

# The Nebraska bee-keeper. Vol 3, No. 12 December, 1892

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## THE NEBRASKA BEE-KEEPER.

Official Organ of the Nebraska State Bee-Keepers Association.



Devoted to Bee-Culture, Honey Produc-tion, Fruits, Flowers, Etc.

PUBLISHED MONTHLY.

Stilson & Sons, Editors and Publishers. York, Nebraska.



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cheapest because it saves time.

The Best Bee-Feeder. Most convenient for the bees. No drowning or daubing bees. The feed is taken by the bees without leaving the cluster. From two to seven feeders full may be given a colony at one time which will be stored in the combs in ten or twelve hours.

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## THE NEBRASKA BEE-KEEPER.

Official Organ of the Nebraska State Bee-Keepers Association.

Vol. 3.

DECEMBER, 1892.

No. 12.

Bee Keepers should Visit More.

THE man or woman who always stays at home generally has narrow views. Nothing broadens one's intellect more, supplying new tho'ts and ideas than rest and recreation in a trip from home and its surroundings and rub against his fellow men. Contact with others, not gentleman came back, saving, and in every way better prepared this man had not come in contact

nothing new. And if by talking a whole day with you I could learn something I do not now know, I would gladly pay you \$10.00 for your time." He, being a much older man than ourselves, we replied: "If we could talk with any beekeeper, no matter how unlearned, an hour and not get some new ideas, we would gladly pay him for his time." Later in the day the old only gives them new ideas, but to have learned a great deal today, and you as well, will come new thoughts the most important thing of all is. or even every thought or scene will that I don't know all about bee-be presented in a new style, and we keeping." During the conversacome back to our work refreshed, tion which followed, we found that to take to take up life's burdens a- with his neighbor bee-keepers. He new. Dull indeed is he who can- had been plodding along, content not learn something from everyone in his own conceits, little heeding we meet. This thought was forci- and careing less what others were bly brought to our notice while at doing, and had foscilized, and when, the state fair this yr. One day while like Rip Van Winkle, he awakened standing by our exhibit of bees and from sleep, found himself behind supplies, a very well dressed gen- the times. We sold him "Cook's tlemanly appearing man came a Manual". We predict that as he went long and after a hasty look through home his family could see a change the honey hall, said: "You bee for the better in the man, not from men are always putting up some our work, but from his coming in thing nice for show, but why don't contact with, and seeing what such you learn something new! It is men as Davidson, Kretchmer, Levnow over 60 years since I first knew ering, White, and others had prohow to care for bees, and and for duced and were doing with their the past 50 years, I have learned bees, and the personal visit with

eyes and showed him what and ation. where he was.

then to Bro. B's next month, and onies, old hives or old combs. by the fire all the time but make the winter a time for improvement mentally. It will fit you for better work when spring comes. Benefit others and the reflex action will benefit you.

As the winter season is now before us, we would urge our readers to form clubs or societies for the mutual exchange of ideas, whereby greater success may be attained on the farm, in the garden, orchard or apiary. Farmers as a class are somewhat isolated and their families do not enjoy the priviliges meetings, socials and libraries as those living in the towns, but as the long winter evenings come on, they can meet around for neighborhood visits and by systematic efforts can have select readings from standard authors on all subjects interesting to the farmers followed by the personal practice of those present.

One line of work may be taken up one evening and another the next time, which would prove instructive to all attending.

Try it.

