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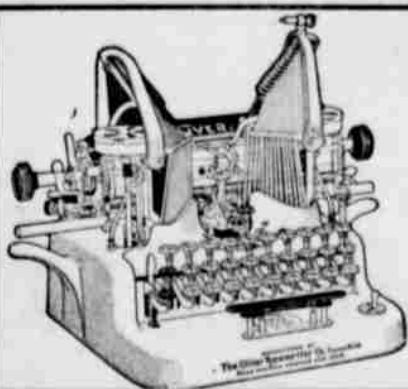
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The greatest fuel economy in the kitchen stove which consumes soft coal can be had with frequent replenishing and in small amount.

France keeps fifteen times as many sheep as the United States, and this fact has without doubt much to do with the thrift and wealth of the French people.

A piece of farm machinery left out in all kinds of weather will do well if it lasts five years. Its term of usefulness may be trebled if it is housed properly when not being used.

The feeding of beef steers appears to be a good deal less of a speculation with corn at 20 cents and beaves afoot worth 7 cents than it was with corn at 60 cents and steers at 10 cents.

A Minnesota lad of the name of Vernon Adams raised an acre of corn the past year which yielded 113.5 bushels, and this in spite of the fact that Minnesota is not in the corn belt.

Give old Riddy two or three weeks of fine weather most any time during the winter and she'll do more to smash a corner in the egg market than any anti-monopoly legislation that could be adopted.

A sprig of parsley, rooted and started in a pot and given a place with the other house plants, not only makes an attractive foliage, but will furnish garnishing for the salads and cooked dishes during the winter.

While the donor is not a member of the party which elected Governor Wilson as president, William Galloway, the big Waterloo (Ia.) manufacturer, has announced that he will give a \$5,000 cow to President Wilson to supply his household with pure milk.

Not only the furniture of the home, but the hands and faces of its inmates, will be in better condition for keeping a dish of water simmering on the hard coal stove or a pall of it suspended from the furnace register. The kettle on the kitchen stove answers the purpose there.

A scientist, Professor Granger, who has been making geological explorations in Wyoming, has discovered the remains of what he claims is the largest bird that ever frequented the American continent. The bird is supposed to have inhabited the country some time about 3,000,000 years ago.

Invariably a flock of hens will seek that spot in their yard during cold weather which is sheltered from north winds and which is also exposed to the sun. These are the chief advantages of the scratching shed and are practically a necessity if one is to get eggs during the winter months.

A full grown rat will consume a dollar's worth of grain and vegetables in the course of a year and oftentimes destroy or ruin in the same period property of many times the amount mentioned. It is because of this fact that the rat campaign is a vital and important one and that every one who can should have a hand in it.

Somebody has predicted the early collapse of the corner on eggs and that by Feb. 1 they will be retailing at 10 cents per dozen. Of course this is some consumer's pipe dream, but the unloading of a slather of cold storage eggs in Chicago the other day at a loss of 2 cents per dozen from the purchase price would seem to indicate that the business has been overdone and that by the date mentioned the storage fellows will be running for cover.

The making of milk from hay by what is called the synthetic process has not been developed to the point where the person who has laid by a little savings fund would be justified in buying stock in any company purporting to manufacture the new product. Fellows who are engaged in the selling of such stock are not half so much interested in making milk out of hay as they are in getting hard cash out of blue sky and gullible suckers. Better steer shy of them.

There should be charcoal before the hogs all the time. The supply may be made from corn cobs. These may be burned in a pit, which should be three or four feet wide, three feet deep and eight or ten feet long. A load of cobs should be put in the pit and set afire. As soon as they are well ablaze the pit should be covered with strips of sheet iron and the cracks covered with earth so as to exclude the air. In a day or two the pit may be uncovered and a supply of charcoal will be ready for use.

