Scientific Farming

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THE CORN ROOT WORM.

Thorough Cultivation an Aid In Check ing Savaum of This Insect.

The depredations of the corn root applies commes means losses to farmers every year. This burst belongs to the wish on the roots of the norm plants. where it sucks the life out of the print Reng willing underground, it

these intuites that if the second or perwill be but little dunance done by this

which is meant it for each the second



COUN DISCHIES BY BOOK WORM

and as decidy as possible, in order to break up the auto nests. A couple of of bees is about \$50. There are now good choracen descentivations dur at a conservative estimate, gonoming the motth of April will also belo colonies of bees on 20000 Kalones to hold them in check. This will also forms. The sale value of these bees assist in destroying the weeds, which would be approximately \$1,000,000 serve as a starter for the aphides to while the arrow and of hours had a

then would get us a repellent and so made by California previous the lies from afterbling the The largest operates in Kausses are platts. We have found that a handred in the alfalfa realish as alfalfa offers pounds of a suit per a redsilled in the loss of the test noney making materi plants, but owing no the European war, advantage in western Kansus. To from off of sevent and were a rechair the tiwere very much reduced. This was prepared for use to resting one part of file oil of lemon with ben parts of alco hot, and three oursess of this mixture were thoroughly bulked with a gallon of . corn. This did not in use the germina. tion may to speak of The expense was only about to conts per sers. At the present price of the oil of lemon the expense would be even less. Either of these remedies is recommended, espeefally on black ground, where the uphis is commonly found. J Troop. Chief in Entomotogy, Purdue Agricultural Experiment Station

CLEAN POTATO SEED.

Of Prime Importance in Saving This

Volumble Root Crop. An organized movement is now on in-Wisconsin to secure the cooperation of growers in the planting of only clean pature seed. The soils of Wisconsin have not been found to be in any way affected with such dangers ats black wars and powdery seah, and the leaders in this campaign are deter mined, if possible, to keep such diseases out of the state.

But in common with every other large pointo producing center of the country Wisconsin growers have certain minor difficulties with which to contend Certain of these, however, can be eliminated by enreful field selection or rogular and by bin sorting:

As the planting season approaches it is therefore highly desirable that every grower determine whether his stock meets the present standard. which can be met in part at least by proper selection

Hauling Out Manure. The spreading of barnyard manure as it is produced is the ideal practice to follow under ordinary farm conditions, and it should be much more generally followed than it is It seems difficult for many to realize that every the surface. Try seeds of beans and ton of barnyard manure placed on the soil before it has lost much of its value through exposure to the weather is worth on an average \$2.50 per ton through the increased crops following maintained. This apparatus will give such application. This fact has been conclusively demonstrated by the most careful experimental work.

The Cow, Past and Present.

We should abandon some of our old time notions and study the past and compare the past with the present cow. These we may understand why the present cow needs better care and feeding than did her ancestors.

ALFALFA PROVERBS.

Alfalin is the best soil discrer. and it milds from us to the self-Alfalfa more sestile oil k flow. Affairs is built to resting value

Alfalfa is the greatest of all a sar lungs on and her spelipeday

condition and should be grown on every firm where it can be

Althitis does things and never outs on the Job. With a tair book sokem sonware it seams Affaith him the buy now and

reads the leading that follows: It

while it is protein to the ton

Altimit is the agricultural wou der ar ette enquellette controre. Intioned. Tropy two to three times softeenth go mercer on them on

and is more verticable than buy

PRODUCTION OF HONEY.

Side Line on Most Farms-

Every furmer should raise bees. This is the concession of George A. Denn. | professor of encomology in the Kansas State Agricultural college.

Rees, Recommend to Proposed Dean are custor resource for their chickens. investment thadren in their teens that care for these and will empty dome: it. From eight to differen columbes are the right number for the avecage farm. er, new being usually preferable to a assimilies to other with. For the ordi many farmer beat about the regarded is a necessary side line. Just as are chickens or fruit.

The coming and cost for five colomies

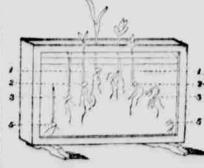
Various kinds of materials have been ! The highest we and among the states. tried with a view to builting something of the Union in honey production is

row at the time the corp was planted ats. Alsibe is also validable, as be Dr. S. A. hecomes of the aid they give in polling

8 HOW TO PLANT SEEDS.

The method of planting seeds has much to do with the results. Needs which are small and fine must not be deeply covered with conth. for if they are the weak germ which they contain | fead. will not be strong enough to reach the | Each hid shall be accompanied by which contain a considerable quentity of stored material, as in the case of pens and beans, may be planted quite

The proper depth of planting can be nicely Illustrated by the device shown



DEVICE SHOWING PROPER DEPTH TO PLANT SEEDS.

which the seeds are dropped and held against the glass. Beginning at a distance of five inches from the top of the glass, place a kernel of corn, on top of this place a layer of earth and continue at intervals of one inch until a series of seeds rest against the glass from five inches below to within one-half inch of peas in like manner and note the abil- tion, ity of the different seeds to reach the surface of the soil when proper moisture and temperature conditions are an idea of the rate of germination at different depths of soil and of the pow er of the different plants to force their way to the light.