#### Shall Bees Be Taxed.

There has been considerable discussion in some places the state this

each of these men that opened his season regarding the subject of tax-

With the disease of foul brood, Books, papers, or letters, would scattered in some parts of the state never have had the same effect. It there should be some method of must be by actual contact. So we providing pay for an inspector say again let every bee-keeper visit whose duty it should be to see that his neighbor bee-keepers. Get up all infected colonies were either neighborhood visits Take your stamped out or cured, so that the lunch baskets and your wives and disease should not spread, by shipgo to neighbor A's this month and ments and contact with diseased colso on. No need of talking bees all it now stands there is no fund to the time but enough to know how pay the expenses of an inspector, each one is doing. Then have a and consequently his services are iggeneral good visit. It will do you nored, if possible. It is a serious all good. The long winter is now quotation, as to how best to combat here. Don't be a clam and sit down the disease and confine the infected apiaries and then stamp it out. As these is no way of preventing the sale of infected colonies, or punishment for selling, we would like to see a rigid law passed this winter, making the sale or keeping of infected colonies a misdemeanor and heavily fineable, and also would not object to having bees made taxable for the purpose of raising a fund from which to draw pay for the services of an inspector who should be a qualified officer in his own county with power to look through all apiaries when the disease was suspect-

> A tax of 5cts. for each colony on hand when the assessor makes his yearly visits, would not be oppresive to the bee-keeper and would prove a source of information as to where bees were kept and would create a fund sufficient to have the inspector to look more thorough for disease than as it is now may not be the best way of reaching the trouble If someone has a better plan, we will gladly give space to ventilate it. Let us have the best plan, whatever it is. Our Legislature will soon be in session and if anything is done for the next two years, it must be done soon.

Prof. Gillette's Lecture. At the Colorado Bee-Keepers Convention, Held at Longmont, Col., Sept.28, 29.1892

OUL BROOD has long been known as a true contagious disease. On account of the habit of the honey bee of living in large families, or communities, and the fact that beekeepers are continually shipping queens and colonies of bees from place to place, this malady has greatly increased in prevolence, and there is scarcely a possibility of its extermination. foul brood once gains entrance into an apiary it is sure to destroy every colony less proper measures are adopted to exterminate it. On account of the extreme fatality and contagious nature of this disease and the fact that it is becoming common in parts of the state it is important that all who keep bees should understand its cause, its methods of dissemination and development. its symptoms, and methods of prevencipally upon these latter topics.

tact of an animal or vegetable parasite, tance to man. Everyone understands how it is that not appear in its absence.

ly is that the parasites, which are commonly called bacilli or microbes, are so very minute that they can only be seen with the aid of the compound microscope. And because they are not seen there are many who think they exist only in the mind of the scientist. What are these minute organisms? how do they grow and multiply? what do they look like under the microscope? and how do we know that they are the cause of contagious diseases?-are some of the questions that I shall attempt to answer.

Most of the micro-organisms of disand spread to neighboring apiaries un- eases are exceededingly minute singlecelled plants. They are closely related to the common rust, smut, molds, and mildews with which everyone is familiar. They are the very simplest forms of plant life known, and although many are injurious, others are of the utmost importance, for without them the glove would be uninhabitable by man. The soil would soon loose all its fertility if tion and remedy. Probably most of my the organic matter returned to it did hearers are better acquainted with the not decay. Without these organisms spmptoms and remedies of the disease no decomposition would take place. than with its true cause and methods Animals and plants would die, but of dissemination, so I shall dwell prin- would never decompose so as to be available for plant food. There would The researches of the past thirty be no fermentation of wine, beer, or years, and chiefly of the past ten years, other substances, no souring of vinegar, have proven that most, if not all, con- or of milk, no ripening of cream or of tagious diseases, whether of plants or cheese, and in a thousand different animals, are the direct result of the at ways might be pointed out their impor-

These minute germs vary in shape. parasites such as ticks, lice, fleas, and Some of the very smallest are oval or microscopic mites that produce itch, egg-shaped; a great many are sylinderscabs, and mange are conveyed from ical or rod-shaped; some are very short one host to another, and also how it is and almost as broad as leng; while oththat the particular complaint accom- ers are as long in proportion to their paning each of these parasites could breadth as an ordinary lead pencil. Of Cholera, those that are long some are straight, small-pox,diptheria,typhoid fever, meas- some slightly curved or wavy in outels, consumption, hydrophobia, la-gippe, line, and others are in the shape of a and other contagious diseases of ani- corkscrew. All when living have the mals or plants are also parasitic infec-power of a more or less rapid movetions. The only reason that they are not ment, so that when seen under the recognized as such by people general-microscope they have the appearance

of a myriad of animated rods moving rapidly about.

