

Seed Treatment For Control Of Potato Diseases

BEARS KILL DEER, WARDENS SAY UNUSUAL

CAMPBELLTON, April 28—A most unusual occurrence was encountered by William Copeland provincial government forest warden, last week, when, while on his regular patrol far up Clayton's Brook, he came upon a place where a deer had undoubtedly been killed by two bears. Part of the deer's carcass remained on the spot and signs of a grim struggle were plainly evident.

Judging from the spoors of the bears, it appeared that one of the bruins was of unusual size. The tracks showed they had left their den, undoubtedly in search of food, and experienced woodsman considers this an unusual occurrence at this early season of the year as the bears almost always remain hibernating until the snow has disappeared and there is an estimated four to five feet of snow still lying in the woods districts.

The killing of animals by bears, woodsmen state, is unusual though not unheard of, especially in the early season when they are particularly vicious and famished after a winter of living on their own body fat. They have been known to attack and kill moose, though deer and moose at this season however, are not generally in condition to put up a strong fight after a winter in the open, with food scarce for months and snow conditions impeding their progress.

In recent years the bears have proved more numerous, more vicious and

QUEBEC PREPARES FOR KING, QUEEN

QUEBEC, April 28—When the King and Queen make their public appearance in Quebec next month 9,000 police officers, soldiers, scouts and cadets will line the streets, it was announced by Lt.-Col. P. A. Pluie, commissioner of Provincial Police.

Announcement of police protection and traffic regulations during the royal visit was made by Col. Pluie after a meeting of the special committee presided over by Assistant Commissioner Lt.-Col. Leon Lambert.

Explaining that policing arrangements here and in other cities would be in the hands of civic authorities, Col. Pluie said Provincial Police heads and Royal Canadian Mounted Police officers were only assisting in carrying out plans.

The Quebec force of 9,000 men will be divided into 12 groups, each group operating under its own specially-appointed officer and will be on duty whenever the royal party appears in the streets and during the parade around the city to the Plains of Abraham.

Members of the various police bodies selected as escorts to Their Majesties, have been specially chosen with preference given to ex-service men.

more daring than is generally the case and for several seasons reports of raids on isolated farm crops and attacks on livestock have been circulating frequently.

Methods Of Seed Treatment Recommended For Control

In the province of New Brunswick, four commonly occurring potato diseases, namely, rhizoctonia, common scab, blackleg, and bacterial wilt and rot, are often responsible for the degrading of an otherwise marketable crop. The organisms causing these diseases are tuber-borne. Experiments conducted by the Divisions of Botany indicate that potato seed treatment eliminates the surface-borne organisms of these diseases, thus effecting a higher and more uniform germination, a more vigorous stand of vines, and a notable increase in yield, states J. L. Howatt, Dominion Laboratory of Plant Pathology, Fredericton, N. B. Potato seed treatment should be preceded by a careful selection of the seed stock, with the elimination of all misshapen, off-type and blemished tubers.

A choice of any one of the following four methods of seed treatment is recommended to potato growers:

(1) Standard Corrosive Sublimate Treatment—Dissolve in a glass container 4 ounces of bichloride of mercury (corrosive sublimate) in 1 gallon of hot water. When the crystals are all dissolved, add this solution to 24 gallons of cold water in a wooden cask. Immerse the whole potatoes, preferably loose, in this solution for 1½ hours. At the termination of the treatment, remove the potatoes, allow them to drain, and then spread them out in a clean, airy place to dry. Before the second lot of potatoes is treated, add ½ ounce of corrosive sublimate, previously dissolved in hot water, to the cask. Repeat with a similar addition of corrosive sublimate before the third and fourth treatments. After the fourth treatment discard the solution and prepare a fresh one. Cut seed cannot be treated by this method.

(2) Acid Corrosive Sublimate Treatment—Dissolve in a glass container, 7 ounces of bichloride of mercury (corrosive sublimate) in 1 quart of commercial hydrochloric (muriatic) acid. Slowly add this solution to 25 gallons of cold water. Immerse the whole potatoes, contained in wooden crates or asphaltum painted wire baskets, in this solution for 5 minutes. After the treatment, withdraw the tubers, allow them to drain and then spread them out in a clean place to dry. Sufficient unused solution should be kept on hand to adjust the solution, after each treatment, to its original level. After 50 bushels of potatoes have been treated, discard the solution and prepare a fresh one. When treating the variety Chippewa, or any variety which is strongly sprouted, reduce the strength of the original solution, using only 5 ounces of corrosive sublimate to the quart of acid in 25 gallons of water. Cut seed cannot be treated by this method.

(3) Organic Mercury Treatment (Improved Semesan Bel)—Add 1 pound of "semesan bel" to 6 gallons

of water and stir thoroughly. Place the whole tuber or cut sets in wire baskets and immerse them in this solution for 1 minute. Withdraw the basket and allow them to drain. Materials not intended for immediate planting should be spread out and allowed to dry in a clean, airy place. Avoid piling treated sets to a depth greater than 4 inches. When about two-thirds of the solution has been used (60 to 80 bushels of potatoes treated) discard the solution and prepare a fresh one.

(4) Cold Formalin Treatment—Add 1 pint (1 pound) of formula to 25 gallons of water. Immerse the potatoes in this solution for 2 hours. After treatment, spread the tubers out in a clean place and allow them to dry. Cut seed cannot be treated by this method.

