s litter ng their nporary ig pens females geny to s are all

d more igs. are very he chop the pigs feeding eir own e house t in the the hogs run to-: a good hey pick products sows in shaped w blown the sows a cheap aturally.) private A small : separae butter sely adouse is a

eberries.

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egetables The fruit 1sh fruits ucing for ch as this growing fruits are son farm most the

th of the it a piece , but the pasturing as is too p flock is the grass ill be ineed scav-

omething at of this Bradshaw unts and ry system liscussion for such

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DAIRY

Wintering Dry Cows on Alfalfa

The Kansas Experiment Station tested the value of alfalfa for wintering cows not in milk. Seven head composed of dairy and beef animals were placed in recorded in the following table:-

RESULTS IN WINTERING COWS ENTIRELY ON AL-FALFA HAY.

₩.	Age					디	п
No. of cow	Breed of Cow	Years •	Months	Weight, Sept. 2	Weight, April 4	Total'gai 213 days	Daily gain
1	Shorthorn	2	7	lbs.	lbs. 1330	lbs. 330	lbs.
2	Hereford	1	10	840	1111	271	1.27
3	Holstein	2	6	980	1268	288	1.35
4	Holstein	2	6	950	1238	288	1.35
5	Red Polled	1	5	450	701	251	1.18
6	Galloway	1	10	651	810	159	1.06
7	Galloway	1	10	829	1039	210	1.40
Ţ.	t was noted tha	t tl	ne c	ows gr	eatly i	mprov	ed in

Increasing the Profits from Dairying

their appearance while being fed alfalfa.

matter, but a better arrangement in the ration petitor, or in a broken down plant. of the feeding stuffs available for use. In some purpose of compounding a balanced ration and proportions for milk production.

to find the cows than it is to figure profits from run on business principles. them. The most profitable dairy herds in this continent have been built up, got together by selection and careful breeding, built up upon the foundation stock the founder happened to have about him when operations first began, and by judicious selection of the females and the use of sires bred in a milking line, the milk yield has been built up, slowly to be sure, but certainly. It is better cows than one has oneself. The rational way to improve, is to find out first what your own have died down and are dry. The tubers then time to tell your readers something of this seagiving less than a given amount of milk. Good dairy has not been affected with blight, and growth am sorry to say it is not as satisfactory as I should cows are not for sale as a rule, except in the checked prematurely. There are a number of have liked. We had nine days' successive rain purchasing outright.

article, and this involves generally nothing more or less to get out, but the cost per bushel of will always sell his goods for the lowest price such acre is a good day's work for a man with a fork or commodity sells for. Improvement has to come shovel. The majority of men dig less than half before the price increases. As long as he is con- an acre a day. the feed lot in September and received nothing during tent to remain in the axle grease class, he will Where several acres of potatoes are grown a the winter except alfalfa hay. The results are take axle grease price for his butter. This refers mechanical digger becomes an economic necessity. of course to butter made on the farm. Better It is almost impossible to procure labor for pocare of the cows, more efficient help in caring for tato digging in this country, and while the outlay the butter, and last of all but essentially im-dollars or more, it will harvest the crop at less portant, a modern way of selling the products— cost per bushel than can be done by hand. By profits of dairy farming.

Playing at Dairying

industry which its possibilities and advantages warrant it in becoming, there will have to be a lot of weeding-out done among the herds that now furnish our milk supply. In every herd of milch cows that one meets every time he is looking for cows, there are one or more that are simply an expense to their owners. And the less attention there is given to the culling of a herd, the greater is the loss through these board-The law of averages is the only rule that appears to regulate the quantity and quality of The profits from a herd of dairy cows can be the milk a herd gives. Dairying as an industry increased in several ways. Better rations and is discredited in Western Canada on the ground better cows will increase returns at one end of the that it does not pay, yet there is no serious line and improved quality and a better selling steady attempt made by most cow owners to system for the products will increase it at the put the industry on a business basis. Dairying, other. By better rations is not meant more as it is commonly followed, is like starting a expensive food stuffs or more food, for that factory with the cast-off machinery of a com-