## SILAGE FOR PREGNANT EWES.

While corn silage has been recognized as an excellent as well as economical ration for the beef steer and dairy cow, not until recently has it come to be viewed as a valuable part of the ration for breeding ewes. Some feeding experiments conducted by the Iowa station along this line during the winter of 1911-12 will be of interest to farmers who have a flock of sheep and silage, but who have not yet got the two together in a feeding trough. In the experiments conducted forty-eight ewes were divided as to general condition, including breeding, thrift and weight, into four equal lots. Lot 1 was fed clover hay and shelled corn; lot 2, alfalfa hay and shelled corn; lot 3, clover hay, corn silage and shelled corn; lot 4, corn silage and shelled corn. All the ewes had a blue grass pasture in the fall and were given besides a fairly liberal allowance of corn and cottonseed meal. They were divided into the separate lots on Nov. 15 and given the rations mentioned above. At the end of the feeding period it was found that the ewes in the four lots had made practically identical gains. It was found that, while the lot of ewes fed corn and corn silage produced fewer lambs than the other three lots, the lambs weighed more at birth and were also stronger. It was found that the alfalfa combination produced stronger lambs than the clover and that silage and clover fed together did not give as good results as either one alone. The chief advantage of the silage-corn ration given to lot No. 4 seems to be found in its cheapness, as it cost 1.03 cents per ewe per day, while the ration given lot No. 1 cost 2.47 cents; lot No. 2, 2.74 cents, and lot No. 3, 2.03 cents. Those in charge of the experiments are of the opinion that the corn-silage ration might be made more efficient and economical if a small amount of oil meal or cottonseed meal were added to it. The modified ration would also tend to produce stronger lambs.

## TO GET CAPACITY OF ROUND CRIBS.

Some of our readers may have round slat corner cribs, the contents of which they would like to measure. The first step in getting the desired result is to ascertain the contents in cubic feet. This is got by multiplying the diameter by itself, this by the decimal fraction .7854 and the product by the depth of the crib in the crib. For illustration, suppose one wished to find the number of bushels in a circular crib having a circumference of sixty-four feet and a depth of nine feet. To get the diameter divide the circumference by 3.1416, the result being 20.3 feet. Squaring or multiplying this by itself gives 412.09 square feet, and multiplying this by .7854 gives 323.65 as the area of the crib. The contents are then obtained by multiplying the area by the depth, nine feet, which gives 2,912.89 cubic feet. A bushel of corn containing a good deal of moisture is usually estimated at 2.5 cubic feet, and dividing the total contents in cubic feet by this figure gives 1,165.15 as the number of bushels in the crib. The same formula will give the contents of any circular crib where the circumference and depth are known.

## BALANCED RATIONS FOR FOLKS.

We hear a good deal about balanced rations for cattle, hogs and sheep, but might little about balanced rations for human beings, yet the question is one of vital importance. There are thousands upon thousands of folks in America—and the number is immeasurably greater in Europe and the Orient—who lack in strength and vitality and power to work simply because they do not have a sufficient amount of food of the proper nutritive elements. In many such cases folks are listless and lifeless and do not realize what is the matter with them. Likely the trouble is due to too much fat and heat producers and not enough bone and muscle formers. The writer knows of a number of families in which members are dumpy or unstrung and nervous when what is needed is not more tonic, but more eggs, fresh milk, beef, beans, cheese and fish, all of which articles are high in protein content. These foods cost money, but in the long run they are cheaper than too much in the way of sweets and pastries of one kind and another, with doctors' bills tacked on.

## FOR THE ICE SUPPLY.

It is time to make plans for next summer's supply of ice, and the preparations need not be elaborate. Where the ice is taken from a body of pure water it may be used in summer drinks, but the supply need not be from a pure water supply to be useful for purposes of refrigeration. While sawdust is preferable for a packing material, fine chopped straw or hay or chaff from the haymow will answer the purpose very well. The building chosen for the icehouse should be so situated that it can be drained easily. In packing the ice a space of eighteen inches or two feet should be left between the body of ice cakes and the sides of the building, and this space should be filled with the packing material. Spaces of a width of about an inch should be left between the cakes as they are tiered up. When all the ice is in place the sawdust or other covering should be spread over it so as to cover it completely. The space in the house above the ice should be kept well ventilated.

*J. E. Trigg*

## SUMMONS

In the Circuit Court of the State of Oregon for the County of Hood River.  
Manning L. Howard, Plaintiff,

vs.

