Cutter's

Germ Free

Blackleg Filtrate

and

Blackleg Tissue Aggressin

The New, Safe and Efficient Agents for Protecting Calves from Blackleg.

Cutter's Blackleg Filtrate positively protects against Blackleg.

Cutter's Blackleg Aggressin, made directly from animal tissues, **affords even greater protection** and is recommended for Pure Breds.

Neither the Filtrate nor the Aggressin can possibly produce Blackleg in even the most susceptible animals since **both are germ free.**

Both have given 100% protection wherever used.

Prices—
10 dose pkge. Filtrate....$2.00
50 " " " 8.00
100 " " " 15.00
10 dose pkge. Tissue Aggressin 4.00

N. B.—Cutter's Filtrate (a "cultural product" aggressin) is full 5 c.c. to the dose, as we believe that smaller doses, whether concentrated or not, afford less protection.

Write for booklet telling what germ free vaccines are and wherein **"cultural product" Aggressins differ from Cutter's Aggressin** made from animal tissues.

While these new "germ free vaccines" have advantages that should be known to every stockraiser, we see no reason for a quick change to them by stockraisers who have had satisfactory results from the use of

CUTTER'S BLACKLEG PILLS

"California's Favorite" for nearly 20 years

Year in and Year Out they have given better satisfaction than any other vaccine made, and as far as price and convenience of administration are concerned, they have all the advantage.

Prices:
10 dose pkge. Single pills $1.00
50 " " " " 4.00
10 dose pkge. Double Pills 1.50
50 " " " " 6.00
Cutter's Pill Injector.... 1.50

Insist on Cutter products. If unobtainable, order direct. **We** pay shipping charges.

The Cutter Laboratory, Berkeley, Calif.
(U. S. LICENSED)
"The Laboratory That Knows How"

ABSORBINE STOPS LAMENESS

from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone, or similar troubles and gets horse going sound. It acts mildly but quickly and good results are lasting. **Does not blister or remove the hair** and horse can be worked. Page 17 in pamphlet with each bottle tells how. $2.50 a bottle delivered. **Horse Book 9 R free.**

ABSORBINE, JR., the antiseptic liniment for mankind, reduces Painful Swellings, Enlarged Glands, Wens, Bruises, Varicose Veins; heals Sores. Allays Pain. Will tell you more if you write. $1.25 a bottle at dealers or delivered. Liberal trial bottle for 10c stamps.

W. F. YOUNG, P. D. F., 138 Lymans Bldg., Montreal, Can.

Absorbine and Absorbine, Jr., are made in Canada.

notice, or instant reference to some of the books on farm subjects may be urgently required and it is then that an office comes in most useful. There is no call for lavish expenditure in establishing a farm office. A small room with an ordinary deal table, a couple or three plain chairs, a home-made bookcase and a rough plan of the farm to hang on the wall.

The bookcase should contain such books as are most useful for reference on various subjects such as cattle remedies, treatment for noxious weeds, etc. Here, too, can be found a home for the otherwise, in many cases, homeless bulletins, scores of which may be obtained free from the government. The farm account books can find a permanent headquarters here also. The writer has seen an occasion where an organized search in a farm house finally ran a pen to earth in the tool box. It is the object of the farm office to eliminate such extra work as that. "A place for everything," as the saying goes, and the place for everything connected with farm accounting and correspondence is in the farm office, where matters of vital importance can be disposed of without lost time or causing confusion in the domestic circle. A diary with each page containing the date of two or three days of the week is useful. In such a book coming events can be noted and prepared for.

A plan of the farm is very handy, and by its use the seasons' field operations can be outlined. By having the various fields and the crops contained therein marked out, matters in relation to the work can be readily discussed without having to cover the ground by walking or driving.

The office should, in order to maintain its efficiency, be allowed to maintain its individuality, and not to be invaded by bits of harness, machinery parts, etc. To allow the use of it temporarily as a children's play room or for any other purpose would be to introduce confusion and untidiness where such a condition can least be tolerated.

Within the quiet of the office one is better able to thresh out the various problems that beset the farmer than in the midst of domestic chores and conversation and letters can be written by the aid of concentrated attention. Catalogues that contain good farm requirements have a knack of getting lost when they are wanted, but in such a room as above described these catalogues may find a safe storage and will be on hand when wanted. Also, the farm papers which contain many a valuable article will always be on hand for ready reference if kept in this official haven of refuge.