The rods of the Bacillus alvei are remarkable for their very large size. would require only 5,400, placed end to end, to reach one inch. Of the spores formed from the rods it would require 12,000 to span one inch. Some microbes are so small that it would require 50,-000, to reach the same distance. haps it would be more intelligible to say that 1,800,000 of these spores could be placed side by side on the head of a common pin. Without the aid of the high power of the microscope, we could not know that such beings exist.

In 1850, Davaine of France discovered great numbers of minute organisms looking like little rods in the blood of animals that had died of splenic fever or anthrax, but simply looked them as one symptoms accompanying the disease and had no thought of their being the cause. A few years later Pasteur began a series of experiments to determine the cause of fermentation in wine and beer, and proved conclusively that the cause of fermentation was the presence and growth of microor-ganisms, and that without these or ganisms no fermentation could be produced. These announcements, made in 1863, led Devaine to suspect that the rods he found in the blood of animals dying from splenic fever might be the true cause of the disease. He at once began a series of experiments in which be succeeded in producing the disease in the healthy animals by inoculating them with the blood of diseased animals.

So it was twenty-nine years ago that it was first proven that a micro-organism was the cause of a contagious disease. When Devaine announced his characteristic germs of the disease. discoveries but few, even scientific men teur in France in 1877. The results ob-

tained by these investigators proved so conclusively that the microbes were the cause of the disease that there was no longer any room left for doubt. the meantime Pasteur in 1865 announced the results of his investigations of the dreadful silk-worm disease, known as "Pebrine," in which he proved beyond a possible doubt that this disease was caused by a particular microbe.

The discoveries struck the key-note to the real cause of all similar diseases, whether in man, the lower animals, or plants.

But, some may ask, how was known that the cause of the disease was not some poison in the blood or tissues aside from the micro-organisms, and that these latter were the cause instead of the result of the disease? The method of determining whether or not a particular organism'is the cause of a particular disease is the same in all cases. I will tell you what this method is, that you may know how carefully scientific investigations of this sort are carried on. You may tell me if you can detect the possibility of the investigator arriving at a false conclusion. To prove that a particular microbe is the cause of a particular disease it must first be determined that the organism does not occur in the tissues of a healthy animal. Second, the organism must always be found in the tissues of an animal having this disease. Third, the organism taken from the tissues of a diseased animal must be grown in nutrient media, outside of the animal, for a number of generations, and the resulting germ must produce the disease when introduced into healthy animals. Lastly, the tissues of these animals must contain the

It is in this way that Cheshire proved believed in them. Consequently the foul brood was caused by the little orwhole work was gone again by Dr. ganism he named Bacillus alvei. It is Koch of Germany in 1876, and by Pas- the method by which Prof. Arthur to be continued.

What Shall We Do, and How Shall We Do It? fall making \$160 or a net total of

With this month we close up the year, and it is well that we take a look at its work from this end, as we can better see its results and the fruits of our labor than at the beginning. Then all was hope and expectation, now, it is hopes realized or expectations blasted.

When at last New Year, work for the year was planned, we were all too eager to grasp this world's goods, and laid our plans a "little large."forgetting our human weakness and that man cannot control the elements to do his bidding,

The year just passing, has been one of many blessings, and a good degree of prosperity has been given to us and ours, as well as to the State and Nation, for which we are truly grateful, and hope and trust that all our friends and patrons have enjoved as much and more, the smiles of Providence than we.

us more time in which to examine the past and its failres, let us resolve to do better, by improvement upon former methods, so that success shall be more certain and failures less frequent. power to obviate many of the diffito success. By careful, intelligent study and close observation, many of the littles in our way may be removed.

