak positively, but the geological evidences of flowering plants, demanding insects for their fertilization, together with the remains of insect feeding reptiles, as well as herbivorous animals, places the bee, at least presumably, ages anterior to the creation of man. The positive proof. Ray was succeeded by Lineus, the inventor of the binomial system of in trade a large number of British of its early domestication are ample. The ancient Egyptian sculpture and tablets abound with hieroglyphics, wherein the bee is the symbol of royalty, their economy being represented with a monarch at its head. In most instances these representations are rude, and betray a lack of close observation, as the bee is pictured with two wings and four legs; however on one tablet of the twelfth dynasty, the bee is figured correctly, having four wings and six legs. Shuckard, in his "British Bees," gives us indications of a still higher antiquity from the Sanskrit, wherein Ma signifies honey; Madhupa, honeydrinker, and mad-humkara, honey

the honey bee, all of which are interesting to the student of Apiculture. indulged in the most extravagant

from moth worms, butterflies from caterpillars, etc. They give recipes to produce swarms of bees, the details of which are too disgusting to relate. Others, of finer and more poetical conceptions, imagined that juices of the summer flowers. Virgil expresses something of this opin-ion in the following from the fourth past few years, are but the accumulation and scientific combinations of will marvel at this custom, peculiar ideas and inventions, scattered all to the bees, that they neither indulge along the line of the ages, by the past | in congugal embrace nor softly disgenerations in their onward march solve their bodies in the joys of from ignorance, superstition and big- love, nor bring forth young with a otry to intelligence, knowledge and mother's throes; but they, them-true science. Of all the fields of re-selves, cull their progeny with their search in the development of national mouths, from leaves and fragrant industries, none are more fruitful, in- herbs. They, themselves, raise up a viting and instructive to the antiqua-rian than the history of the culture of build new palaces of waxen realms." the honey bee, for in all his researches, With all these false notions of bees, he will find himself in the company the ancients still possessed much of the wisest and best minds of all ages. valuable knowledge. To Aristotle Poets, naturalists, philosophers, and Virgil we are indebted for the doctors of divinity are all largely re- first discription of Italian bees, which, presented in its history. Honey was until recently, had been regarded as regarded by the ancients as a present a myth. Virgil remarks as follows from the Gods, and with it their libations were made around the tombs of those dear to them. With honey they preserved their corpses. With honey their Gods were appeased by pouring it on their alters and the heads of the victims. Honey was the only sweet known until within comparatively modern times. The seasons of the sky, you may press the Holy Scriptures abound in figures of luscious honey, yet not so luscious, the highest joy and the most exquias pure and fit to correct the hard site sweetness, drawn from the bee relish of the grape." Again he says : and its delicious product. Aristotle "There are two sorts, the one glorpronounced the honey bee a magazine ious with refulgent spots of gold, of the virtues. Virgil, the most ele- and is distinguished both by his gant of the Latin poets, call it a ray make and conspicuous with glittering of the divinity, chose it as the subject for the best of his Georgics. Shak-

Aristotle lived three hundred years prior to the Christian era. He wrote largely on every department of naturesorted to for surplus honey.
(Continued next week.) what Milton says of the writings of Varo and Pliny also wrote in a have resorted to New York, where, the Fathers. A huge drag net, brought down the stream of time, filled mostly with sticks and straws, which led to the belief that in those filled mostly with sticks and straws, pebbles and shells, sea weed and mud, with a pearl in the oyster here and knowledge of the broad hest, and they were chastled to purchase of pebbles and shells, sea weed and mud, with a pearl in the oyster here and knowledge of bee culture prevailed. there. We shall confine ourself to the merest outline of this history and the merest outline of this history and ages" now came on, and for the space of the trade of their sister city. endeavor to select as many of the of nearly fourteen hundred years no progress was made in any department among the importers last autumn, of national history, but on the contrary much was lost.

mental darkness the celebrated John tween Philadelphia and the Mediter-Ray appeared. He collected and ar- ranean. To build such a line at home ranged all which survived of the pre- was out of the question, and so they vious productions on entomology. turned their eyes abroad. They asclassification which is still used by all steamers were lying idle. Communinvestigators of natural science. At | ications were opened with the owners, the close of the 17th century Swam- and the flattering inducement held

prince of apiarians-the great Huber, who appeared about the close of the 18th. century, and with whose history every apiarian, worthy the name, is acquainted. He, it was, who com- weeks an arrangement has been efbining in one the unicomb observamaker. He also traces the same in tion frames of his day, removed their

ing on the enduring basis of truth. Experiments which established one from Malaga and grapes from Al-Of the origin of bees, the ancients by one nearly all the wondrous facts indulged in the most extravagant connected with the natural history of fancies, some contending that they originated from the putred carcasses of animals.