Wheat

It is the duty of all farmers who have any surplus wheat to keep it moving marketward. There is absolutely no incentive to hold it, and every reason to sell it. Kept on the farm it is piling up expense, in interest, insurance, etc., and is subject to fire and other losses. The price has been fixed to the middle of next year, with a new and we hope bigger crop coming on in the meantime. Winter wheat is reported in pretty good condition, and a very large acreage of spring wheat will be sown. But most important, our Allies need wheat. They need it badly, and any farmer who hangs on to wheat is actively engaged in opposing his own country. If our allies fail——. But we do not want to think of that. They must not fail, and each one of us must help them in every way possible so that they may have the strength to go on with the fight for peace.

The Machinery for Cultivtaion

If an attempt is made to break new land on a scale that will be an appreciable factor in our food supply, we shall have in the main to rely on gasoline power with steam as a second factor. Taking large and small tractors together and allowing for unavoidable mishaps, each machine might be relied upon to turn over 40 acres of sod a week, or say during the season of eight weeks 300 acres. The season for breaking might if necessary be extended for two additional weeks, though experience has shown the best results from breaking done during the last two weeks in May, the whole of June and the first two weeks in July. Reckoning 300 acres for each machine, to break 1,000,000 acres will require approximately 3,300 machines. Probably 1,000 or even a larger number of these could be rented from farmers in the west, the balance would have to be secured from those who at various places hold these machines for sale and the factories in Canada and the United States. There should be no difficulty in procuring them from these places. All that could be had should be taken from Canadian companies and the balance from the States. If the middlemen's profit and the duty on the American machines is eliminated the whole should be secured at a reduction of 30 to 40 per cent from what is ordinarily paid by the western farmer for these articles. Plows can be secured without any difficulty. In addition a liberal supply of horses and wagons would be necessary, these being needed for draying gasoline and supplies besides furnishing a number to meet unforseen contingencies. 1,000 useful horses could be obtained in the west for the foregoing purposes. The supply of gasoline and kerosene need cause no concern, millions of gallons of gasoline are at present wasted by automobile owners in journeys that could easily be curtailed fifty or seventy-five per cent. The sooner something along this line is done the sooner will our people realize that this nation is at war, and that modern war means more than shouting at patriotic meetings and sending somebody else to the firing line.

Tame birds in the wild duck breeding grounds on the Pacific Coast.

Transplanting

Written for The Western Home Monthly by Dell Grattan

The first point to be considered in transplanting is to avoid injuring the roots. It is only necessary to consider the construction and uses of roots to see how impossible it is for the plants to thrive unless they are in a healthy state. Roots generally consist of two parts, the main roots, which are intended to act as grappling-irons to enable the plants to take a firm hold of the ground, and the fibrous roots which are intended to supply the plant with nourishment. These fibrous roots are most liable to receive injury from transplanting, because they are covered with a very fine cellular integument, so delicate in its texture as to be very easily bruised. They each

Miller's Worm Powders not only make the infantile system untenable for worms, but by their action on the stomach, liver and bowels they correct such troubles as lack of appetite, biliousness and other internal disorders that the worms create. Children thrive upon them and no matter what condition their worm-infested stomachs may be in, they will show improvement as soon as the treatment begins.

BEDRIDDEN WITH RHEUMATISM

Felt That He Would Never Walk Again "FRUIT-A-TIVES" Brought Relief.

MR. LORENZO LEDUC

3 Ottawa St., Hull, P.Q.

"Fruit-a-tives" is certainly a wonder. For a year, I suffered with *Rheumatism;* being forced to stay in bed *for five months.* I tried all kinds of medicine but without getting better; and thought I would never be able to walk again.

"One day while lying in bed, I read about 'Fruit-a-tives' the great fruit medicine; and it seemed just what I needed, so I decided to try it.

The first box helped me, and I took the tablets regularly until every trace of the Rheumatism left me.

I have every confidence in 'Fruit-a-tives' and strongly recommend them to every sufferer from Rheumatism".

LORENZO LEDUC.

50c. a box, 6 for $2.50, trial size 25c. At all dealers or sent postpaid on receipt of price by Fruit-a-tives Limited, Ottawa, Ont.

THE SELF-OILING WINDMILL

has become so popular in its first three years that thousands have been called for to replace, on their old towers, other makes of mills, and to replace, at small cost, the gearing of the earlier Aermotors, making them self-oiling. Its enclosed motor keeps in the oil and keeps out dust and rain. The Splash Oiling System constantly floods every bearing with oil, preventing wear and enabling the mill to pump in the lightest breeze. The oil supply is renewed once a year. Double Gears are used, each carrying half the load.

We make Gasoline Engines, Pumps, Tanks, Water Supply Goods and Steel Frame Saws.

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