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Pumpkin Sugar in Iowa.
 Sugar from pumpkins will be the
 next source of wealth which will be de-
 veloped in Iowa, for the authorities at
 the agricultural college declare high-
 grade sugar will be made from them by
 a process even more simple than that
 required to make it from beets. Experi-
 ments have resulted in the production
 of a species of pumpkin which contains
 4 per cent of sugar, and it is the pre-
 diction that in three years the sugar
 element will be increased to 12 per cent.
 This is equal to the quantity of sugar
 found in the best variety of sugar beet.
 Because pumpkins are easily raised and
 a tonnage may be produced to the acre
 which will exceed that of sugar beets,
 the new sugar pumpkin will open up a
 valuable field for the Iowa farmers.
 The pumpkins may be planted in the
 cornfields, and the same soil which will
 produce corn may be made to produce
 a crop of pumpkins at the same time.—
 American Cultivator.

A Tree Guard.
 Very often young trees, maples es-
 pecially, are entirely destroyed by cat-
 tle reaching up and pulling the tops
 down, even when the tops would seem
 to be out of reach. Of course, cattle
 should not be where young trees are
 planted, especially fruit trees; but it
 sometimes happens that this is not
 practicable. When this is the case use
 a guard such as is shown in the illus-
 tration. It is made as follows:
 Take two pieces of board (such as have
 come off some old building), say about 7
 feet long, breadth between 8 to 12 in-
 ches. Leave one of these boards intact.
 Cut the other into three equal lengths,
 and nail into the top of the uncut board,
 as shown in the illustration. Sometimes,
 if the fence is high enough, a short
 board, the one facing the fence, can be
 left out, and a cleat used instead.
 The tree, before putting up the guard
 should be posted, and the guard nailed
 to this post.



Best Sizes of Trees to Plant.
 We have always had the best success
 with planting out the medium-sized
 tree. In apples, cherries and plums we
 would rather have a two-year-old tree,
 4 to 6 feet, that is thrifty than any
 other size. Oftentimes the larger trees,
 6 to 7 feet, do well when the conditions
 are favorable, but if the conditions are
 not favorable, following the transplanting
 of the trees of this size, they often
 get the backset from which it takes
 several years to recuperate, and the ob-
 jection of planting out very small trees
 is that they are much more liable to be
 injured by rabbits and broken down by
 cultivation than the larger size.—Twen-
 tieth Century Farmer.

Storing Carrots or Turnips.
 When carrots or turnips are stored
 outside they cannot always be reached
 when desired for use, and it will,
 therefore, be advantageous to store
 them in bins, in a dry cellar. If packed
 in perfectly dry sawdust, oats, corn,
 or even dry earth, they will keep well
 and can be taken out of the bins at any
 time. It is the alternate freezing and
 thawing that damages all root crops
 stored away in winter, but as the pack-
 ing material keeps them at even tem-
 perature this liability is avoided. The
 oats or corn used for the purpose will
 not be injured, and may be fed while
 using the roots coming from the bin.

Cheviot Sheep.
 A Wisconsin man writes as follows
 of the Cheviot breed of sheep: The
 Cheviot breed of sheep is a compara-
 tively small breed of a semi-mountain-
 ous character. They are sprightly
 and very active in their habits and are
 possessed of a fair mutton form, being
 low down and compact. The fleece is
 long and in fineness exceeds any of the
 down breeds. They are adapted to the
 more rough and broken sections of Wis-
 consin where the range is ample and
 pasturage scant.

Farm Management.
 The farmer reduces the value of his
 own labor by keeping inferior stock or
 failing to secure large yields of crops,
 as the higher the prices and the greater
 the production the better the remun-
 eration for the labor bestowed. There
 are periods when the farmer cannot
 perform work in the fields, for which
 reason he should aim to get his crops
 under shelter as soon as possible, in
 order to do some kinds of work which
 can be performed inside the barn.

Feeding Fowls.
 While it is well to compel the fowls
 to scratch in litter, when grain is al-
 lowed, so as to exercise, yet the soft
 foods should be supplied from troughs
 in order to avoid the filth of the
 ground, the damp food easily accumu-
 lating dirt if thrown where the hens
 must walk over it and scramble with
 each other for their supply. Many
 cases of disease in flocks can be traced
 to the lack of cleanliness in the use of
 soft foods for poultry.

Instructions in Dairying.
 Dairy schools are now in operation
 in many States, and short courses of
 instruction on butter and cheese mak-
 ing are given at some of the agricul-
 tural colleges. It was long ago demon-
 strated that inferior butter could not
 compete with oleomargarine, and that
 good butter of choice quality could al-
 ways be sold at a fair price. The fact
 has also been demonstrated that there
 was much to learn in making good but-
 ter, and that cleanliness and the proper
 management of the milk were essential
 in producing the choice article. There
 has been a wonderful advance in meth-
 ods of butter making, and oleomargar-
 ine is responsible for it. Consumers
 will not purchase the counterfeit article
 if they can get the genuine, and poor
 butter is as much a counterfeit as any
 other imitation.

Cleanliness in the Dairy.
 The Kansas Experiment Station says
 very truly, in a bulletin: Cleanliness is
 the first law which should be observed
 by every man who in any way manufac-
 tures or handles dairy products. Any
 condition which will promote this end
 effectively should be established. The
 simpler these conditions can be made
 the better. Unclean dairy utensils are
 among the greatest sources of contami-
 nation of milk. This contamination is
 due to the presence of undesirable bac-
 teria. The undesirable bacteria are
 those that produce taints in milk, and
 which exist principally in filth lodged
 on the surface and in the crevices of
 dairy utensils. They are minute organ-
 isms which have the power of multiply-
 ing very rapidly under favorable con-
 ditions.