Adolph Grodt, Bertha Grodt, Christian Frederick Grodt, Doris Grodt, Kahl, Dora Grodt, Dorothy Grodt, Emma Grodt, Frederick Grodt, Frederick Grodt, Gustave Grodt, John Grodt, John Ditlef Grodt, Johann Ditlef Frederick Grodt, Johanna Dorethea Grodt (insane), W. Wulf, guardian of Johanna Dorethea Grodt, Neta Grodt, William Grodt, William Grodt, John Kahl, the unknown heirs of Charles Grodt deceased, and also all other persons or parties unknown, claiming any right, title, estate, lien or interest in the real estate described in the Complaint herein, Defendant.

To Adolph Grodt, Bertha Grodt, Christian Frederick Grodt, Doris Grodt, Kahl, Dora Grodt, Dorothy Grodt, Emma Grodt, Frederick Grodt, Frederick Grodt, Gustave Grodt, John Grodt, John Ditlef Grodt, Johann Ditlef Frederick Grodt, Johanna Dorethea Grodt (insane), W. Wulf, guardian of Johanna Dorethea Grodt, Neta Grodt, William Grodt, William Grodt, John Kahl, the unknown heirs of Charles Grodt, deceased, and also all other persons or parties unknown, claiming any right, title, estate, lien or interest in the real estate described in the Complaint herein:

In the name of the State of Oregon, you and each of you are hereby required to appear and answer to the complaint filed against you in the above entitled suit on or before the expiration of six weeks from the date of the first publication of this summons, which date is hereinafter stated, and if you fail so to answer or appear for want thereof, the Plaintiff will apply to the Court for the relief prayed for in his Complaint, to-wit:

For a decree determining all claims adverse to Plaintiff which you or either, or any of you may have or claim to have in any right, title, estate, lien or interest in that land situated in the County of Hood River, State of Oregon, described as follows, to-wit:

The Northeast quarter (NE $\frac{1}{4}$ ) of the Southeast quarter (SE $\frac{1}{4}$ ) of the Southwest quarter (SW $\frac{1}{4}$ ) of Section 14, Township 2 North of Range 10 East of the Willamette Meridian.

That by said Decree it may be declared and adjudged that you or either, or any of you have no right, title, estate, lien or interest whatever in or to said land, or any part thereof, and that the Plaintiff is the owner of the title to said land, and to every part thereof, in fee simple; that you and each of you be forever enjoined and debarred from asserting any claim whatever in or to said land adverse to Plaintiff; and that Plaintiff may have such other relief as to the Court may seem equitable.

You and each of you are hereby served by the publication of this summons in accordance with an order made by the Hon. G. R. Castner, County Judge of Hood River County, Oregon, duly made and entered in the above entitled cause, on the 23rd day of December, 1912, which order prescribes that you and each of you shall appear and answer said Complaint on or before the expiration of six weeks from the date of the first publication of this summons; that the date of the first publication of this summons was fixed in and by said order as the 25th day of December, 1912, and the date of the first publication hereof is December 25th, 1912.

ERNEST C. SMITH,

51-57

Attorney for Plaintiff.

## NOTICE OF ELECTION

Hood River Irrigation District

Notice is hereby given that an election will be held in the Hood River Irrigation District at Mercer's Store therein on the 2nd Tuesday in January 1913, to-wit: the 14th day of said month, for the purpose of electing the following officers for said District for the ensuing two years, to-wit:

A board of five directors, an assessor, a collector and a treasurer. Said officers to be elected at large for said district by the qualified electors thereof.

And notice is further given that the Board of Directors of said district by order, dated the 9th day of November, 1912, has appointed the aforesaid place as the place for holding said election; and further by said order has appointed Frank Fenwick, Jack Hicks, and A. O. Anderson judges of said election.

The polls will be opened at one hour after sunrise on the morning of said day and will be kept open until sunset when the same will be closed.

Dated and first posted this 19th day of December, 1912.

R. W. KELLY,

52-54

Secretary.

Wire Wound Continuous Stave

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Mutual Insurance at 60 Per Cent of Old Line Rates. Fire Insurance on Buildings in Course of Construction, Free.

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For Coughs and Colds

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THE DESIRE FOR COMFORT SUGGESTS

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