New Sweetened Cream Product Can Be Held Without Refrigeration

that keeps well unrefrigerated, of Ice Cream Manufacturers meetjust as do sweetened condensed ing in San Fiancisco, Calif Since , nd evaporated milk, is a promis- lice cream manufacturers now use ing new product of dany re- much frozen cream as a source scarch

The manufacturing process is a simple one that any well-equip ped dairy plant can carry out It produces a sweetened cream product containing 40 per cent butterfat, additional nonfat milk selids and sugar in sufficient concentration to preserve it at room temperature for at least six months Further storage tests are under way

Delicious ice cream can be made when the product is used as the source of milk fat lt can be whipped, or used as a source of cream and sugar in coffee and Pale yellow in in other ways color, it has a consistency and flavor much like those of sweetened condensed milk, however, it 15 less sweet

Dr. Arjen Tamsma, chemist of USDA's Agricitural Research Service, described the new product



Sugar preserved dairy cream, to the International Association of milk fat in their mixes, the new unfrozen product could save them considerable expense and frozen

storage space Dr Arjen Tamsma and Dr Raymond W Bell - both engaged in USDA research in Washington, D C, to increase and improve use oi dairy products - are chiefly responsible for development of the cream preservation process A public service patent for the product and process has been ap

plied for The cream remains stable for the same reason that jams, jellies, syrups and honey do - bacteria cannot grow in a concentrated sugar solution To fresh cream with a high fat content are added nonfat dry milk and cane sugar The mixture is stiried and heated until pasteurized, and packed while warm Vacuum packing is desirable. Flavor remains good wnen stored at about 60° F, although it is acceptable after months of storage at higher temperatures After being opened, it remains usable without refrigeration for at least a week, or longer if kept in a refrigerator.

The product takes added flavor orange, lemon, and other fruit tests

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and nut flavors. Some of the Virus Diseases Least Understood scientists think caramelization (heating at 240° F for 11/2 hours) gives a pleasing butterscotch flavor

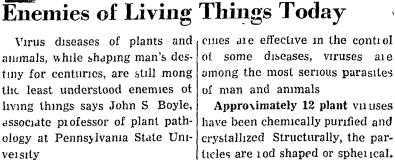
In addition to its use in ice cream, it can be diluted with milk and used on breakfast cereals and in coffee and tea. It fuinishes stable, easy-to use butterfat for baking and candy-making, and might become a soda fountain or export item It might be welcome wherever refrigeration is limited or lacking - on planes and boats, in camping, in the armed services and for stocking air raid shelt-

Equipment for producing the cream product is simple, any wellequipped dairy plant would have it Only a cream separator and pasteurizing and packaging euip ment are required

The final product contains about 30 per cent sugar, 10 per cent nonfat milk solids, 20 per cent water, and 40 per cent butterfat (Whipping cream contains 30 per cent buttersat, coffee cieam 18 per cent)

Packaging of the product has not been worked out by the developers, but should not present difficulties It has kept best for them in tin cans from which air was evacuated before sealing Containers of glass or of plastic are other possibilities since the Department has developed the product and demonstrated its practicality, it is expected that commercial and perhaps other research agencies may develop their

own packaging, recipes, and conwell, without masking the taste of sumer acceptance and marketing



'Viruses might be called the things, except no one is sure that tney are alive," Dr Boyle states only within living cels," he explains.

Viruses cause human diseases, such as mumps, measles, small pox, yellow fever, polio, influenza, and other diseases While vac-

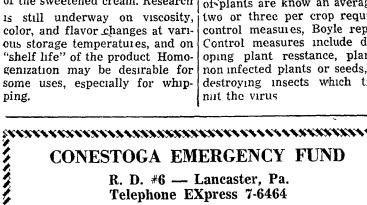
Froportions of ingredients can be varied rather widely without destroying the keeping qualities of the sweetened cream. Research ping.

Virus diseases of plants and cines are effective in the control animals, while shaping man's des- of some diseases, viruses are tiny for centuries, are still mong among the most serious parasites of man and animals

Approximately 12 plant viruses have been chemically purified and ticles are 10d shaped or spherical. Most recently, cientific reports smallest and simplest of living indicate that the tobacco mosaic virus may be disassembled and reassembled This excites the im-"They don't grow, they have no againation. Dr Boyle points out. respiration, and they multiply Viruses are so smal that they pass

through bacterial-proof filters Tobacco mosaic vitus was recently shown by Dr Boyle to be the cause of internal browning of tomatoes, a disease which has caused great losses some years in Pennsylvania canning crops This virus attacks bothtob acco and tomato plants This is not the only known case where a virus attacks more than, one species of plants or animals

Several hundred virus diseases of plants are know an average of two or three per crop requiring control measures, Boyle reports. Control measures include developing plant resstance, planting non infected plants or seeds, and destroying insects which transnut the virus



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