Probably from witnessing the Probably from witnessing the like the honey-bee, by the adoption of which bee-keeping has gradually assumed national importance in all civilized countries. It is a fact that the transformation of insects as millers blind Huber, through the eyes of his faithful servant, Franc's Burnens, saw more and did more for rational beeculture than any one man before or since his time.

The correct theory once established prominent naturalists adopted it. bees were bred from the purest Authors and inventors sprang up on juices of the summer flowers. Virevery hand, and movable frame hives of different patterns were soon in use in various parts of Europe. Munn of England; Berlepsch, of Germany, and DeBovois, of France, being the most prominent, and all of whom have written extensively on the subject of bees and hives. It is estimated that from Shirach up to about 1847, one hundred and twenty-four books were written on bee-keeping. Apiaries sprang up of larger dimensions than ever before, some nobleman owning as high as eight thousand stocks. The discovery of the refining of sugar, made by the Venetians about the middle of the 16th. century was at this time in full blast in Germany and served to distract attention from the production of honey, and sufficiently accounts for its decline

about this time. The engraving and description of the Munn movable frame hive, may be found in the "Cottage Gardener's Chronicle," London, 1843, page 317, also in the author's pamphlet in 1844. The DeBovois' movable frame hive, which was almost identical with King's American bee-hive, is fully described in the author's large book on apiculture, published in France, ferent modes of drying; this last, inin 1847. Berlepsch hive invented in 1840, was greatly improved in 1845, making it almost identical with the ing fruit. In his account of Spain, I ab-Langstroth. He further improved it orde thus describes the mode of dryand published an illustrated description in the Bienen Zeitung, for May, of Valencia they make a kind of ley 1852. But bee culture in Europe

used either the straw hive, wooden gum, or square box, with bars crossing the top to which the combs were attached, and either the storifying, nadir and collateral system were

Making Philadelphia the Great Fruit Center.

Hitherto New York has been regarded as the chief distribution cen- not so sugary, but their substance has nearly or quite double the value of ter for foreign fruits imported into America. It has obtained the reputation from the America of Malaga are preferred by

The subject was first broached when it was conceded that they could only succeed in their object by secur-At the close of this dark era of ing a direct line of steamships bemerdam, Maraldi and Raumer wrote out of a full cargo of fruit one way extensively on bees and hives, and a hold full of grain and merchan-

aged by the success of the preliminary effort, negotiations were reopened between the importers and the shipfected by which a steamer laden with fruit will leave the Mediterranean bunches being gathered first, and

islands, oranges from Sicly, lemons meria.

The fruit importers anticipate that the results of this enterprise will be to make Philadelphia the chief center for the distribution of foreign fruit imported into America. Buyers, they say, will be more ready to resort here than to New York, and a goodly portion of the latter's trade will thus be diverted. A steamer can make the distance with comfort in twenty-eight days, while one steamer's cargo is equal to nearly five of those brought per schooner.

Philadelphia fruit dealers have already been successfull in playing hav-oc with the New York trade in bananas. Formerly the Gothamites controlled a large portion of the West India growings, and the Philadelphians were almost entirely left out in the cold. But the latter be thought themselves of the idea of buying the crops when the young fruit was but just sprouting, and of having their schooners on hand in the harbors as soon as the fruit was fit to pick. The scheme was successful and to-day three-fourths of all the bananas which are brought to America are distributed from this port. A movement is now on foot looking to the construction of a small, swift, iron steamer to ply between Philadelphia and the West Indies. The vessel is to be completed by the spring of next year.

Notes on European Raisin Making.

The different qualities of imported raisins known in the trade are the with the ashes of rosemary and vine was by no means carried on princi-pally by those using movable frames. On the contrary the great majority and a vessel full of holes containing the grapes is put into it. When the bunches are in the state desired they are generally carried to nakid rocks, where they are spread on beds of the field Artemisia, and are turned every two or three days till they are dry. In the kingdom of Granada, particularly towards Malaga, they are simply dried in the sun without any preparation. The tormer have a more pleasing rind, but a less mellow substance; the skins of the latter are urally larger and more delicate than those of the kingdom of Valencia."

