



YOU'RE TOO LATE-WE'VE HAD OUR SWIM

The law caught these two young swimmers unaware at a fountain in Memorial Gardens in Stratford, Ont., but they didn't seem to mind. They had already had their fun, romping in the water.

FACTS FOR FARMERS



Windbreaks, Shelterbelts Save Soil, Boost Crops

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There has been a tendency in the past few years when farm size and field sizes are increasing, to cut down line fence spruce belt-rows. This practice, although it does tend to make farming more efficient, has some detrimental effects. These effects are on crop production and on soil conditions in our pro-

WIND VELOCITY
The problem is wind. Prince Edward Island, situated in the Gulf of St. Lawrence, seldom has a calm day. The average daily wind velocity over a period of years has been about 15 miles per hour. The average daily velocity from April 1, 1956 to February 28, 1966 was 16.6 miles per hour. The average speed for one hour for November, December, January and February was 66 miles per hour, whereas the average maximum speed for one hour's duration for the remaining months was 40 miles per hour.

BENEFITS FROM SHELTERBELTS
Shelterbelts reduce wind velocity, wind erosion and the chemical damage to plants. They also influence factors such as temperature and humidity in the protected zone. Because of the sheltering effect of the trees moisture is conserved by reducing evaporation and transpiration, the giving off of moisture by a plant. Extra moisture is also trapped in snowdrifts. As a result of such changes in the field environment, the favourable effects of shelterbelts on the growth and development of crop plants is registered at harvest. Shelterbelts have been planted for the protection of crops and cropland for more than 50 years. The following are conclusions from research done in other countries.

GERMANY
In Germany shelterbelts increased production of small grains ranging from 6 to 19 per cent for the entire area. Hay production increased 8 per cent, sugar beets 16 per cent, potatoes 12 to 16 per cent, and green beans 37 per cent.

DENMARK
A report from the Jutland Peninsula of Denmark for narrow shelterbelts (mostly one to two rows) shows gains of 11 to 19 per cent for small grains for the area between shelterbelts, 16 per cent for potatoes, 23 per cent for sugar beets, and 21 to 24 per cent for fodder crops such as alfalfa, clover and grass.

ITALY
Wheat yields in Italy improved about 18 per cent in a zone between 20 to 275 feet as a result of protection by 16 to 23 foot shelterbelts.

RUSSIA
In Russia reports indicate that shelterbelts increase production of small grains from 10 per cent and up, whereas grasses and clovers show an increase almost doubled, as also did many vegetables.

UNITED STATES
In North America many farm-owners and government planners of the United States and Canada consider that shelterbelts increase crop yields. In Alberta the conclusion was that the belts have a favourable effect on crops to a distance of 250 feet.

EFFECT ON GROWTH
Shelterbelts also have a favourable effect on tree growth. Especially significant is the fact

played by the climate in limiting forest vegetation and especially, economic forestry. The effect of wind on trees is both physical (height, shape, etc.) as well as where trees grow. This latter effect determines how far north there are forests and it has been suggested that it is not the mechanical force of the wind nor the cold, or salt content or atmospheric humidity which limits the growth of forests but rather it is the continual drying out of the shoots. This drying lasts for many months at a time when the tree is unable to replace the water loss. The drying power of the wind produces the same wilting effects as drought and increases when the activity of the roots is diminished by coldness or freezing of the soil. At these times the plant cannot absorb water as fast as it is being removed. The height to which plants are able to grow is limited by their ability to transport water upwards at a sufficient rate to counteract losses through transpiration—the giving off of water by a plant. Wind speed above ground and therefore, the tallest plants, suffer the most from drying out.

This explains why in extremely exposed places tall vegetation is missing and why trees are smaller on the exposed side of a stand than on the protected side. The pattern of woods adjoining the coast and the dwarfing and deformation of the exposed side of forest areas and the gradual increase in height towards the inland areas are due more to the drying effect of the winds from the sea than from their salt content. The death of plants from winter killing is very frequently the

result of drying out rather than directly from low temperatures. In this way plants which are capable of enduring much lower temperatures than those of the same species which are fully exposed. The continuity of wind is the factor which has the most effect on the kind of vegetation. In Central Europe winds with an average velocity of 7 to 33 miles per hour are considered to be the most destructive of vegetation. Winds with a velocity of more than 16 miles per hour are capable of destroying shoots which have not yet become wood.

It seems from research which has been done that shelterbelts have the effect of:
(1) cutting down wind velocity
(2) cutting down wind erosion
(3) cutting down mechanical damage to plants
(4) conserving moisture by reducing transpiration
(5) trapping extra moisture in snowdrifts.