Feeding the Young Calf Milk.
 A dairy farmer of experience gives
 his plan of teaching young calves how
 to drink milk without trouble, and says
 in the Tribune Farmer that he lets the
 calf stay with the cow a few hours
 only, then he milks the cow in a few
 hours after removing the calf and puts
 the bucket of warm milk to the calf's
 nose so as to touch it, and in a minute
 or two it will drink, and the work is
 done. The calf has now learned to
 drink like other animals, and the trouble
 of feeding milk to calves is over. The
 mistake usually made is in allowing
 young calves to run with the cow sev-
 eral days, and so it has learned to suck,
 and it is hard to teach it any other
 way.

Negotiations for U. S. Cattle.
 The chief agrarian paper published
 in Berlin learns from a trustworthy
 source that the American tariff com-
 missioners, who are now in Berlin con-
 ferencing with the German tariff experts
 regarding German-American com-
 mercial relations, are discussing with them
 the importance of importing live Amer-
 ican cattle into Germany, via Ham-
 burg, where they will be slaughtered.
 The meat will then be conveyed to all
 parts of the country in railway refrig-
 erator cars. The journal adds that ne-
 gotiations are going on between vari-
 ous Hamburg shipping firms and the
 Hamburg authorities for the erection
 of the necessary buildings.

Scrubby Fullbloods Denounced.
 A cattle breeder tells some sound
 truth in the following: Breeders of
 pure-bred cattle would doubtless make
 more money if they would keep to sell
 for breeding only those individuals that
 are expert judges would pronounce emi-
 nently worthy of duplication and fit all
 others for the block. The first alone
 would sell for more money in the ag-
 gregate than all of them would, and it
 would be better for buyers to pay the
 higher price the good animals would
 command. The poor, or scrub, full-
 bloods have created all the prejudice
 that now exists against "registered and
 pedigreed" cattle.

Poll Evil.
 If possible scatter the enlargement
 so as to avoid opening it. A stimu-
 lating liniment applied to the poll will
 probably be beneficial, therefore secure
 the following: Four ounces of turpen-
 tine, two ounces of tincture of iodine,
 two ounces of tincture cathartides, six
 ounces of tincture capsicum, one pint of
 compound soap liniment. Mix up and
 apply to the parts daily until sore, then
 withhold for a few days and begin
 again. A cheaper liniment would be
 four ounces of alcohol, four ounces of
 eucalyptol and a pint of water in the
 same way.

Ground Flaxseed.
 Ground flaxseed is sometimes found
 on the market, but in very limited
 quantities. If the pure flaxseed meal
 is desired it is probably best for the
 farmer to grow the seed and grind it
 himself. It is often used to replace the
 fat in skim milk fed to calves. Both
 flaxseed and linseed or oil meal are
 laxative in their nature and for this
 reason should not be fed alone, but
 should be mixed with other grains.

Remember to Salt the Cows.
 The carefully kept cows on the De-
 troit dairy farm receive four ounces
 of salt daily mixed with their feed.
 They eat their food better, and the
 owner thinks they do better when they
 have this amount than when the allow-
 ance is smaller. The cows are fed
 three times a day, and the salt is di-
 vided between the three feeds.

Increased Yield from Beets.
 According to estimates, the beet su-
 gar production of the United States
 for the season of 1906-7 will exceed the
 yield of 1905-6 by nearly 22 per cent,
 the 1906-7 crop being figured, accord-
 ing to latest exhaustive compilations,
 at 245,000 tons of 2,240 pounds each.
 News emanating from sugar factories
 scattered throughout the entire coun-
 try indicates considerably larger crops
 than those of the preceding season.

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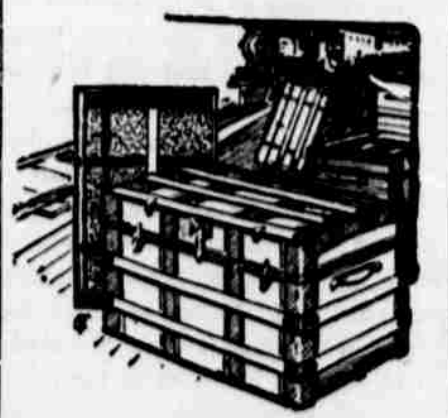
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 1:10, 2:10, 3:10, 4:15 (Ltd., no stops);
 5:10, 6:10, 7:10, 8:10, 9:10, 11:15 p. m.
 Leave Seattle—6:30, 8:00, 9:00 (Ltd.,
 no stops), 10:00, 11:00 a. m., 12 m., 1:00,
 2:00, 3:00, 4:00 (Ltd., no stops), 5:00,
 6:00, 7:00, 8:00, 9:00, 10:00, 11:15 p. m.
PUYALLUP DIVISION
 Leave Puyallup—5:30, 7:00, 8:00, 9:00,
 11:00 a. m., 1:00, 2:00, 3:00, 4:00, 5:00,
 6:15, 7:15, 8:15, 9:15 p. m.
 Leave 9th and Commerce Sts.—5:40,
 7:00, 8:00, 10:00, 12:00 a. m., 1:00, 2:00,
 3:00, 4:00, 5:00, 6:15, 7:15, 8:15, 11:15
 p. m.
 (5:30 a. m. omitted Sundays)



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