(6)

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C. W. PETERSON.

Secretary

the firing line,

R. B. BENNETT, Director Gene

### FARM AND DAIRY

## The Light Farm Tractor (Continued from page 4.)

should be called to a matter that appears to have escaped the attention of all makers and designers of farm tractors. That is, the influence the weight of the carried operator and of the carried store or supply of gasoline or oil has upon the operation of the tractor. The driver may weigh 220 lbs. or he may weigh 80 lbs.; difference, 140 lbs. The weight of gasoline or oil carried, with a full tank, may be 130 lbs. or with a nearly empty tank it may be 10 lbs.; difference 120 tank is may be 10 los.; difference 120 bbs. Total extreme difference, 260 lbs. A difference of 260 lbs. may make all the difference in the world and may make the satisfactory operation of a tractor very unsatisfactory when tractor very unsatisfactory when working difficult land. As the strength of a chain is the strength of its weak-est link, so the power of a tractor is limited by its work under adverse conditions. Whilst the driving wheels might work without slipping, when the tractor was being driven by a heavy man and with a full fuel tank, the wheels might slip and slip badly when a boy occupied the driver's seat and when the fuel tank was nearly empty. Tractors should be supplied empty. Tractors should be supplied with cast iron weights, which would be placed on the tractor when neces-sary, so that the total weight of the driver and the weight of carried fuel may be kept nearly constant.

with the surplus of stooked corn during the months of November and De-cember is followed successfully by many farmers. I do not know of any farmer who carries this to the extent of filling the four months' supply at that season of the year. It is doubt ful if as good silage can be made, and The ir as good single can be made, and the inconvenience and cost of filling during the cold weather of January would be much greater than in the fall. It is altogether likely, also, that the loss from the corn in feed value would be at least 15 per cost. It is also doubtful if in filling such a quantity of dried corn stover at this sea-son that sufficient moisture would be absorbed in order to insure proper packing to induce the correct maturing of the ensilage. It would cer tainly be necessary to use a fairly tamp be necessary to use a fairly large amount of water, either poured into the silo or run into the blower. The writer is strongly of the opinion that rather than all this expense, in-convenience and risk of winterfilling. it would be much more profitable to erect a stave silo for summer feeding. erect a stave glio for summer feeding. If sufficient help is not available for this, probably one of the manufactur-ing companies' patent stave silos would give satisfactory assistance.— E. S. A.

Inly 12 1917.

#### Calf Scours.

WHAT can be done for call tell us to remove the cause. better. Navel infection and indigestion are the two principal causes of scours. Sudden death shortly after birth is generally due to white scours or navel infection. Ordinarily com-mon scours is caused by digestive trouble. Over feeding, sudden changes in diet, changes in temperature of milk, filthy utensils, sour milk, one meal sweet and the next sour, are the most fertile causes of indigestion and hence the scours.

Calves should be watched carefully for symptoms. At the first appearto one half and add one ounce of cas-tor oil to the milk. The great objection against group feeding is that the sick animal cannot be detected. Then follow with the formalin treatment. The formalin treatment consists in giving one tablespoonful of formalin giving one tablespoonful of formalin solution, made by adding one-half ounce of formalin to 15½ ounces of water, in each one pint of milk fed. The quantity of milk fed is gradually increased until the normal amount is being fed. Many feeders have got good results from blood meal. In mild cases a teaspoonful of dried blood is added to the milk at each meal. L. W. Wayne of Missouri Agricultural College recommends the following pre-ventative measure: Care against over feeding, gegularity of feeding, clean conditions of the milk at feeding time, cleanliness of the pails, pens and stalls. Keep the conditions right at all times

#### An Accessory

LD DOBBIN was a good old nag, O LD DOLBHN was a good old nag, And he proved mighty handy In days of old when I would go A-sparkin' sweet Mirandy. He knew the roads that we would take,

He knew the roads that we would take, And faithfully he'd take 'em; He knew the hills that we would make And faulticessly he'd make 'em. Unguided, he, and when at times Her lips to mine were pressin', implicit faith we had in hmm-He never had us guessin'. The while I hugged her, I recall The lines were till sevinet.

