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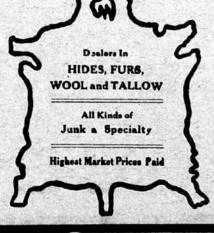
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5-Tree roots uncovered, preparatory to transplanting, showing how

TREE ROOTS.

of the most vital parts of a tree is its roots. It is not known where the roots do their feeding. In Pig. 5, which is a photograph of a the wheat shows great deficiency in moving, the roots are seen spread the corn, and this deficiency increased in all directions and quite near with the depth, until at the tenth foot

That the tree needs moisture goes without saying. How is the tree with to rects just below the grass roots to tts moisture where the rainfall is inches or less? The grass pole being nearest the surface get of the curve, at least five feet more. first chance at the moisture and | tree suffers; this explains why ere are no trees on the prairie where the rainfall is less than twenfr inches. Trees can, however, be made to grow, and grow fast in this section, by cultivating the soil over the roots so that the tree gets all the moisture that falls. The cultivation must extend out quite a ways as the poots extend out farther than the

Mulching with straw can be used instead of the cultivation. Use clean Mraw. Manure is apt to stimulate late growth, which keeps the tree som properly ripening up its new wood in the fall. Weeds will also start quicker in the manure.

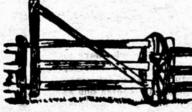
The illustration-study it. The roots have been uncovered to quite a distance yet less than half their length has been dug out. The feeding roots ere the tiny new root fibers and not the feeding of a tree takes place at the end of the roots.

The secret of tree growing on the prairie is giving the tree all the moisthat falle over its roots and the to do it is to keep grass and weeds from growing over the tree roots, which can be done by cultivatmg or mulching.

NEBRASKA GATE ON WHEELS.

Prise Device).

farm gate which differs from the ordimary gate in that there is a buggy wheel attached, on which the end of seen that the loss of water amounts the gate rests. This wheel makes the gate much easier to open and close. A



Fine for a heavy gate.

single bar or latch can be run through the spokes of the wheel, from the end e. to hold the gate shut.—Helmer M. Hagberg, in Nebraska Farm Jour-

Ration For Growing Pige.

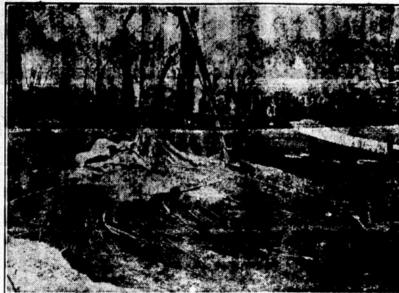
A good ration might be made by seing two parts by weight of corn and is an important matter. In level me part each of ground rye, ground eats and ofineal. For little pigs the there is little opportunity for choice, sals should be ground fine enough so but in rolling sections one may disthat the hull is reduced to meal! If oriminate. By observing the spots this cannot be done it would be better that the native trees and shrubbery to sift the hulls out for a time after fed as much of this mixture as they will eat, but should be fed rather limited quantities up to five or six months of age. After six months of age, if the pigs are to be fed for market, the oilmeal might be omitted.

The Prefitable Dairy Cow.

Don't allow that old reprobate of a cow to foel you by giving a profuse will enable one to select a site having flow of milk for five or six months, some protection, good atmosphere then going dry. It's the cow that drainage and the proper soil.

South slopes are too dry, the from seven to nine months in the year too hot there and the drying process that you can safely bank on as a altogether too active. They should rollable member of your dairy herd. be avoided.

A Most Vital Part of the Tree.



near the surface the roots are and how far out the roots extend.

Moisture With Continuous Cropping.

L. R. Waldron, Superintendent Dickinson Sub-Station.

moisture content, foot by foot, to a depth of ten feet on the spring plowed corn and wheat plats, A. Plat A of which is being dug preparatory moisture, compared with Plat A of the corn plat contains 9 per cent more moisture than the wheat plat. The chart plainly shows that the growing of corn every year has allowed the water to penetrate to a depth of ten feet, and, judging from the appearance

In the case of the wheat plat, no moisture has been lost by percolation beyond the reach of the roots, while in the corn plat, water has been lost in this manner; how much, cannot be

The amount of water used by the corn crops for the four years of growth, plus the amount found in the soil indicated by the chart, equals

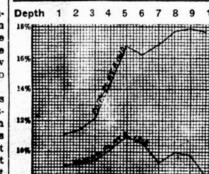


FIG. 3-Shows relative per cents of moisture for each foot to a depth of ten feet as determined in the fall of 1910 upon Plats A, continuous crop, spring plowing, for the two crops, wheat and corn.

about forty-one inches. The amount used by the growing wheat orops grown upon the plats, plus that found in the soil shown on the chart, Mr. Editor: I have a very useful amounts to forty-six inches. As the rainfall since the land was broken amounts to about eighty inches, it is to from 55 to 60 per cent. The loss has been greater in the case of the corn plats than in the wheat plats. The extra loss incurred in the corn plat is evidently due to the sinking of the waters to a depth greater than ten feet. The loss of some forty-four inches of water from the wheat plat may be accounted for by the natural run-off, by evaporation at other times than during the growing season, by drifting snow that did not find lodgment upon the plat, by light showers that evaporated without having preduced effect upon growth, and by other possible causes.

post of the gate to the end post of the LOCATION OF THE ORCHARD

Matter.

Since the atmospheric conditions are largely influenced by the contour of a country, the selection of a site stretches like the Red River valley,

select, one may come to a very easy weaning. All of the ground feeds and correct solution of this point. would be better if they could be Even in the arid portion of the state ground fine. The pigs should not be thrifty shrubs will be found growing toward the bottom of the north side of the hills and buttes. It is not well to plant too low down on the hillsides for the cold air settles there, increasing the danger from late frosts. Too near the top of the slope the soil e often dry and thin and the exposure needlessly great.

A little intelligent study of the land

South slopes are too dry, the sun is

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