When treating whole seed, by whatever method, growers are urged to have on hand a number of extra cutting knives kept in a disinfectant solution (formalin 1-200) or (semesan bel 1-60). Whenever a potato has been cut which shows internal evidence of rot or decay, discard the knife being used, place it in the disinfectant solution, and withdraw a clean knife.

Mercury solutions, and the potatoes treated in them are poisonous. Use care in the disposal of these materials. For further information growers should apply to the Dominion Plant Pathological Laboratory in their province.

VALUE OF MILK IS STRESSED BY HEALTH LEAGUE

"Milk contains the greatest assortment of nutritive substances of all single food materials." So says Mary Swartz Rose the food expert of Columbia University. It is easy to prove the assertion. Milk is easily "taken apart."

Milk contains proteins, casein and lactalbumin, sugar, fat, minerals and vitamins. While liquid in form, milk actually contains more than 15 per cent of solids by weight.

Milk may be taken apart in two ways: (1) by separating the fat from the skimmed milk and (2) by separating the curds from the whey. The first method is used by the housewife when she makes butter, the second by the cheese-maker when he makes cheese.

The curds are separated from the whey in two ways: (1) by adding rennet, a digestive ferment which curdles the milk protein as casein and (2) by adding lactic acid which does the same thing. Allowing the milk to sour produces acid in the milk naturally. The use of rennet produces hard cheese and a combination of rennet and acid gives us sour milk cheese such as cottage and cream cheese.

Some rennet cheeses are made of whole milk, that is milk including the cream. Others are made of skimmed or partially skimmed milk.

Cheese is a concentrated form of milk. It takes ten pounds, or 4.2/3 quarts of milk, to make a pound of cheese. Over 3 billion quarts of milk go into cheese in Canada and the United States each year. There are 18 distinct kinds and 400 varieties of cheese for the user. People on this side of the Atlantic do not eat enough cheese. The per capita use in America is about 5 pounds per head per annum. The Swiss eat 20 pounds per person, the French 16 pounds and the Dutch 15 pounds.

WINNING CONTRACT

By the Four Aces

(David Bruce Burnstone, Merwin D. Maier, Oswald Jacoby, Howard Schenken, world's leading team of four, inventors of the system that has beaten every other system in existence.)

COMPARISON OF RESULTS

Duplicate Bridge
North, Dealer
Neither side vulnerable
♠ A J 8 7 6 3 2
♥ A 10
♦ J 10 9
♣ J

♠ Q 4
♥ K Q 9 8
♦ 7 2
♣ K 6 4

♠ K 10 9 5
♥ 6
♦ K Q 8 7
♣ 5 3 2

The bidding:
North East South West
1♠ 2♦ 3♣ 3♥
3♠ Dbl. 3NT Dbl.
Pass Pass Pass Pass

In the duplicate game in which this hand was played three South players to our knowledge wound up at three notrump. At the three tables observed the bidding was somewhat varied, but in each instance West opened a diamond with dummy playing the nine and East the Queen.

At Table One, South promptly won the trick with his diamond Ace and was then set several tricks for he had no re-entries for his long club suit. At Table Two, South allowed East to hold the first trick with his diamond Queen. East returned a low diamond and South naturally played low again, then established his club suit to make his contract.

While South made a mistake at Table One and East at Table Two, both players sitting in these positions at the third table were in perfect form. South permitted his opponent to win the first trick with the diamond Queen, but this particular

East player decided that it was of paramount importance to kill Declarer's re-entry. There was only one way to do this; East played his King of diamonds, literally forcing South to win the second trick in his hand. The result turned out to be the same as at Table One, but the players involved certainly put up a more interesting performance.

Merwin Maier was your partner yesterday. Both sides were vulnerable and your holding was:

♠ Q 10 x
♥ x x
♦ A J x x
♣ K x x x

The bidding:
You Burnstone Maier Schenken
Pass Pass 1♠ Pass
(2)

Answer: Since you were not strong enough to open the bidding, your strength is limited to less than an opening bid. Hence your partner is not required to rebid a minimum and your correct bid is two spades.

Score 100% for two spades, 70% for three spades (a slight overbid), 40% for two diamonds (partner may pass even with two small diamonds), 0 for any other bid.

Question No. 119
Both sides are vulnerable. You are Howard Schenken's partner and hold:

♠ A K x x x
♥ x
♦ K J x
♣ x x x x

The bidding:
Jacoby You Burnstone Schenken
Pass 1♠ Pass 3♥
Pass (?)

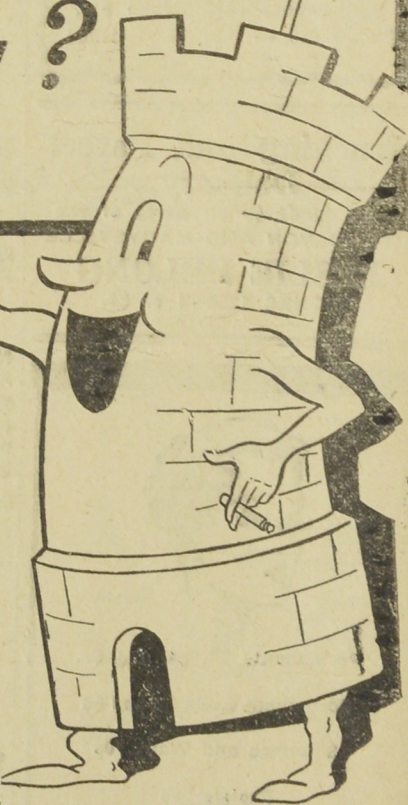
What do you bid? (Answer tomorrow.)

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