The panes of glass of which the device is constructed should, except in times of observation, be kept covered with dark colored blotting paper or by sheets of tin or other light proof mate rial to keep the growing seeds constantly in the dark.

Notice to Contract: rs.

Scaled proposals addressed to the ounty Court of Tillamask County, region, and indersed "Preposals to Complete W. S. Come County Road a accordance with plans and, speci-GRANDON Diereof on rile in the office if the County Clark of Tillamouk Country, Oregon, will be received. In the County Court of said County, at is office, in the Court House, at Otherwish, Girs, Crygon, with the our of markhark A. M. on the 8th by of Max. A.D. rurs, and all that mile and place publicly opened, and

ironed three-mith, and check shall be refuse or neglect to center into the from the date of receiving motion tract is ready for signature,

All buts shall be made on blank

the successful bubbler will be rethree brood arrange a delicate or bords all ful performance of the work, in the sum of to per eens of the entire amount of the but

Each builder shall be required to among broads, by accommunion; the

want could survey.

Upon the deposit of Scools set of west, contract, and bond, may be obassed on the office of the County

The right is reserved to reject any all proposals, or to accept sury proposal or proposals as may be becauch best for Tillimouk County.

By order of the County Court, Dated this 20th day of April, 1915. L.C. Holden, County Clerk

Notice to Contractors.

of the County Cirik of Tillamook lossey, Orogon, will be received by Prepared by Casted States department of its office in the Court House, a Tillamook City, Oregon, until the lay of May, A.D. 1915, and at that time and place publicly opened and

or and light. Large seeds, however, cornfied check on some responsible bank in the State of Oregon, in the sum of 3 per cent of the total hid inclosed therewith, said check shall be made payable to the County Clerk of Tillamook County Oregon, to be held herewith, which consists of two panes as liquidated damages in case the lad of glass placed about one-tailf inch be accepted and the bidder shall fail apart and held in this position by a refuse or neglect to enter, into the wooden frame, the space between the contract, and file therewith the necresary bond for the faithful perfomance of the work, within 5 days from the date of receiving notice from the County Court that the contract is ready for signature,

> All bids shall be made on blank forms furnished for such purpose by the County Court; must state plainly the price of each item of work hid up on and must be signed by the bidder and also state his business address.

The successful bidder will be required to furnish a sucrty bond satisfactory to the County Court for the faithful performance of the work, in two panes being filled with earth into the sum of 50 per cent of the entire amount of the bid.

Each bidder shall be required to satisfy himself, by examination, the location, nature and extent of the work to be performed, and all bids quantities shown on the bidding blanks and as included between Sta-

oo plus oo to Station 24 plus 46.5 of the said road survey,

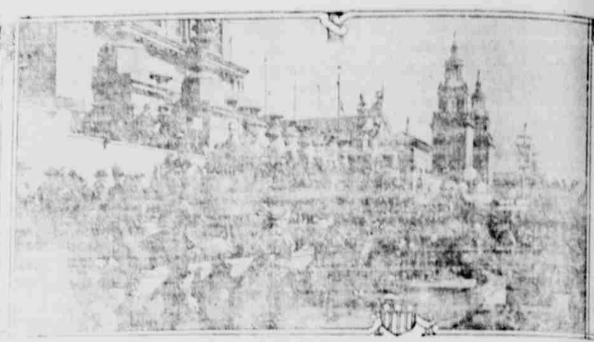
Upon the deposit of \$5.00 a set of plans, specifications, forms for proposal, contract, and bond, may be obtained at the office of the County Clerk.

The right is reserved to reject any or all proposals, or to accept any proposal or proposals, as may be comes best for Thinmook County, Oregon,

By order of the County Court,

resident Charles C. Moore Making the Official Opening Day M.