In Canada we have facilities for testing pure cases this may result in a lowering of the cost of bred cows and recording them in their respective the feed, in others it may increase. In some cases herd books, as well as facilities for conducting the feeds at hand may not be sufficient for the cow testing associations to weed out grade cows, yet there is not a cow in Western Canada regiscertain other stuffs must be purchased to supply tered in the former, and very few herds that are machine and are readily picked up. the deficiency. But whatever the circumstances being improved by the latter. Under these cirare, it pays generally, providing the cows are worth cumstances no one can say with any degree of diggers. The horse power required depends to feeding at all, to feed a ration compounded so as finality that dairying will not make money for some extent on the depth the tubers are below the to supply the proper nutrient in about the proper the man who follows it, and the very encouraging surface and on the character of the soil. The It is easy figuring increased profits from without testing their cows, indicates that very keeping better cows, but more difficult sometimes good money can be made when the industry is

HORTICULTURE

Harvesting the Potato Crop

herd is doing and eliminate from it all cows are mature, providing of course, that the crop son's crop. Well, now that the season is over, I dispersion of a herd, and anyway a man can build different ways in which potatoes may be taken just when the plants were in full bloom. The up a herd of good producers from his own stock, from the ground. Where a small patch only is rain washed all the pollen from the bloom, so about as quickly, and certainly at less cost, than by grown, a fork or shovel is generally used, the that the fruit did not set properly. Some of At the other end of the line there is the possi- picked up. The hand method of digging is all all right, and I had some of the finest and best bility of increasing returns by producing a better right for the average grower who has half an acre fruit that I ever had from the same variety,

than a little better care of the product, in the harvesting in this way is too great, and labor too handling of the milk and the manufacture and scarce, for the hand method to be followed where sale of it in whatever form it is disposed of, any considerable acreage is grown. Digging by The dairyman who won't improve the quality of hand costs anywhere from three to six cents per his product, if it is butter, say, until the price of bushel, sometimes more, a great deal depending butter gets higher, will never improve at all, on the skill of the man doing the work. Half an

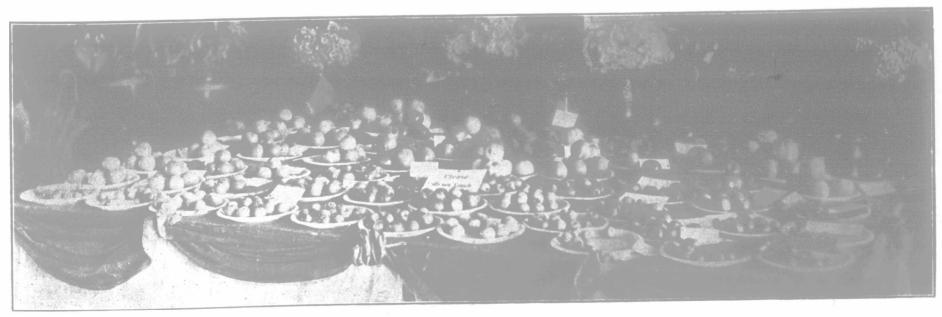
them, a better and cleaner way of manufacturing for a digging machine amounts to a hun red these are some of the things that will increase the mechanical diggers we do not mean the shovel plow implement used in some places, where five or eight men with a team of horses will take up two acres or so a day, but a machine that will dig five or six acres a day, separate the tubers from If dairying is ever to become the extensive the soil, and leave them in a row, clean and free from vines or earth where they may be easily picked up.

These mechanical diggers differ somewhat in construction. In the potato growing districts of this continent the type used largely is the shovel-point machines. These machines are built with two-drive wheels, one on each side of the digging, and with shaking apparatus, straddling the row that is being dug. The digging device consists of a shovel point, about eighteen inches in breadth and bluntly pointed. It is forced under the row of potatoes and the row lifted and deposited on the elevator. The elevator is five, six or more feet in length, made of iron slats fastened an inch and a half or so apart. An attachment from the drive wheels keeps the elevator in motion as the tubers, soil and vines are carried up it, and by the time the upper end is reached, the soil has fallen through and the vines and tubers go over the rear end. Here, on some machines, there is a contrivance for removing the vines and throwing them to one side, so that the tubers are deposited in a row behind the

Three or four horses are required on most partial success of those who practice dairying machines work satisfactorily in all kinds of soil and may be used wherever and whenever digging could be managed by hand. The advantages in favor of machine digging are that it costs less to get the crop out, (two cents a bushel ought to cover all expenses), it makes a better job, leaves few tubers in the ground, cleans them off pretty well, and leaves the land in excellent shape for the succeeding crop.

Strawberry Grower's Experience

Last June I sent you a letter on growing strawtubers being thrown up on the surface and the bloom that came before the rain set the fruit



FRUIT DISPLAY OF MR. A. P. STEVENSON AT THE WINNIPEG HORTICULTURAL SHOW