Stock Must Have Plenty of Water

#### Supply Should Be Warmed in Cold Weather to Produce Gains.

Thirsty stock do not get fat, while dairy cows require four pounds or more of water for every pound of milk which they produce. Where the drinking water is tempered with a tank heater, faster gains and more economical production will result during the winter months, says the Missouri Farmer. There is also a saving in feed, for when large quantities of cold water are consumed at one time considerable heat is required to bring this up to body temperature. Nearly every one has seen dairy cows hump up their backs and shiver on a cold day after drinking ice water from a stock tank and it is not to be expected that such an experience is conducive to profitable production. One member of a dairy herd improvement association found that his cows made an average gain of 5.6 pounds of butterfat a month following the purchase of a heater. At the Iowa experiment station it was found that fall pigs given water from an automatic waterer, kept from freezing with a kerosene lamp, showed an increase in profit of 17 per cent as compared to pigs given water in open troughs. Gains were increased by 5 per cent and the feed requirements were reduced 10 per cent, due to water being available at all times. Stock tanks should be banked and covered during the winter and it is also recommended that gravel or cinders be placed around both the tanks and waterers to prevent accidents due to slipping on icy yards.

#### Modern Farm Machinery Calls for Large Fields

Loss of time and labor often results where fields are small and cut up by unnecessary barriers. Where two-row cultivators are replacing one-row tools, or tractor outfits are taking the place of horse-drawn equipment, as is the case on many farms, operators find that they cannot secure greatest efficlency from their new equipment if fields are smaller and more irregular than 'is necessary.

J. F. Dowler, rural economist at the Ohio State university states that larger fields are better adapted to modern farm machinery, and make possible savings in labor and other operating costs. A three-year study on 23 farms shows that a ten-hour day is required to plow 1.7 acres with a 14-inch plow in fields of less than six acres. In the same time two acres may be plowed in fields of between six and twelve acres, and 2.2 acres in fields of more than 12 acres.

#### THE CENTRE REPORTER, CENTRE HALL, PA.

**ORDER RETURNS TO ITS ANCIENT HOME** 

# in Jerusalem.

Rising like a stalwart sentinel from one of the hills of the Holy City stands a structure which turns back the flight of time more than 800 years.

It is the shelter which houses the Order of St. John of Jerusalem, founded about the year 1090 for the protection of pilgrims coming to the Holy land to visit the holy sepulchre. Driven from the city by the Saracens in 1187, they have returned after eight centuries of persecution and vicissitudes, and are once again carrying on here the service for which they were organ-Ized.

For the Knights Hospitallers, as they were then called, built in the Eleventh century an establishment known as the hospital of St. John, which besides being a shelter for pllgrims, provided accommodations for lodging and caring for the unfortunate and infirm.

Having as their motto, "Pro Fide, pro Utilitate Hominum," the Order of St. John of Jerusalem was one of the first of the various orders of chivalry and was in character partly religious and partly military.

der Saladin, conquered Jerusalem, the knights were turned out and fled to Acre which later, after Richard Coeur de Lion had conquered it, became known as St. Jean d'Acre. Here the knights established themselves and the city became the most important stronghold of Christianity in the East.

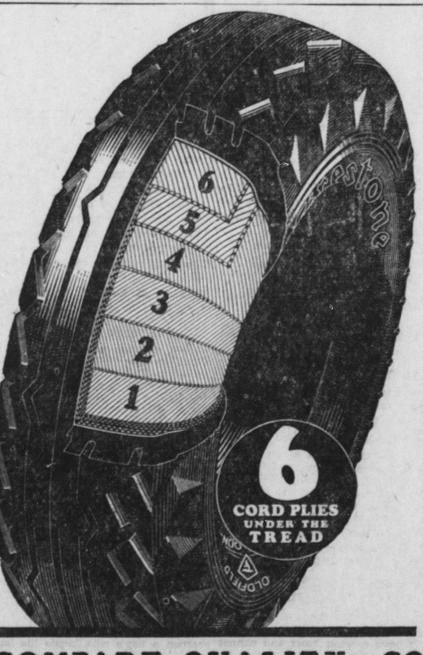
years until they again came into conflict with the Saracens, and after suffering heavy losses, were turned out. This time they fled to them to found a convent and hospital-the chief house of the order in Cyprus and the castle of Kolossi which exists to this day.

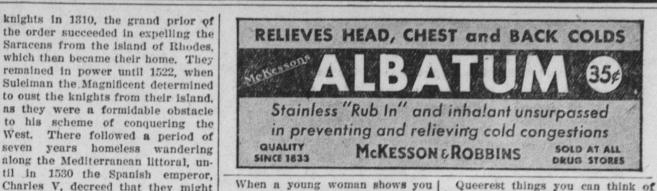
Seeking a permanent home for the spanked for at two.