As we marked out our season's apiary work it was easy enough to figure up the amount of profit, or, as a neighbor said, "I now have 16 swarms, giving me 48 colonies. sure to be worth \$5.00 each in the getting and studying them, so that

\$394.40 from 16 smarms of bees." We asked about the expenses, he replied, "the hives he could make himself at odd times when he could do nothing else, the sections did not cost much, and the time careing for them amounted to nothing."

We have taken a little pains to find how this man's calculations had materialized during the summer, and we find that "his bees had not done well. Some swarms had gone off and he had no time to spend looking after those left, and now there are 7 colonies and some empty boxes to begin the winter with.

I give this only as an example of

how easy it is for men to plan for the future and then leave it all to "luck" for fulfilment. It is well to look to the future. Study well the past and its lesson. Use care and discretion in laying our plans, then when mapped out bend every energy to make them successful. Now as winter is upon us, giving say "give up" while life and health shall last. When storms of adversity shall come, as come they surely will, study your chart the closer, look upward for guidance and with renewed energy push on. But what We have it in our has this to do with bee-keeping? Every thing. The same business culties which hinder us in our tramp principles are as good here as other Too many do not study pursuits. the text books and chart. pilot would be considered reliable who knew not every rock and reef. Then why should bee-keepers try to get along without knowing what and where are the rocks and snags in their occupation, when it is so swarms. They must each cast two plainly marked out in our books and periodicals that "he who runs These will each make at least 24lbs may read." If you have not on of marketable honey, which will be your libary shelves one or more of 1152 lbs. selling of 20c will make these boooks, you will never have \$234.40, and the 32 new colonies are a better time than this winter for

you may know whether others have made a success or failure of the modes you propose to try. Don't grope in the dark when there's a light ahead.

#### -THE-

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#### Conventions.

North American Bee Keepers Association. President, Eugene Secor, Forest City, Iowa. Secretary, W. Z. Hutchinson, Flint, Mich.

National Bee Keepers Union. President, James Heddon, Dowigac, Mich. Secretary and Manager, T. G. Newman, Chicago.

Nebraska Bee Keepers Association. President, E. Whitcomb, Friend, Neb. Secretary, L. D. Stilson, York, Neb.

Jan. 13–14, 1893; S. W. Wisconsin, at Boscobel.

It is said the honey crop of Cal. in 1884 was 9,000,000 pounds. In 1886 and 1890 it was five million pounds each year. While this year it was only one million pounds.

The Progressive Bee-Keeper, will make its appearance Jan. 1, greatly improved. The editor is putting in the outfit, so it will not be delayed in order that the printer may do some other job, as it has been heretofore

In sending to us for sample copies, don't be cross, if we don't send them until the the next issue is printed We only keep our files. We do not claim to print large editions and then store large numbers in the back room. Our entire edition is put into circulation.

Printers Ink, a printers trade journal, was excluded from the mails as second class matter the past summer, as not being a legitimate newspaper. Somebody blundered in so doing; and a continuance of the blunder was in not re-instating it or giving a good reason for so doing; especially when done by the political party in power and seeking for re-election. "Curses like chickens come home to roost."

With this issue, we close Vol. 3. The year has been on a whole a prosperous one with us. Trials and discouragements have at times been Wet weather early in the season did not allow our bees to gather early honey, but by care they built up rapidly and increase and honey have paid well. Our supply trade was all that we could handle These we are with our facilities. enlarging for next year's trade. In the printing office, the "boys" have no had it all a play spell. Job work has at times been in the way of having the Bee-Keeper always out on Here, as in the supply work, we have been adding to our plant, so as to turn out more and

To our subscribers, we wish to say that we have been gladdened by your payments and hope we have given you good return for your money and suited you with our work.

Hereafter we add a Horticultural Department which will, we hope prove instructive and entertaining.

To our advertising patrons, we hope our work has been beneficial to you and that our relations are such that they will continue in the future.

To all, we now wish you a Merry Christmas, as a fitting close to the year.