Before fields are indiscriminately enlarged and shelterbelts removed, the farm operator should consider the effect this removal will likely have on crop growth, on moisture, and on crop conservation, and on crop yield.

For further information, contact the author at the New Provincial Building, Rochford St., Charlottetown or P. O. Box 2000, Charlottetown.

TO BEAUTIFY MONTREAL
MONTREAL (CP)—City of Montreal officials have announced they will set up a five-man Montreal beautification bureau to enhance the city's appearance and remove building eyesores before the 1967 Montreal world's fair. The bureau's principal function will be to suggest ways of beautifying property and illustrate the ideas with sketches and photographs.

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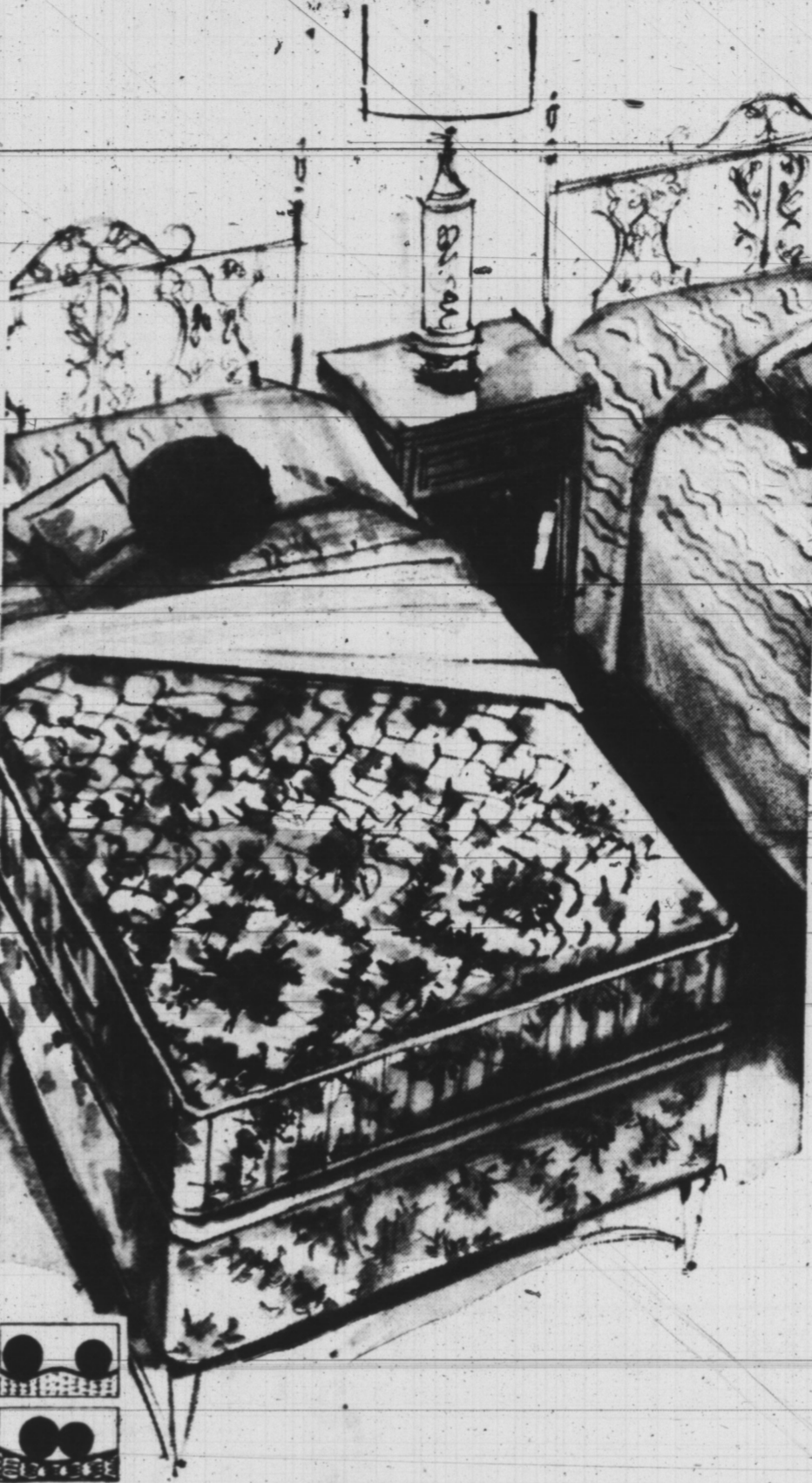
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Viking 12.3 Cubic Foot Net Refrigerator Freezer