Mr. Husband-Oh, so they had a fire at the delicatessen? It is hard to tell which there is Cyprus, where the king allowed the more delight in: Neglecting what one ought to do or doing it.

Farmer.

Even a baby learns that what was





newly taken photographs of herself, can make money in a city. For don't make the mistake of not ask- there are plenty of the queerest ing for one. kind of people in a million.

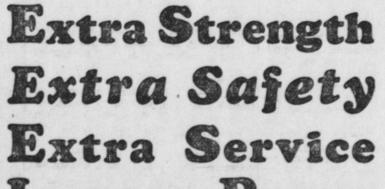
## For STRONG BONES and TEETH

Now is the time to help your children build strong bones and healthy teeth. The wealth of Vitamin D-and the mineral salts-in Scott's Emulsion of Cod Liver Oil, will help you do this. And doctors recommend its Vitamin A content too. This promotes growth and increases resistance to disease. Scott's Emulsion is also good for expectant mothers and run-down adults. It helps ward off colds. Pleasantly flavored. Easy to take. Scott & Bowne, Bloomfield, N. J. Sales Representatives, Harold F. Ritchie & Co., Inc., N. Y.

LISTEN TO Scott's Emulsion "Romances of the Sea" every Sunday and Tuesday at 9.30 P.M. (E. S. T.) over the Columbia basic network.



Satisfaction of paying a debt is | Going without his supper is ten "cute" when it was a year old it gets often nearly overcome by the size of times the punishment to a boy that the debt. It is to a man. Think of that.



of knights.

Clerkenwell,

When in 1187, the Saracens, un-

The knights remained for 100

gets stiff in the legs or sore in the feet and he does not gain in weight as he should. Pigs that have been carried thus far through the winter mainly on cereal grains should, by all means, now have some leafy alfalfa or clover hay.-Exchange.

Proper Fences Mean

**Owner Who Neglects Them** 

Is Called Unwise.

Good fences are an asset to the

farm. There is satisfaction in know-

ing that live stock is going to stay

where it is put, and that strays will

be kept out. This assurance means

money in the pocket, as well as avoid-

ing the nuisance of chasing after ani-

mals that are out of place. A well-

fenced farm also offers added induce-

ment if sale is desired. There is noth-

ing more discouraging to a prospective

buyer than ramshackle fences. Even

though the land may be good, he im-

mediately sees a lot of troublesome

and expensive work in getting it

fenced. Formerly our chestnut woods

supplied plenty of durable material for

rails and posts. But the chestnut is

gone, and the labor to get it out too

expensive anyway. In place of the

rall fence we now find increasing use

of woven wire and steel posts, quickly

put up, holding the stock and doing

away with the old fence harbor for

weeds and bushes. Defects in the

wire making of a score or more years

ago have been overcome, so that pres-

ent-day wire fence is lasting .-- Rural

May Be Due to Rickets

Each year we get some inquiries

concerning the cure for lameness,

soreness, unthriftiness in fall pigs.

Right away we suspect these plgs as

having rickets. Their owners should

be more concerned about the cause of

The cause of rickets is improper

feeding by which we mean not enough

of the right kind of minerals and vita-

mins in the ration-too much corn,

barley, oats, middlings, and such like

and not enough skimmilk and alfalfa

or clover hay or their meals. A plg

will stand an improperly constituted

ration for awhile without apparent ill

effects, but sooner or later his assimi-

lating function goes wrong and he

this condition than about its cure.

Unthriftiness in Pigs

New-Yorker.

Much to the Farm

### Windmills Compared

In construction and consequent amount of work it will perform, the windmill of today is indeed far superior to its early ancestor. That is probably one of the fundamental factors which allows it to remain on our list of modern equipment.

Many of the general objections to e old windmill have been removed of

the order succeeded in expelling the Saracens from the Island of Rhodes, which then became their home. They remained in power until 1522, when Suleiman the Magnificent determined Knights Hospitallers Back to oust the knights from their Island. as they were a formidable obstacle to his scheme of conquering the

West. There followed a period of seven years homeless wandering along the Mediterranean littoral, until in 1530 the Spanish emperor, Charles V, decreed that they might

settle in Malta. Here they built the city of Valetta which became a city A branch of the Knights Hospi-

tallers had existed in England from the Eleventh century, having as their headquarters a priory in Clerkenwell, London. From all available accounts, this priory must have been a fine example of Thirteenth century architecture, but unfortunately the only remains of the original building today are to be seen in the crypt of the church of St. John in

When Henry VIII dissolved all religious orders, the knights were again disbanded. Queen Mary reassembled them, but only for one year, as on the succession to the throne of her sister Elizabeth the order was again dissolved.

Nothing further is heard of the knights in England until 1878, when Queen Victoria again reinstated the order by granting them a fresh charter.

