## Storing Tomatoes

For best results with CA

storage, growers should

select firm, mature green

tomatoes of either Longred

will keep for substantially longer periods in controlled atmosphere (CA) storage than when stored in air, says Agriculture scientist. A controlled atmosphere storage is a gastight chamber in which the levels of carbon dioxide and oxygen can be maintained at desired researcher.

C. L. Lockhart, a speciallist in storage diseases dioxide in a CA chamber storage chamber. of fruits and vegetables at has a tendency to stimulate the Canada Agriculture Fusarium rots, these can be Research Station, Kentville, controlled fairly effectively N.S. says studies at the in the stored tomatoes by station have shown that use maintaining the relative of CA storage, in which humidity at 90 to 92 per there is provision for cent. Satisfactory control of humidity control, will lengthen the storage period for the tomatoes by two to Results were best with wraps. These wraps, however, are not registered

the tomato varieties Longred and Viscount which, the researcher found, were better suited to controlled atmosphere storage than were the varieties Harrow, Scotia, Quebec, John Baer, or K65, an unnamed seedling.

or Viscount variety and the fruit should be free of At Kentville, tomatoes cracks or insect damage. were stored for four to eight To avoid chilling and weeks in a CA chamber with a temperature of 52 degrees the risk of Alternaria tenuis injury that could increase F. and a relative humidity rot during storage, the of 90 to 92 per cent. The tomatoes should be fruit was then ripened for harvested before night seven days in air at a temperatures dip below 50 temperature of 72 degrees degrees F. F. and a relative humidity At the Research Station, freshly harvested tomatoes

of 90-95 per cent. In two successive seasons, tomatoes stored in this before being put in a CA manner had fewer rots, chamber which was then better flavor and were sealed and flushed with

air, the researcher reports. oxygen level to three per the Guernsey Breed was be made by the English Controlled atmosphere cent. This level was evident in the Twentieth storage will reduce many maintained by pinhole vents Annua! "All Canadian" fungal rots such as in one side of the chamber.

control Alternaria tenuis dioxide produced by the rots. A solution to the latter tomatoes and maintain the problem has yet to be level of the gas at three per worked out, explains the cent. A small household dehumidifier served to Although the increased maintain a relative humidity concentration of carbon of 90-92 per cent in the

COLD WEATHER PLANTS

breeding to increase by Henry Borden, Tannery winterhardiness and studies Hill Farms, King, Ont.; Four of the proteins of wheat and Year old Cow, Del Eden growth regulators.



## "All Canadian" Guernsey

Competition. A total of 37 anthracnose, grey mold and Dry lime scrubbers were animals were nominated

went to Ontario and B.C. The First Place Winners were: Bull Calf Class, Queenholm Champion's Mark owned by Lloyd and Betty Balsdon, Queensville, Ont.; Yearling Bull Class, Federeau Darimost Don, owned by Leo Federau, Kitchener, Ontario; Yearling Heifer Class, Tannery Hill C. Zenobia, owned by Henry Borden, Tannery Hill Farms, King Ont.; Two Year withstand cruel winters Old Heifer, Del Eden Jaunty these rots also has been while others die with the owned by Murray Davie, obtained in experiments at first sting of frost. Scientists Del Eden Farms, Delta, searching for the answer are B.C.; Three Year Old ortho-phenyl phenyl acetate trying several approaches. Heifers, Tannery Hill These include selective Fabulous Whimsey owned

> Delta, B.C.; Five year Old Cow, Renwood Fame's Nema, owned by Henry Borden, Tannery Hill Farms, King, Ont. Reserve "All Canadian" winners were: Henry Borden, Tannery Hill Farms, King, Ontario, Murray Davie, Del Eden Farms, Delta, B.C. Canadian A.I. Units, Woodstock, Gordon T. Wilson,

Jade owned by Murray

Davies, Del Eden Farms,

Ontario. A World Conference of Guernsey breeders will be

Campbellcroft, Ontario, and

Ken Forster, Copetown,

The continued support of in 1972. Arrangements will kenya and New Zealand Guernsey Cattle Society.

A Tour of Canada is a

Delegates are expected English Guernsey planned for 1971 by from the Island of Society, in conjunct Guernsey, U.S.A., Canada, the Canadian Guern Penicillium but will not used to absorb carbon from 17 herds. Top awards Australia, South Africa, Breeders Association

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#### ursday, April 23, 1970

# Prairie Weed Control

This could be a critical year for weed control on There will be a shift of

the prairies, according to weed specialist J.J.Sexsmith of the Canada Agriculture acreage out of wheat and Research Station at 'Weed control patterns Undoubtedly, there will should shift with the

e a tendency to spend as Mr. Sexsmith. 'I'm concerned that such

with the less expensive 4-D.' says Mr. Sexsmith.

changes in land use,' says

Agriculture is one of the subjects taught to senior students in the Hagersville Secondary

Grade 12 student, is shown in the greenhouse where the care and growth of flowers is used to teach the subject.

into summerfallow, aware that, while 2, 4-D in check could be even more grassland, and other crops. may be adequate for control costly. of some annual broadleaf 'They'll stay around to weeds, it won't control haunt you in the years resistant species such as wild ahead, cutting yields and buckwheat, smartweeds or quality.'

cow cockle. 'For those For weed control in crops cereal grains, there will be weeds, farmers will need other than cereals, Mr. the temptation to get by something other than 2, Sexsmith says it's absolutely essential that the best

prairie farmers could be selective herbicides this 'Control for these possible herbicides be used. weed killers intelligently year, herbicides such as 2, resistant species will cost Farmers who don't use and that they apply them at more, but over the long run, the correct herbicides may the correct time and in the But farmers should be failure to keep these weeds experience:

> Losses resulting from Greater difficulty in

harvesting of crops. Greater problems in the

ollowed carefully. More detailed year Mr. Sexsmith adds information and advice is that farmers who use available from local herbicides must make provincial government

compared with a herd of

Hereford cattle, the most

prevalent breed in the

Canadian west. Both herds

receive identical treatment:

both are selected for

At weaning in 1968,

Hereford bulls averaged 406

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researches have been obtaining from their cross-breeding program at Ross Ranches Ltd., Dr. Lavon J. Sumption Manyberries, Alta. The project is a

co-operative one between the ranch and the Canada Agriculture Research Station at Lethbridge. The crossbreds are a

combination of Brown Swiss, Hereford, Holstein, Red Angus and Shorthorn As a measurement of

progress, performance of

pounds compared to 470 crossbred heifers averaged 450 pounds, the Hereford heifers 367. When the 1968 calves were weighed as yearlings,

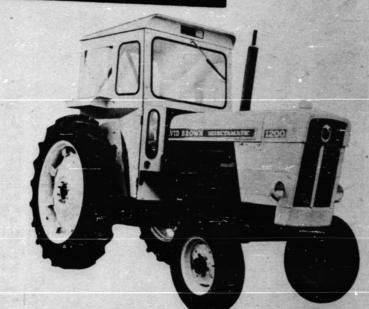
found that Hereford bulls averaged 737 pounds compared to crossbred bulls averaging 847 pounds. The yearling Hereford heifers averaged 463 pounds; the crossbreds 555 pounds.

At the 1969 weaning, all herd averaged 373 pounds compared to a 478-pound average for the crossbred calves - a difference of 105

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