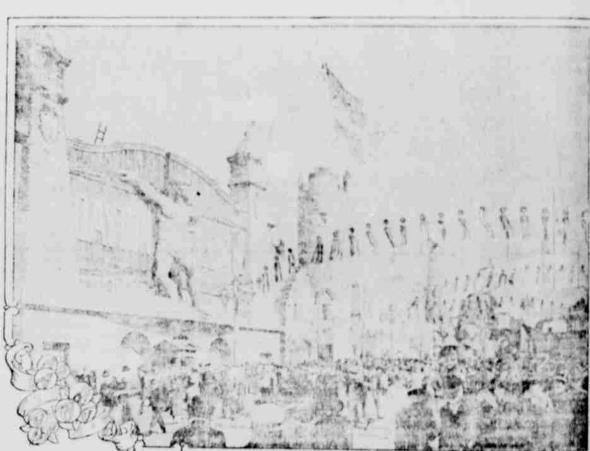
dress at the Panama-Pacific International Exposition Feb. 20



HANDSOME BOOK ON PANAMA CANAL AND THE EXPOSITION FREE FOR THE ASKING.

have book illustrated in colors and dealing with the Panama canal, the Panama-Pacific linera-

Crowds on the Fun Zone at the Panama-Pacific International Exposition



ST crowds throng The Zone, the annuement and concessions section of the Panama Pacific Internation Exposition at San Francisco. The Dayton Flood is shown on the left, the Chinese Village and Torast Grown Up on the right. The Expedition is breaking all world's attendance records

Dated this both day of April, 1915 County-Clerk

Notice to Contractors.

Scaled proposals, addenoual to the County Court of Tillamonic County, Oregon, and indersed "Proposals to complete part of Barocean County Road improvement-

in accordance with plans and speciof the County Clerk of Tillamook County, Oregon, will be received by the County Court of said County, at its office in the Court Home, at Tillamook City, Oregon, until the day of May, A.D. 1615, and of the time and place publicly opened and

Each bid Sall be accompanied by certified eneck on some responsible bank in the State of Oregon, in the sum of 5 per cent of the total hid enclosed therewith, said check shall be made payable to the County Clerk of Tillamook County Oregon, to be held as liquidated damages in case the bid | Scaled proposals addressed to the essary bond for the faithful perfor- Improvement. mance of the work, within 5 days in accordance with plans and specitract is ready for signature,

forms furnished for such purpose by its office in the Court House, at tained the County Court; must state plainly Tillamook City, Oregon, until the Clerk. the price of each item of work hid up hour of 10 o'clock A. M. on the 8th

quired to furnish a snerty hond satis- | Each bid shall be accompanied by a

satisfy hisself, by examination, the Tillamook County Oregon, to be be brution, nature and eatent of the as inquidated damages in case the work to be performed, and all bids be secepted and the bidder shall be are to be compared on the base of refuse or neglect to enter into quantities shown on the hidding contract, and file therewith the st blanks and so rachded between Sea. energy bond for the faithful period

Upon the deposit of \$200 a set of fications thereof on life in the office plans, specifications, forms for propossal, contract, and bond, may be obe forms furnished for such purpose tained at the office of the County the County Court, must state plan Chryle

The right is reserved to reject any on and must be signed by the bid or all proposals, or to accept any and also state his business address hour of to o'clock A. M. on the Sch. Proposal or proposals, as may be deemed best for Tillamook County,

> By order of the County Court, Dated this 20th day of April, 1915. J. C. Holden, County Clerk.

Notice to Contractors.

be accepted and the hidder shall full County Court of Tillamonk County, refuse or neglect to enter jeto the Circums, and fadored "Proposals to are to be compared on the basis of contract, and file therewith the nec Complete Paritie City County Road

from the date of receiving notice fications thereof on file in the office from the County Court that the con- of the County Clerk of Tillamook County, Oragon, will be received by All bids shall be made on blank the County Court of said County, at on and also state his business address.

Time and place publicly open d and proposals, or to accept time and place publicly open d and proposals, or to accept time and place publicly open d and proposals.

factory to the County Court for the err filed shock on acous responsible faithful performance of the work, in bank in the State of Oregon, in the closed therewith, said check shall be

buch higher shall be required to made payable to the County Clen mance of the work, within 5 to from Station 48 plus on to Station og from the date of receiving and from the County Court that the to

tract is ready for signature. All bids shall be made as the the price of each item of work bids

The successful hidder will be quired to furnish a sucrey bond an factory to the County Court for faithful performance of the work the sum of so per cent of the est amount of the bid.

Each bidder shall be required satisfy himself, by examination, a location, nature and extent of work to be performed, and all h are to be compared on the basis quantities shown on the bids blanks and as included between S

oo plus oo and Statoin 43 plus 60 the said road survey, also Station plus oo to Station 34 plus 29.2 of a tention of said survey.

Upon the deposit of \$5.00 a set plans, specifications, forms for posal, contract, and bond, may be tained at the office of the Coul

The right is reserved to reject deemed best for Tillamook Cou Oregon,

By order of the County Court, Dated this 20th day of April, 1915

J. C. Holden, Charles