stein, Jersey' Shorthorn. 6.—Holstein. thorn, Brown

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maker

are his worst enemies. The average maker will not take the trouble to study the tactics of the enemy, hence many go down to defeat. The unseen yeasts are by far the worst enemies of the dairy industry, and we know very little about them.

The report says: "During the past year, 450 samples of milk, cream, butter, cheese and whey were examined for these yeasts. These samples as nearly one-half of the samples in a Swiss-cheese bushels. T. W. K., Emerson, Man., says: section containing them were from whey. Heathence this would seem to be a practicable remedy than any person has raised in one crop in Manito get rid of yeasty flavors. This heating may toba? Why, it would mean about sixty acres and be done with the exhaust steam from the engine would swamp the Winnipeg market. I have no inches square and perforated with auger holes. of the factory, at practically no expense. In a experience of wintering such quantity. About These were placed on the ground upright and the brick-cheese district, 59 out of 67 samples of 150 to 200 bushels is about my size, and I should potatoes dumped round them. I would open patrons' milk contained the yeast germs. Sam- think that any person raising potatoes on such pits in the spring and the potatoes came out as parts of the state, all demonstrated the presence store them in, but the cash value would be about would cover the ventilating boxes, or if snow or of lactose-fermenting yeast. The number of from \$4,000 to \$5,000, too much to run chances rain were falling. yeasts present in the butter was very small."

are found wherever dirt accumulates and is pro- ing potatoes outside the cellar I have a roottected from drying. Referring to the fact that a house dugout sixteen feet by eight feet and six Edmonton two weeks ago conducted a live stock Canadian bacteriologist found a yeast of this feet deep with a pole roof and about a foot and a judging competition for farmers and farmers' sons, type on the leaves of maples, he remarks: "This half of chaff and fire fanged manure on top with with the following results: was undoubtedly an accident, the organism hav- a double door and second front wall one foot from ing been bo ne there in the dust.'

organisms, that develop so luxuriantly in this past. habitat, they are not able to hold their own. tank; on the contrary, it shows that the whey cells had been dest oyed.

H. H. D.

The potato "bugs" are probably more numerous and persistent in Manitoba this year than they have ever been in any district of the Dominion. work with the old bulbs and Paris Green with the young slugs is the only remedy and the salvation of the crop.

Horticulture and Forestry

Suggestions for Storing Potatoes.

ing to 170° F. destroys all yeast cells present; and meant 1,000 bushels? 10,000 are more potatoes the field and always endeavored to have the ples of whey from 18 cheddar factories, in various a scale would put up a building purposely to fresh as if just dug. In very cold weather I of getting touched with frost, and but a very The writer goes on to say that the organisms little frost does the trick thoroughly. In winterthe other filled in with dry chaff, and this works In the cheddar industry, while the whey may all right. About the end of November I close up yeast, yet, in competition with the lactic-acid not open till March when most severe weather is

Dr. S. J. Thompson of St. Charles, Man.. The foregoing probably explains why the "bitter advises as follows: "Dig a pit about six feet deep making best score in cattle and hogs, A. J. Ottewell, flavor" is worst when the whey tank is cleaned. and eight feet wide in good dry soil; fill up to Clover Bar. This is no argument for not cleaning the whey about the level of the ground with potatoes; then lay over with poles; cover with straw, and a tank was not properly cleaned, else the yeast layer of earth six to ten inches deep. As the weather gets colder put on another coat of straw and earth and along about the first of the year cover with a good coat of horse manure, letting Rand. it extend well over the sides of the pit. Watch closely and if the snow does not lie on the pit put Hard on more manure, or if the weather keeps warm are suffering from the visitation of myriads of lice. watch that the potatoes do not become hot. So thick are the pests on many trees that the leaves with wooden boxes or stove pipes and fill them and the ground beneath is sticky with the substance.

with straw. Storing such an amount as our correspondent mentions is not advised, however, especially where labor is difficult to get.

