## WORLTS BEE FEEDING SUBSTANTIATED.

least itsert for the encouragement of many who of science.

An examination of the plan of Mr. Gilmore, has ded me much pleasure, and led me to a desire to ar of flowers, and samply carries at to its cell in the This is not correct. The nectar he collects from of the deep—the coral inacct—where, among the scanty sands, they regetate and add beauty and worth to desorption is a secretion from its melific or honey-secre-lation. giands, canalagous to the milk-secreting glands of boner-bag performs the same functions as the cow's merely receives the honey from the secreting-glands retains it till a proper opportunity presents for its a deponted in its appropriate store-house, the honey-Another error is, that the bee collects pollen dentally when in search of nectar improperly called peranny when in search of nectar improperly called by. It goes in search of polle specially, and in school of accter specially. When the pollen is ripe for bee's use, there is no nectar which is ripe parads. It is generally supposed also, that bee collects the wax from some vegetable sub-The wax is a secretion from its body as the It appears in small flakes under the rings of bely, and as taken thence by other bees rendered. It is a fruidul tree, two or three products using game bely, and as taken thence by other bees rendered annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the bee's saliva, and laid on the walls of the cred annually, to the amount sometimes of 100 auts or nice by the cred annually and the cred annually annually annually annual et, so matter what food it may cat, if it be approof a clear apocous liquid, fragrant and pleasant.
the for the bee, and it will not cat it if otherwise, but itself is highly nutritions. Cutting the extrem fasor of the honey will be affected by the aroma M MORRES OF 1 DEST.

Ginore's plan seems to the writer, to afford greater untges than any other. With a bee house to ac-modate as many hives as he means to keep made tight a window to afford light to the attendant; he has issues hires simply constructed, sawed in three cas, which being kept from striking together by slats the two lower stories can be reparated at will, thereby afford opportunity to change the old comb ew, and by being placed side by side with communis letween, the oces when multiplied pass into new whites without swarming, with a queen at their But the greatest improvement of Gilmore's is e alread by which they are enabled to place in more honey than they do on the old plan.

"I have produces better honey, is well to be a module of the plane." salroad by which they are enabled to produce And all add the bee produces better honey, is well seenagainst moths and robbers, is more healthy, winters as, and is more sure to live longer."—Utica Tecta-

## CINNAMON TREES.

dealermoon I visited the cinnamon plantations, of da shere are many in the vicinity of Colombo. The were or shrabs are planted in rows; their is does not at the aimost exceed nine feet, the allertone san corn, oil is obtained; when the fruit abel and boiled the oil swims on the top; it is used store, marked with cocoa-nat oil. The canaighting, margled with cocoa-nat oil. harrest takes place twice in the year; the first, exl-ing great intreest, from April to July; the second, ervest, from November till January. The kis pulled off the seen for branches with a knife, and din the sun, by which process it acquires a yellowish sown color. The finest cinnamon is of a light yellow about the thickness of a card board. The fine a oil used in medicine is obtained from the cinmint, it is shaken in a regel fall of water, in din secred for eight or ten days; the whole is

## NATURAL HISTORY.—THE COCOA

The Cocoa is a tree which delights in the sands of themselves into crevicus of the rocks, where longer root could find no sustenance. The tree is consequently tenacious of life and exceedingly difficult to uproot.

Besides this beautiful adaptation to circumstances by public attention to the improvement of the valuable its Creator, there is another in the arrangement of the atment of rural economy. Many, nearly every thickly coated nut with its hard shell, that makes it so apposes that the bee collects honey from the buoyant, that the winds and ides waft them at imes to

It is affirmed of this tree in India, that there is no com.) If they were the mere collectors, then we part of it not applied to some useful purpose. Not all have the comb frequently filled with molasses, cabins only, but frequently large houses, are communicted sorrer the bees had fed at a molasses hogshead, entirely of materials furnished by the coops. The trunk furnishing in various ways the frame work, often fastened together by cords made from the fibrous enveland sides, rendering them impervious to wind and and ing the depredations of the bee moth. nin

Dr. DUNCAN, mentions that the fibrous envelope of that, even when European cables have parted. tresh leaves are much relished by the elephant. The ashes of the wood are so much charged with potash or soapy matter that the native fishermen of Ceylon substi-

with the tongue, as the mason uses his trowel. more. It bears from its eighth to its sixty-fourth year, self a fine noble looking old cavalier, well mounted, ait ereader must understand that the bee will make. The half ripe not contains frequently three or four pints, ting firm and erect in his saddle, the personification of er, as matter what food it may cat, if it be appro- of a clear aqueous liquid, fragrant and pleasant. The power, mellowed yet not impaired by time, the equipant steed is highly nutritious. Cutting the extremity of ments of his steed all proper and in perfect order, his fasor of the honey will be effected by the aroma the sheath whence the flowers spring, a white, sweet clothes plain, and those of a gentleman, a broad brime flower or other food, but the article will be honey inquid discussfrom the wound. This is called Paim wine, med hat, with a small gold bockle in front, a riding set molarace, or sugar, whether the beefeed on flow- and is obtained also, from other species of the palm. switch cut from the forest, entirely unattended; and thus This, when concentrated by boiling, deposites sugar.-If fully exposed to the air, it acquires vinous properties, and in twenty-four hours becomes vinegar. The nut yields an oil, but little inferior, it is said, to that of sweet almonds. Of the shell, cups and various small articles are manufactured .- Rural New Yorker.

