

CONCERNING WINDMILLS.

NOTICE TO CONTRACTORS.

Office of the Board of Water Works, Deseret City Hall, Salt Lake City, Utah.

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The devices for operating pumps for irrigation upon the great plains windmills are the most important, and the best. It is well to note from the fact that the winds blow almost all the time over this vast country. The forms of windmill are many, but for the purpose of raising water for irrigation the available types are comparatively restricted. It is impossible to recommend specifically any of them, but the farmer intending practice irrigation must endeavor to ascertain what kind of windmill he will need, and so from the fact that it is a windmill only as great, it will not be greater, part out of butter fat.

Hoard's Dairyman.

Several small and feed cutters have also found shredding attachments which can be affixed and used to sift the carcals after they have been cut off. In



NOTICE OF THE DILIGENCE ATTACHMENT.

The device here shown is a style of feeding hopper, which is the rounded upper part, and sift to the right of the wheel. The length of the hoppers of feeders are 3 to 6 inches, and the shredding knife is ground fine and coarse, as desired.

Begin on Dairy Farmer and Cow.

The very foundation of success in dairying is not the creamery or cheese factory, or any of the secondary aids and advantages that have clustered about it, but it is the dairy farmer and his wife. When the first cost of a windmill with a wheel 8 feet in diameter and suitable pump placed at a depth, say, of from 20 to 40 feet from the surface, can be had complete for \$170 to \$125, a 12 foot mill will cost from \$100 to \$100, and a 10 foot mill from \$75 to \$90. The cost of the individual items need not be ascertained from detailed descriptions.

It is, as a rule, wise in procuring an irrigating plant of this character to purchase a moderate sized or small wheel at first, this being properly proportioned to the size of the pump and the amount of water to be had. If the farmer is successful with this smaller machinery, he can readily supplement his equipment at a later time. The windmill is a piece of machinery which with moderate care and the use of common sense in keeping it oiled and properly adjusted will last for many years.

As a general rule the fast running windmills with back gearing are most successful. In these the pump rod is not connected directly with the shaft of the wheel, but by a gear or two, or even three, which is interposed between the wheel and the pump, resulting in a much slower speed of rotation.

It has been authoritatively stated that "the cost of pumping the greatest quantities of water used in irrigation prohibits the raising of water to heights of much over 50 feet." There are exceptions to this rule, especially in the case of windmills and hydraulic engines or water wheels.

SOME CURIOSITIES CONCERNING GROWING CHILDREN.

Scout's Emulsion of Coal Tar with Iodine.

See the results of the following experiments:

NOTICE.

NOTICE TO HERBERT GRIFFITHS THAT THE 12TH CONVENTION OF DIRECTORS WILL BE HELD ON NOVEMBER 20TH.

The 12th Annual Convention of the Knights of Pythias, will be held on the 20th of November, 1897, at the Hotel Colorado, in the city of Denver, Colorado, for the transaction of business, and for the election of a new convention president for continuing a semiannual interest on their funds deposited in the Knights of Pythias bank, in Denver, District No. 1, and in accordance with the notice of intent published above.

DAVID H. MEYER.

Salt Lake City, Utah, November 17, 1897.

New York Stock Exchange, with the exception of the New York Stock Exchange, Salt Lake City, Utah.

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LEWIS M. CANNON.

Secretary.

No. 2 South, East Temple St., Salt Lake City, Utah.

Dated Nov. 18th, 1897.

ASSESSMENT NOTICE.

Burke Mining Company, situated on prime place of business, No. 14, West Main Street, Salt Lake City, Utah.

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