'Nuf Sed

"Yes, he's conscientious even about

paying his dental bills."-Wallace

Aha!

is a bit burned tonight, dear.

Mrs. Wife-I'm sorry, but dinner

"You say he is a good man?"

Lime Phosphate Valuable

When manure is available and can be systematically used, it is an excel lent plan to mix lime phosphate with it. Manure being made largely from hay, straw and stalks, it is a good form of fertilizer for the production of hay, straw and stalks, but is unbalanced in food elements for the production of grains, as there is too wide a ratio between nitrogen and phosphorus. The continuous use of manure tends further to widen the ratio between phosphorus and nitrogen, and the tendency is to increase the growth of stalk and straw without a proper amount of grain formation. The addition of lime phosphate to manure tends to overcome this condition ,and with other factors favorable it will materially increase the proportion of grain to straw or stalk without largely increasing the total growth of the stalk and straw .--Exchange.

Heavy Cholera Losses

Hog cholera has destroyed more hogs in the United States than all other diseases combined, according to the United States Department of Agriculture. It is explained in a new Department of Agriculture bulletin, 834-F, that the disease may be prevented by immunization, sanitation, proper feeding and shelter. Hog cholera is found in all states in the country, but is most prevalent in the Middle West and South, according to the bulletin, The disease is usually the most serious during the months of October and November.

Farm Forestry Pays One-third of all farms in the United States yield as much as \$220 worth of timber per year, the Department of Agriculture says. An exhibit from the forest service shows that the annual farm forest crop is worth \$395,-. 000,000. Timber not only pays in dollars and cents, but it is like a bank account upon which the owner can draw in times of stress. Its 'uses range from farm buildings, telephone poles, repairs, and fuel on the farm, to waw logs, cross-ties, pulpwood, posts and poles.

Mineral Mixture for Swine

The fisual rations fed to hogs in the winter months are short of mineral elements. Good hog feeders realize this and include some mineral mixture in their feeding schedule. The following is recommended by Professor Coffey of Ohio university: Forty per cent of ground limestone, 40 per common salt. When fed with the grain ration this mineral mixture hogs have access to it at all times. per cent.

late years and we find this machine capable of filling power needs where it was heretofore incapable. Newer windmills do not have to be oiled as frequently as did old ones. They run smoother, furnishing a smoother power to the pumps or other machines they drive.

It took a great deal more wind to operate the old type machines, and they were consequently incapable of operating in many places where we have machines operating successfully today.

#### Cause of Black Heart

The usual causes of black heart are piling potatoes too deep or putting. them in bins where there has been no circulation of air and maintaining too high a temperature in the storage place. Where potatoes are kept at temperatures below 45 degrees Fahrenheit they can be piled as deep as 6 feet without danger of injury but where the temperature is likely to be 50 degrees or above, as is the case in some cellars, it is not safe to pile them more than 3 feet deep if they are to be kept longer than three or four weeks.

### Agricultural Hints

An advertisement in your newspaper is a short cut from your farm to the consumer.

Kansas growers produced 40 pounds of apples this year for every person in Kansas.

Grease is better than oil for protecting plowshares from rust when they are stored for the winter. . . .

No evidence of the destructive alfalfa weevil is found on the eastern slope of the Colorado Rockies, reports J. H. Newton, deputy state entomologist with the Colorado Agricultural college. . . .

Either four or five horses hitched tandem on 12 or 14-inch bottom gang plow, driven by one man, will turn more land than two walking plows, according to agricultural engineers at the Ohio State university.

One way to help reduce farm costs is to produce as much of the family living on the farm as possible.

Legumes are good for the farm, and thus good for the farmer. Every crop rotation should include one of the clovers.

. . .

Feeds fairly high in fiber do not cent of bone meal and 20 per cent of give satisfactory results for fattening pigs unless combined with other feeds low enough in fiber to bring fiber can be put in a self feeder where the content of the mixture to less than 5.5

# LOWEST PRICES

JNLY Firestone can give you all these extra values. They are the result of patented construction features found in no other tires.

Gum-Dipping penetrates every cord and coats every fiber with liquid rubber. Gives longer flexing life to every cord and longer tire life.

Two Extra Cord Plies Under the Tread give stronger bond between tread and cord body - greater protection against punctures and blowouts.

Tough, thick tread made of non-oxidizing rubber gives better protection against skidding and longer nonskid wear.

Firestone save in buying, manufacturing and distribution to give these extra values at lowest prices.

Firestone Service Stores and Service Dealers invite you to check these statements for yourself. They have sections cut from Firestone and Special Brand Mail Order Tires. Compare them and see how Firestone give extra strength, safety and service. You be the judge. Drive in today.