The finest kinds at the present hazg in bunches on the vines, the stalks being partially cut through so as to interupt the natural flow of the juices, and the leaves being also removed around the bunches. The Spanish grape harvest for the preparation of raisins commences in August, and during the drying, more particularly of the better kinds of fruit, the bunches are very carefully overhauled and the small or injured fruits removed. Great care is needed that rain or moisture should not get to them, by which the fruit is often spoiled; and the stalks, instead of being the bright, reddish-brown color, so familiar to us, and always indicative of good fruit, become black or blotchy. When thoroughly dried they are carefully and tightly packed

extensively on bees and hives, and Shirach, Reims and others still later.

These writers discovered many of the facts connected with the secret working of the hive, which contributed largely in raising the vail of Igno-largely in raising the vail seven feet apart, commence bearing in the third year, and are considered in perfection at from four to six years old. The gathering of the fruit commences in July and lasts till about maker. He also traces the same in the Chinese dialects. The earliest Shemitic and Aryan records, the Book of Job, the Vedas, as well as the poems of Homer, are conclusive proof of the early domestication of pro

Sultanas always realize a higher pricein the market than the other kinds of raisins, and the produce also fluc-tuates very much. It is estimated that, in the neighborhood of Smyrna about 10,000 tons are annually produced. Very large quantities of raisins have been received from Malaga this season. From August, 1876, to June 30th. of 1877, as many as 1,342-000 boxes arrived, against 977,520 up to the same date of the previous year. In the early part of the season, in some districts near Valencia, the vineyards suffered severely from storms, but the crops, on the whole, appear to have been good.

Somewhat similar to the Sultana in point of its being without seeds is the currant, the produce of a distinct variety of vitis vinifera, known as Corinthiaca, derived it is said, from Corinth the place of its original cultivation. At the present time it is very largely grown in the Greek islands, especially in Patras, Zante, the best quality being produced in Patras, Vostizza, and Corinth. In a well ordered currant plantation, the vines are usually found in rows about six feet apart, and sufficiently distant from each other to allow the branches to form a spreading head, which is supported by props. What we have said with regard to the gathering and drying of raisins, is generally applicable to the currant.

The current crop of the Morea in 1876, was an exceptionally large one, reaching 70,000 tons, of which England took 53,556 tons, the United States of America 6,431, Canada 906 Trieste, 2,999, North of Europe 441, Russia 659, Marseilles,32, while 4,926 tons were held for shipment to England and America. It seems from the report from which the above figures are gathered, that the consumption of currants is steadily increasing all over the world .- Pacific Rural

Improvement of Common Sheep.

A correspondent having asked the National Live Stock Journal the following question:-" What is the best cross upon our common sheep for quality and quantity of wool for the general market, and for weight of careass?" the editor answers:

This inquiry can be replied to from so many standpoints that an opinion in favor of either of the recognized breeds requires certain explanations.

A cross of the long wool, says Cotswold, Leicaster or Linconshire will insure an increase of carcas to considerable improvement in length and lustre will add to its market

A cross of middle wool-say South. down, Shropshire, etc. will add greatly to the quality of the meat; somewhat less, though considerable to itsquantity; will thicken somewhat the fleece, and give it slight additional weight, without adding much to its value per pound.

A cross of the American Merino will make a marked improvement in fleece-adding to allits desirable characteristics, except that of length, The weight, in many instances, will be doubled, while in any other than an anomalous condition of the market. the value per pound will be somewhat increased. The size of carcass will not be increased, though its compactness and symmetry of outline will be greatly improved.

With the average farmer, the more satisfactory results will be secured by a cross with the long wool breed or the fine wools. The one will show its chief improvement in the carcass, the other in the fleece—though the merits of neither will be confined to these prominent characteristics. Always with the recommendation that the best rams, within reach of the means of the flock owner, be used. and that none of the male animals of the cross be used as sires, no matter how near the desired standard they may approach .- Western Agricultur

-Careful housewife (lifting a shoe from a soup tureen): "La! who'd a thought baby's shoe would turn up in the soup? But I knew it wasn't lost. I never lost anything!'

Cannibalism-Swallowing a little