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Food Freezing Studied

Since the middle of the last er portion control cuts. century, scientists have worked variety.

Even the Romans knew that manufacturing industry. ice could preserve food. The problem was preserving the ice.

supply-until science stepped in goods. about a century ago to prove the feasibility of freezing food.

in the past 25 years the frozen food industry has swelled its output from a mere 580 million dropped. pounds to over 11 billion pounds in 1966.

By 1976, some envisage a frozen food output of 24.6 billion pounds—a 124 percent gain over

Today, about the only important fresh products not being frozen commercially are bananas, pears, tomatoes, lettuce, and other salad greens. But it probably won't be long before food scientists solve the problems of freezing them, too. They're already working on tomatoes.

In recent years frozen cooked and prepared foods, to be reheated at home, have been rapidly winning consumer acceptance. These include full course dinners, casserole dishes, specialty foreign style foods, and bakery products.

Here's a brief look at the history and present situation of frozen foods in the U.S.

Poultry. Commercial freezing of poultry began around 1865, and in 1870 six carloads of chickens were frozen in Wisconsin and shapped to the New York

Today, about 25 percent of our total poultry production is frozen-mainly turkeys, ducks, and geese. This enables producers to cope with the more seasonal demand for these birds.

The year-round demand for fresh young chickens is such that only about 10 or 11 percent of them are frozen commercial-

Many homemakers still prefer to buy chicken fresh and store it m the freezer at home. But recent studies show that commercially frozen chickens are gaining in popularity.

Use of all classes of poultry has risen more rapidly in the last 20 years than that of any other food category—from 25.5 pounds per capita in 1945 to 44 pounds in

Eggs. In 1890 someone decided to try freezing eggs — removing cracked or soiled shells and freezing the contents. When bakers used them and found they worked as well as freshly broken eggs, their acceptance was assured.

Today preshelled frozen eggs are sold in quantity to manufacturers of food products Eliminating the breakage step reduces the manufacturer's processing and labor costs

Red meats. Trappers and early settlers and farmers froze red meat in cold climates to preserve it through the winter and pond ice came in Snow

handy In 1867 the first successful shipment of frozen beef was made in the United States-from Indianola, Tex, to New Orleans

Production of frozen meats grew from 20 million pounds in 1945 to 450 million pounds in 1964 and it continues to climb But it still makes up only a small part of annual per capita consumption—only 2 pounds in 1965, out of a total of 170 pounds

Mucn of the frozen output goes to institutional users in the form of patties, cutlets, and oth-

Deciduous fruits and berries, bought in frozen form. on perfecting food freezing. To- These include strawberries, cherday, only a few foods can't be ries, peaches, apples, and other tables continue to grow in value bought in an easy-to-use frozen fruits and berries. Most of the at a rate of about 20 percent anfrozen pack is used by the food nually.

and berries were being frozen peas, and spinach make up over So sun drying, salting, and during the peak of the season for three-fourths of the frozen pack. smoking remained the most effi- later use in manufactured jams. Per capita consumption of fresh cient ways to protect the food jellies, ice cream, and bakery and processed vegetables has not

Per capita consumption of fruits and berries in all forms from 7 to 29 percent of the total. Progress was slow at first, but has changed little over the past 20 years-though canned use has selves, frozen potato productsrisen while fresh use has especially French fries - have

> Rate of growth in consumer one of the leading frozen foods. use of frozen fruits and berries and convenience of canned prod-

Research is underway on a encourage wider home use of until after 1945. frozen fruits and berries.

freezing vegetables were not en citrus pack has been concenvery successful. Discoloration trated orange juice. And anoth and off-flavor presented prob- er 15 percent, lemonade. lems to be overcome.

tion, and now about 10 percent son in 1965.

Sales of prepared frozen vege-

Asparagus, lima beans, snap By the late 1920's many fruits beans, broccoli, corn, green changed much over the last 20 years-but frozen use has risen

Potatoes. In a class by themgrown in popularity to become

Production soared from 3 milhas been relatively slow, partly lion pounds in 1947 to 1.2 billion because consumers have become pounds in 1965. Most of the sales accustomed to the high quality are for institutional and restaurant use. Only 20 percent of the 1964 pack went to retail stores.

Citrus fruits. The newest prodnew thaw pouch-similar to that ucts in the frozen food market. already used for cooking some concentrated citrus juices did frozen vegetables-which should not attain any significant status

In recent years, however Vegetables. Early efforts at nearly three-fourths of the froz-

Use of frozen juices has more In 1929 it was found that than doubled since 1950, reachblanching would stop the enzyme ing the equivalent of almost 30 action that caused the deteriora- pounds of fresh fruits per per-

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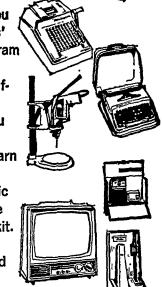
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