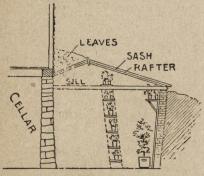
We haven't got on a new dress; only some patches on the old.



#### A HOMEMADE PLANT PIT.

#### A Convenient Substitute for the More Costly Greenhouse.

The homemade pit depicted in the cut was originally described by a correspondent of Popular Gardening. This pit, as the illustration shows, is sunk the depth of a cellar. If this is kept warm by proper openings no other heating would be required. In very severe weather some light shutters laid over the glass at night would be an additional protection. As will be observed, soil is banked up right to the front, so there is little exposure there.



CROSS SECTION OF PLANT PIT.

If it is placed against an outbuilding that part shown "leaves" would not be objectionable, but if placed up a gainst the ordinary dwelling this part might be of boards, or shingles even, and if lined on the inside with thick paper that would be all that would be required. By having a part of the room in under the building, back of the stage, many big plants, such as figs and oleanders, could be wintered. A place of this sort, which is made with comparatively little money and labor, serves to winter over a large number of plants, and is well adapted to the convenience of those who cannot afford the expense of a regular greenhouse.

#### Notable Chrysanthemums.

At the late New York chrysanthemum show were exhibited many fine varieties of this popular flower named after persons of distinction, in illustration of which may be mentioned the Chauncey M. Depew, of Japanese type and deep magenta purple in hue. The Henry Ward Beecher chrysanthemum is a large Japanese flower, high and cup shaped, very double, with thick, folded petals. The Victor is named after the son of General A. C. Barnes, and is a Chinese This variety, incurved, of beautiful form and pink color, shading to silver rose in the center. The Mrs. Langtry is one of the largest white flowers in the exhibition. The Miss Minnie Wanamaker is very much like it. The Fair Maid of Guernsey is distinguished by the nature of its petals, which come out straight. so that you can see right into the center of the flower.

The Billy Florence is a new creation of this year. The inside of the petal is marcon and the outside pink. It is of the reflexed variety, with erect petals, twisted at the points. The Jack Van Nostrand is one of the best and most lasting varieties. A pot plant of this chrysanthemum took first prize at the New York Madison Square garden exhibition last year. It is a deep purple pink, shading to pale lilac, and merges into silver white with age. It is of immense size.

#### Camellia Japonica.

A well known and general favorite is the Camellia Japonica. The plant does not need heat, thriving best in a temperature a little above freezing point, but it cannot bear frost. Free access of air is of great importance, and a liberal supply of water, but not so much as to keep the soil soaked after the needs of the plant are supplied. They are grown best in well drained borders under glass. An attempt to cultivate camellias as window plants in pots generally results in disappointment, the roots not liking such close confinement, and there is apt to be too much heat or an excess of water, causing the buds to fall before opening. The best soil for camellias is a loose mold composed of black loam, peat and sand.

#### The Abundance Plum.

The Abundance plum depicted in the cut is an attractive fruit with its amber hued skin turning to a rich cherry color and with a heavy bloom. The flesh is



A BASKET OF ABUNDANCE PLUMS.

light yellow, juicy and tender. stone is small and parts readily from the

The tree is a vigorous grower and ornamental in appearance. It has gained a reputation for early and abundant bearing. Thanks are due to Orchard and Garden for a cut here presented of a basket of this fine fruit.

#### The Cactus.

The cactus, of which there are about 1,000 species, delights in a dry, barren, sandy soil. There are two simple methods of treatment laid down for the cactus by James Sheehan in his manual on "Plants in the House." First, keep the seil about them constantly dry, and keep them in a warm place; second, the soil should be of a poor quality, mixed with a little brick dust, and they should never be allowed too much pot room. If either of these two points are observed in the treatment of cactuses there will be no difficulty in keeping them in a flourishing condition all the keep the cactus dry and warm; in summer give it all the water it can use."