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Eaton's Price **279.95**

Viking Economy Model Wringer Washing Machine

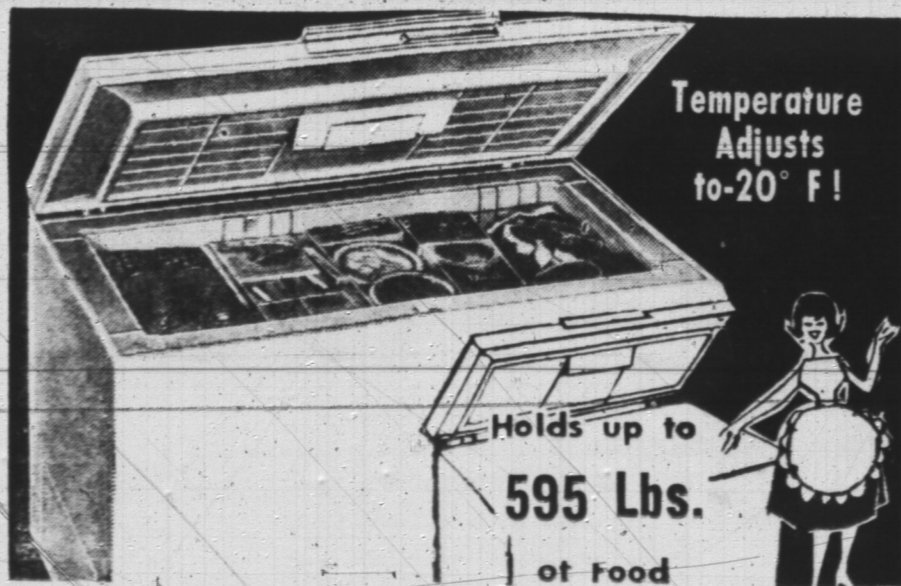
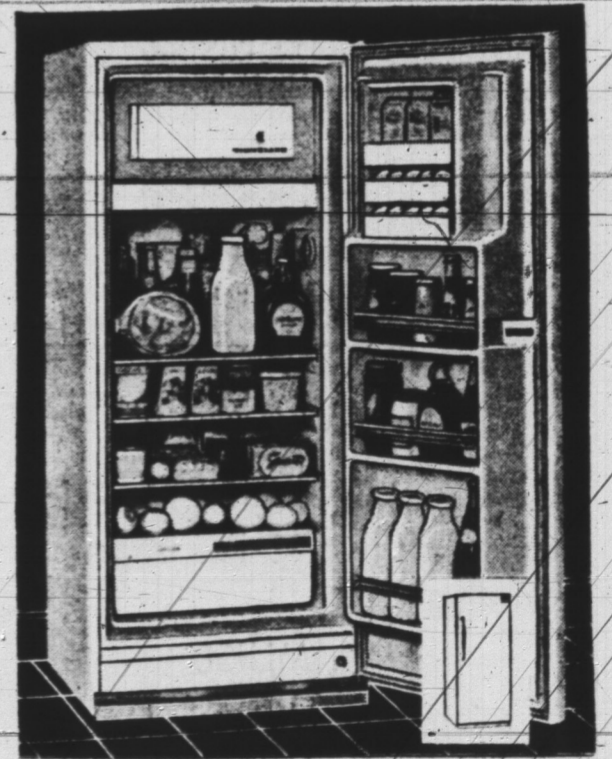
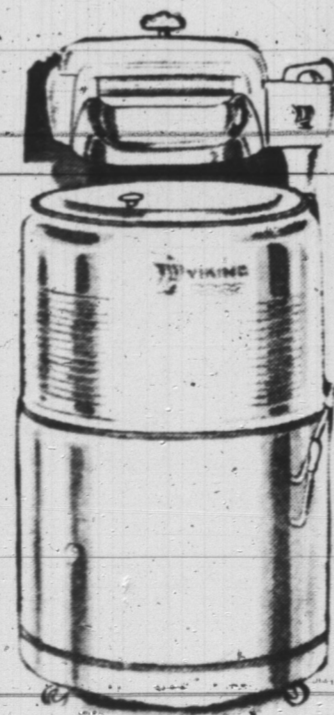
Our lowest priced wringer model. Porcelain enamelled tub with 9 lb. dry clothes capacity two-way wringer with safety release, 2 inch diameter roll spring apart at finger tip pressure. Complete with pump. Exterior finish is white acrylic enamel.

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