LEACHED ASHES .- Leached ashes are excellent for almost any land. In the process of leaching they lose most of their potash, but retain other valuable fertilizing properties. They are said to be of particular service to the oat crep, and on clay soils. Fifty, sixty or a hundred bushels of leached ashes, with nalf a dozen bushels feeding plan. By his liquid placed in a feeding of plaster, and a few pounds of bone dust, make a the pounds of bone dust, make a most excellent manure for corn, mowing or passure.

> CULTIVATION OF BASKET WILLOW .- Considerable attention is beginning to be paid to the enlitration of bas-ket willowin the United States. The annual importation of the article into our country amounts to \$5,000,-000; and this, large as it is, does not satisfy the consumption. The supply is derived from France and Germany mamly, and costs here from \$100 to \$130 per ton weight.

CLOVERING.-Never spare the seed when you sow clover. Four quarts are not enough to the acre, put on not less than air, and be not frightened if you scatter a peck! The great superiority of thickly sown cloves fields over others for feed and manure, is too annufert to accd demonstration.

A Secret Worth Knowing.—Roll three or four conions in a part of water. Then with a gilding brush I do over your glases or frames, and the flees will not light with his peak ite, nrunning not paring one came and see that the flees will not light with his peak ite, nrunning not paring one came and see that the flees collected by the wasp; and th

The New Orleans Picayane, of the 24th olt., says.

## OTSEGO TROUT POTATO

When to Cooperstown, in June, 1839, I first saw the hease itsert for the encouragement of many who is a second as a se himser, Md, extracted from the Cultivator of Jan. slonger than ones finger, yet exceedingly tough and very, not to the old Red variety. I brought home six, which the Dr. G. B. Smith stands high as a naturalist and strong. These interlace each other and insinuate. I planted on the 6th of July and the next colors of the part of th I planted on the 6th of July, and the next epring planted the product of these, and had in the fall of 1860, seven bushels. In 1851, three bushels, planted on clay ground, produced thirty bushels, and from two on sandy ground I had twenty-five bushels.

I have now planted them three years. They do not rot, and I find them superior to any kind I have raised for summer use, and very productive My mode of cul-tivating is as follows —I have my ground mellowed and well prepared, and plant in April, covering but lightly - mo deeper than my corn-marker leaves its marks of They are ripe in October. I have sold forty bushels at \$1 per bushel, as I wish to spread the seed as widely as possible—thinking the variety of great value to the country.—Cor. Rural N. Yerker.

THE BEE MOTH.-PREVENTION.-In the Rural of the ope of the nut, whilst is leaves plaited, form the roof I lost some two or three swarms by the bee moth. then made new hives, and around the bottom inserted a piece of band iron so that the hive stood some half tack the nut has been woven into cables by which 74 gun from the bottom board. This prevents them from layships have safely outrode heavy gales of wind, and ing their eggs around the hire. Since that une I have ing their eggs around the hire. Since that time I have had plenty of honey, and have seen no sign of the moth.

> THE ILLUSTRIOUS FARMER.—Custis, in his "Recollections of General George Washington," draws the following portrait of the illustrious farmer Fancy to youryou lave Washington on his farm, in his last days at properties, Mt. Vernon. His ride on his extensive estate would be The nut from eight to fourteen miles; he usually moved at a moderate pace, passing through his fields, and inspecting everything, but when behind time, the most punc-tual of men would display the horsemanship of his better days, and a hard gallop bring up to time, so that the sound of his horse's hoofs and the first dinner bell should be heard together at a quarter to three o'clock.

> > When you make a fence, make a good one. It may cost you more at first, but will cost less in the end.

INSECT BUILDERS .- M. Renumer states that for a most excellent manure for com, mowing or pasture period of twenty years, he endeacoured, without moccess, isnd. Leached ashes tary in price, according to location, to discover the materials employed by wasps in forming and demand, from three to twelve cents per bushel.—N. the blue gray, papery substance, so much used in the E. Farmer.

Gullivation of Bazzer Willow.—Considerable at. struck him, while watching her gnawing away the wood with her manibles, that it was from such materials as these sh e formed the substance which so long puzzled hun. He saw her detach from the wood a bus idic of fibres, about one tenth of an inch in length, and finer than a har, and as she did not swallow them, but gathered them into a mass with her feet, he had no doubt but that his opinion was correct. In a short time he saw her shift to another part of the window, and carry with ber e e libers which she had collected, and which she commord to add. He then caught her and began to examine the bundle, and found that it was neither yet mointened not sulled mio a ball, as it is always done before used by the waxp in her building. He also poticed that before detaching the fibres, she besited them into a kind of list with her manbles. All this he imitated with his peak in, bruising and paring the same wood on the article washed. This may be used without the discovered how wasps manufactured their paper; for least apprehension as it will not do the least injury to these fibres are kneaded together into a kind of paste, and when she formed a round hall of them, she spread a mio a leaf, nearly as this as these paper; and this where the water the obtained are alone for control of the whole is the second for eight or ten days; the whole is the water shown pertenday, in Lafayette, a large time, she accomplained by moving backwards, and leveling it is made a large time, she accomplained by moving backwards, and leveling it is she accomplained by moving backwards, and leveling it is she accomplained by moving backwards, and leveling it is she accomplained by moving backwards, and leveling the water time obtained the on after a red coior, but no single flower larger than a good send; the warp forms paper, placing layer your layer, 15 or the coil of the water time obtained with the greatesteer.

They are called the "Phaysne Rose," and to m. 20 sheets deep and thus preventing the earth from falling time later.