#### Care of Scions.

The scions cut before the wood is injured by frost should be kept in a cold place, but not freezing, in slightly moist earth or sand, where they will be preserved in a plump, dormant condition. are, dormant, but about ready to start

Farm, Field and Stockman advises that plums and cherries be grafted very early, before there are signs of any flow of sap or swelling of the bud. If the scions are kept dormant, apples and pears may be grafted much later, even in full leaf. The scion must be in dormant condition whatever the time the grafting is done.

#### Keep Dead and Decaying Blossoms from Contact with Healthy Leaves.

Plants with large leaves are often disfigured by blotches that appear at any time upon the foliage. The cause of these spots is sometimes not easy to determine. An otherwise perfectly healthy calla leaf may have a brown spot an inch long and half an inch wide near its center, and no apparent reason for its existence. The probabilities are, however, says the botanist of the New Jersey experiment station, that some days before a withered blossom from a plant above it fell upon the leaf and remaining there for a time began to decay.

Soon after the force of the water from the hose drove the blossom off, but not until it had left the seeds of decay in the leaf. In other words, the fungus, while flourishing upon the rich, succulent substance of the blossom, sent its threads into the leaf below and began the decay that finally ruined the leaf.

Fungus is not usually accused of making its attacks in a direct manner upon living tissues, but does not hesitate to pass from the dead to the living when conditions favor it. In other words, the calla leaf is safe from the attack of spores of the botrytis, but when the vigorous filaments of well established plants present themselves the resisting power is not sufficient to overcome them.

If we had found the remains of the Vick's advice is, "In the winter blossom in the center of the dead blotch it would have been natural to ascribe the cause to the flower or the fungus it had harbored, but in many instances the leaf blackers without any apparent rea-Nevertheless the cause remains the same, for the source of contamination had been removed before the decay in the leaf had become perceptible. The practical conclusion is that no opportu-The usual time for grafting is early nity be given these half way parasitic spring, when both the stock and scion fungi to gain an entrance to healthy plants. The gardener knows how important it is to keep an dead leaves and flourishes upon it especially well in decaying blossoms from contact with very light and sandy soils. Marie Van the healthy parts. Neatness as well as Houtte was the first tea scented rose sent apart from the living.

The treasurer of the New Jersey State Horticultural society states that he is successfully growing black Hamburg grapes in the open air, and he inclines to the belief that we can grow most of the European grapes (vinife-as) in this way.

#### TEA ROSES.

#### Varieties That Cive Satisfaction for Irdoor Culture.

The roses best adapted for indoor carture belong to the class known as ten roses. These are of a bushy growth, and properly treated bloom the year round. The tea roses also produced in



MARIE VAN HOUTTE ROSE.

is alike admirable.

stock for Marie van Houtte, which grows throw the growth into the head.

health demands that the dead be kept out by the late M. Ducher, of Lyons, having been first distributed in 1871.

The coloring of the flowers is charming in its combination of lemon, yellow and peach, and the beauty of the plant itself is great. This valuable rose succeeds everywhere, is not particular as to soil, grows vigorously, blooms plentifully and is of delightful perfume. Other tea roses well suited for house culture are Bon Silene, flowers purplish carmine; Niphetos, flowers pure white; Perle des Jardins, sulphur yellow; La France, lilac rose, and Hermosa, light rose color.

#### Fuchsias.

For general decoration few plants rival the fuchsia, and no house collection is complete without one or more varieties of this graceful flower. When a compact, bushy specimen is desired, pinch off the top of the plant when young. This will cause shoots to start out all along the stem. When the plant has sent up a leader a few inches high. pinch it off again, and thus repeat the operation of pinching while the plant is growing until the desired form is attained. On the other hand, fuchsias may be trained on trellises. Indeed this is preferred by many. They can be trained over an upright trellis, but Sheehan thinks that the best form is that cf an umbrella. His directions are as follows:

Secure a strong, vigorous plant, and allow one shoot to grow upright until about two feet high; then pinch off the top of the shoot. It will branch out and outdoor culture are endless successions form a head, each shoot of which, when of flowers during the summer season, sufficiently long, may have a fine thread blooming at the north until stopped by or hair wire attached to the tip, by which freezing weather. The Marie Van Houtte to draw it downward; fasten the other is a tea rose worthy of admiration. Ex- end of the wire or thread to the stem of quisite in form and color, vigorous in the plant, and all the shoots will then be growth, hardly less free flowering than pendent. When each of these branches the common China, this rose is invalu- has attained a length of eight inches, able to every rosarian. For exhibition, pinch off the tip, and the whole will for buttonholes, for bouquets, for gen- form a dense head, resembling an umeral cut flower purposes or for making a brella in shape, and the graceful flowers display in the garden (see astration) it pendent from each shoot will be handsome indeed. Remember to keep the The polyantharose makes an excellent stock clear of side shoots in order to

#### Covering Strawberry Plants.

Mr. Augur told at a Massachusetts horticultural meeting that he likes to cover the plants pretty well during the winter, and uses from two to three tons of coarse hay per acre for that purpose. The plants do not suffer at all when thus protected, while plants exposed are more or less injured by alternate freezing and thawing. He stated further that he accepted Mr. Wood's idea of matted rows, provided they are not allowed to become too much matted. With any variety he would set the plants three feet apart, which would allow sufficient room for all needed new plants. This seems to call for a great deal of work in preparing the ground, but that is done rapidly.

#### The Cranberry Crop.

As the Christmas season draws near every one becomes more or less interested in cranberries. A large part of the cranberries grown in the United States come from New England, and most of these from Massachusetts, in the vicinity of Cape Cod. New Jersey is also a large producer, and Wisconsin and Michigan yield most of those grown in the west. This season the crop is about 446,400 barrels for New England, 157,500 for New Jersey and 94,200 for the west. Total output this year, 698,100 barrels against 760,000 last year and 800,000 for 1890.

#### An Arbor Vitæ from the Pacific Coast.

Thuga gigantea is a beautiful arbor vite from the Pacific coast and supposed by many not to be hardy on the Atlantic slope. It is claimed, however, that it thrives round about Philadelphia in the nurseries. No plant has been injured there, though some complaint is made about its not bearing transplanting well.

#### Jems in Pear Culture.

A member of the Michigan State Horticultural society recommends cutting back nearly two-thirds of the young growth of dwarf pears. If this is not done and they are not planted deep land. In all horticultural pursuits the enough to become half standards, he entire capital is estimated at over \$1,says they will become top heavy and 000,000,0000 by Mortimer Whitehead tip over. A writer in Field and Farm from the census under the agricultural advises those who anticipate planting department.

pear trees next spring to select the richest ground for them. Pear trees under ordinarily good conditions are heavy yielders, and so make heavy demands upon the soil for plant food.

#### Things That Are Told.

No flower is so popular in America with cut flower dealers as the Bouvardia. Its flowers, being of a leathery texture. continue a long time without withering.

Professor L. H. Pammel, of the Iowa experiment station, has applied sulphate of copper solution to young rows of pear seedlings that were afflicted with the leaf blight, and has found remarkable success from the application.

A member stated at a Missouri meeting that he formerly planted with a spade and lost half the plants. He now uses a trowel. The plasterers' trowel is best, with the handle in the middle: the masons' trowel is too narrow.

The American Cultivator says: "There are a few plants, like pansies, primulas and carne and that like the shade and thrive in : 1 light, and a northern window : .....l to place blooming plants in from time to time, thus prolonging the short life of the sprays of flowers."

#### Interesting to Horticulturists.

Numbered with fuchsias that have been tested and not found wanting are Phenomenal, deep plum color; Speciosa, Electra, Snow Fairy and Brilliant.

The president of the Florida and California Fruit Auction house is credited with saying that "in a refrigerator car the oranges in the center of the box would frequently be rotten, but this was not the case in ventilated cars."

If the seeds of apples and pears are planted in a Howerpot as soon as the fruit is eaten they will attain a good size, fit to plant out next summer or fall, according to American Cultivator.

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