The lines were idly swingin'. Old Dobay was one good spark plug, His prove to-day I'm singin'.

-T. S. (Detroit.)

July 12, 1917.



#### Summer Care in

#### By Michae

HE summer o subject of s to many ne that they are apt seems as though days fairly wilts t otherwise wide-av much is "put off u should have been Now it is just as fowls feel comforts

it is aimed to have Not only should fed and watered, h should be provided hot suns are depres All foods of a he bonaceous material

in quantity, using balance the ration. The houses should lated at night-in should have open fr that they may get pure, fresh air.

Not only is it ne water be given, bu taken that the dri kept in the coolest All this advice, to old story," but to the and there are many

-it is valuable info portance of these s not be apparent at fi one is engaged in pe more does he see strictly living up to

Especially are the and August trying to poultry keeper. Th work a burden. T calls for heroic actic of the fowls about a an eye sore; the egg its limitations; and is almost discouragin ject to the "blues"? when you are apt to

But the enthusiasti worker will plod alo the season will soon stock will look bette and when the prices i

and when the prices i try will be a more to Green food is an item. Short, tender i radish leaves are n but the very best k give. Of course, the a range over a goo poultrymen do not a advantage to give the There is more or

in the summer, and th quently become bake soils more or less fi who has the best in stock at heart, will on hand plow in such y the soil so as to ma fresh. If he does th next morning the for work, scratching, hun stirring up things ge wonderful how much turned up soil that both amusement and

It should be the rul thrown in the poultr not be caten up quick To make the runs a for slop, soon furnishe a lot of sour, tainted to create sickness. W

certainly would not to After breeding se poultrymen remove the from the flocks. The

# FEEDERS CORNER Conducted by E. S. Archibald.

## Is Fat on Heifers Dangerous?

IFAVE had dispute which a neighbor and would like you to settle the point in guession. I chim that I san not well fed, and perhaps a little on the fat alde. I do not think that disk will injure profisione situation of the settle of the fat alde. I do not think that disk will injure profisione situation of the settle of the profisione situation of the settle of claims, on the other hand, that helfers will never make good millions if they are which is the settle of the settle of the bread more than another, and if so, wheth -J. M. Pietou Co. N. B

There is a great deal of controve as to whether heifers kept fairly fat may be spoiled as milk producers. Advocates of some of the smaller breeds of cattle lay particular embreeds of cathe lay particular em-phasis on this question. However, the experience of the writer has been that, provided the animals are not over-fattened to the extent of curtalling the general growth and rugged-ness of the individuals, there are no injurious results. Generally speaking, a reasonable amount of fat is necessary in order to have calves in mo sary in order to have caved in most thrifty condition. Any excess of fat, however, is usually money wasted, for when the animals are turned on grass they very often shrink to this extent. It is generally found advisable to have It is generally found advisable to have the heifers only in thrifty condition and fair fiesh when at the breeding age, but during the last six months before their first freehening it almost invariably pays to make helfers quite Inversion pays as make neutral quite fat as a preparation for their first lac-tation period. I have not noticed that too much fat in young stock is more injurious in one breed of dairy cattle than another.—E. S. A.

## Refilling the Silos

O LTL allo of 10 x 21 des afford us will have no help to build a second roll the season, built would like to have even for recomending next summer. Can 1 roll mor add, say along in Jan set, p in the fall. Will ensitive made at this time pack sufficiently well to keep in warm wenther? How much water abouid be run roll. Jan set of the second second second roll.



Tool-Kit in Your Hip Pocket That is what you have in the Hawkeye Wrench. It combines six handy tools

Dept. 347.

in one, viz.: a monkey wrench, a pipe wrench, a screw driver, and three In one, viz: a monkey wrench, a pape wrench, a serve worst, sau unit steel dies for threading or re-threading bulks, 5-16, 3-5 and 1-2 Inch. This useful little outfit, given away absolutely free to any subscriber Parm and Dairy who sends us one-only one pedd in advance subscriptic Send more than one, and you will get your choice of other premiums or cash commission if desired.

CIRCULATION DEPARTMENT, FARM AND DAIRY, PETERBORO.