A British Columbia correspondent, Mrs. F. Martin, suggests the following method in climates similar to that in the coast province:

"Pit them out of doors in long narrow pits, say six to seven feet at the bottom of the pit. We have had several suggestions upon the Cover with straw and then earth. The amount came from all parts of the state, representing the storing of potatoes in response to our request in of earth required depends upon the amount of Swiss and cheddar cheese, as well as the butter. a recent number for information for one of our cold you get. I have pitted potatoes in the These yeasts appear to be most abundant in whey, readers on the keeping over winter of 10,000 province and the thermometer has been below oushels. T. W. K., Emerson, Man., says: zero for weeks. I usually had a good covering of straw and about two feet of earth. I pitted in potatoes dry before pitting. Every five or six feet I placed a box made of inch lumber and eight

Judging Competition at Edmonton.

The executive of the Provincial Exhibition held at

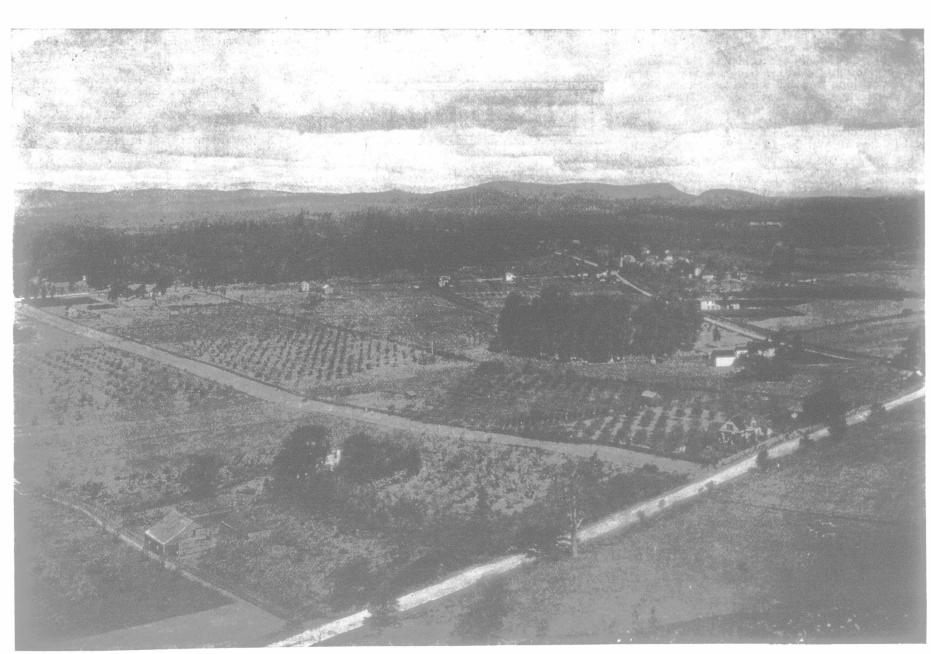
Heavy horses—Stephen Swift (medal); light horses Stephen Swift; beef cattle—1. G. McGill, Lacombe; 2. D. E. Timmey, Riviere Qui Barré; 3. A. J. Otte-In the cheddar industry, while the whey may all right. About the end of November I close up well, Clover Bar; bacon hogs—1. D. E. Timmey; 2. contain considerable numbers of this form of the entrance with a load of straw manure and do T. Daly, Clover Bar; 3. A. F. M Gill, Lacombe; mutton sheep-1. D. E. Timmey; 2. T. Daly; 3. A. F. McGill.

Medal, as a sweepstakes prize to the farmer's son

MILKING CONTEST. Cowtest—1. F. Toane, 22¼ lbs. milk, 3.3 per cent. butter-fat; 2. J. McDonald, 16½ lbs. milk, 3.5 per cent. butter-fat; 3. F. Toane, 15¾ lbs. milk, 3.4 per cent. butter-fat.

Cleanest and fastest milker-1. F. Toane; 2. J.

Many of the forest trees in the Red River Valley In some cases it is necessary to make air holes are covered with the honeydew which they exude,



YOUNG FRUIT FARMS NEAR VICTORIA, B.C.