## **COMPARE QUALITY · CONSTRUCTION · PRICE**

| MAKE OF<br>GAR  | TIRE<br>BIZE | Fire-<br>stone<br>Oldfield<br>Type<br>Cash<br>Price<br>Each | # Spe-<br>cial<br>Brand<br>Mall<br>Order<br>Tire | Firestone<br>Gidfield<br>Type<br>Cesh<br>Price<br>Per Pair | Fire-<br>stone<br>Sentinel<br>Type<br>Cash<br>Price<br>Each | #Spe-<br>cial<br>Brand<br>Mail<br>Order<br>The | Firestone<br>Sentinel<br>Type<br>Cesh<br>Price<br>Per Pelr | MAKE OF   | TIME<br>BAZE                                     | Firestena<br>Oldfield<br>Type<br>Cash<br>Price<br>Each | #Spe-<br>cial<br>Brand<br>Mall<br>Order<br>The | Firestone<br>Oldfield<br>Type<br>Cesh Prio<br>Per Pair |
|---|--------------|---|--|--|---|--|--|---|--|--|--|--|
| Ford  | 4.40-21      | 4.98  | 4.98   | 9.60   | 4.35  | 4.35   | 8.50   | Buick-M.<br>Olds'ble.<br>Auburn                                     | 19.25-18   | 7.90   | 7.90   | 15.30  |
| Chevrolet.  | 4.50-20      | 5.60  | 5.60   | 10.90  | 4.78  | 4.78   | 9.26   | Jordan<br>Reo   | 5.50-18  | 8.75   | 8.75   | 17.00  |
| Ford  | 4.50-21      | 5.69  | 5.69   | 11.10  | 4.85  | 4.85   | 9.40   | Gardner.<br>Marmon.<br>Oakland.<br>Peer less.                       | 5.50-19  | 8.90   | 8.90   | 17.30  |
| Ford<br>Chevrolet<br>Whippet                                | 4.75-19      | 6.65  | 6.65   | 12.90  | 5.68  | 5.68   | 11.14  | Stud 'b'kı<br>Chryaler,<br>Viking,<br>Franklir                      |  | 11.20  | 11.20  | 21.70  |
| Erskins<br>Plymo'th   | 4.75-20      | 6.75  | 6.75   | 13.14  | 5.75  | 5.75   | 11.26  | Hudson<br>Hup'mb<br>LaSalle   | 6.00-20  | The second second                                      |  | 1.000  |
| Chandler<br>DeSoto<br>Dodge<br>Durant<br>Gra'm-P<br>Pontiae | 5.00-19      | 6.98  | 6.98   | 13.60  | 5.99  | 5.99   | 11.00  | Packard.<br>Pierce-A<br>Stutz.<br>Cadillac.<br>Lincoln.<br>Packard. | 6.00-21  | 13.45  | 13.45  | 25.40  |
| Roosevelt<br>Willys-K                                       |              |   |  |  |   |  |  | TR  | UCK and  | I BUS  | TIR  | ES   |
|   | 5.00-20      | 7.10  | 7.10   | 13.80  | 6.10  | 6.10   | 11.90  | SIZE<br>H. D.   | Firestone<br>Otdfield Type<br>Cash Price<br>Each | Specia<br>Brand Mr<br>Order Ta                         |  | Firestone<br>Stield Type<br>esh Price<br>Per Pair      |
| Esser<br>Nash<br>Olds'ble_                                  | 5.00-21      | 7.35  | 7.35   | 14.30  | 6.35  | 6.35   | 12.40  | 30x5<br>32x6  | \$17.95<br>29.75                                 | \$17.9<br>29.7   | 5  | 34.90  |
| Bulek   | 5.25-21      | 8.57  | 8.57   | 10.70  | 7.37  | 7.37   | 14.52  | 36x6<br>6.00-20   | 32.95  | 32.9<br>15.2   |  | 63.70<br>29.90   |

| and and an an at                | 4.75-1                        | 9 Tire                                 | 4.50-21 Tire                  |  |  |
|---------------------------------|-------------------------------|--|-------------------------------|--|--|
| Firestone<br>Give You           | Firestone<br>Oldfield<br>Type | *A Special<br>Brand Mail<br>Order Tire | Firestone<br>Sentinel<br>Type | *A Special<br>Brand Meil<br>Order Tire |  |
| Mere Weight,                    | 18.00                         | 17.80                                  | 17.02                         | 16.10                                  |  |
| More Thickness,                 | .658                          | .605                                   | .598                          | .561                                   |  |
| More Non-Skid<br>Depth, inches. | .281                          | .250                                   | .250                          | .234                                   |  |
| MorePliesUnder<br>Tread         | 6                             | 5                                      | 6                             | 5                                      |  |
| Same Width,<br>inches           | 5.20                          | 5.20                                   | 4.75                          | 4.75                                   |  |
| Same Price                      | \$6.65                        | \$6.65                                 | \$4.85                        | \$4.85                                 |  |

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