## **Scientists Develop Process** For Fortifying Milk With Iron

ed by US Department of Agri- duals in a number of sex-age culture scientists may make it groups are most often low in possible to fortify pasteurized non and calcium This is eswhole milk with iron while pecially true of individuals in avoiding the metallic flavor en low-income brackets countered in the past

tural Research Service experi of whole fluid milk consumed menting with several non com- during one day by individuals pounds have found that, by in the various sex-age cateusing a solution of ferrie am gories estimated 10 milligrams monium citiate of ferric choline per quart of milk as the amount citiate milk can be fortified at the rate of 10 milligrams of iton per quart without develop ment of objectionable off flavors over a storage period of 15 days the normal life of pastennized milk

were prompted by results of a USDA food consumption survey

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A new process now being test- showing that diets of indivi-

ARS food economists, using Chemists in USDA's Agricul- survey data listing the amount of additional iion needed to bring these ii on deficient diets within acceptable limits of the Recommended Dietary Allowances for non established by the Food and Nutrition Board of the National Academy of The milk fortification studies Sciences National Research Council

> Some States permit the addition of iron to milk pioducts

that will be consumed in a few days, such as multivitamin and mineral milk, while nine States foi bid any type of iron fortification of milk Iron is also added to certain dietary products containing vegetable fat in place of milk fat, since little or no fla- rated samples containing iron presence of vegetable fat. How- pasteurization (166 degrees F) able flavors in the milk and milk products.

milk is first "deodorized" by added before heating to this vacuum treatment to remove feed flavors The iron compound, which has been dissolv. processing standpoint, the ARS ed in water (one milliliter of scientists say it would be betof iron), is added with thorough teurization if the normal passtiriing either before or after pasteurization All samples are then homogenized, cooled, and

stored at 40 degrees F. Samples of the iron-fortified milk using various pasteurization temperatures and different sequences for adding the iron — whether before or after pasteurization — are tested for the effect on flavor

Taste panels to date have



Quality

consumers want.

bad for two weeks

Growers and

cured the modern way.

(Continued from Page 1)

Quality must be consistent

cellent for two weeks and then

PINNING RIBBONS at the 1968 Lan-Chester Pony Club Show. The 1969 show is scheduled to be held Saturday, May 3, at the John Gibson Farm at Drumore. Starting time is 9 a.m. and 100 horse and pony entries are expected.' Anyone who would

vor hazard is involved in the added before or after normal

ever, it has not been possible to to be about equal to controls in younger person will prefer ham to a market. add this nutrient to whole, beverage acceptability. Samples fluid milk without oxidative containing iron added after changes resulting in objection- heating to 188 degrees F. were also considered of beverage

quality, but had a diminished In the current experiments, acceptability when the iron was temperature From a practical the pack has quality. solution contains 10 milligrams ter to add the iron before pasteurization temperature is used. should supply markets with the product has quality.

like to enter may still do so by calling Mrs. Francis Hill, 786-3193. Also planned for June 16 to 22 is a Regional show where 200 children from Eastern Pennsylvania and New Jersey will compete. This show is also to be held at the Gibson headquarters.

> quality the markets need. A 500-pound potato may win a prize at a fair but is of no value

A housewife is the final judge Growers too often are inclinof quality. She will buy a proed to believe they know what duce again and again if satisfied.

When consumers come back This diametric opinion was for a certain pack of potatoes expressed by another conferee: even though the potatoes cost a housewife does not know twice as much as No 1s - then quality and does not know how to judge it.

Pennsylvania should try to To sell, a product cannot be ex- correct variabilities in quality. Regardless of a product's

quality, a salesman has a lot to producers do in convincing a customer a



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