### **Predicting Moneymaking Sires**

is easier than ever thanks to re- above the breed average, use of peatability estimates now pro- that buil returned \$3.22 per vided with sire evaluations.

developed by ARS researchers, costs. foretell how accurately the sire future progeny.

\$20 per cow or more.

siring daughters with a certain level of milk production. The million. summary is a composite rating Dickinson and B. T. McDaniel, of daughters already sired by a particular bull; it compares their milk production with that of other bull's daughters in the same

bulls may have the same nu hours per year on a record merical sire summary even if search can readily identify +400 one has daughters with more ex- pound bulls that suit his other tensive and meaningful records prerequisites.

This is so, first, because cows in the herd to which a bull's daughter is compared may all • Have You Heard? be daughters of a few unrepresentative bulls with genetic capacity above or below the breed getables or fruit on the skewer. average. Furthermore, daughters in a single herd seem to perform more similarly than do and vegetables close together daughters distributed over sev- on the skewers. eral herds because cows of a herd are managed and housed alike. Thus, records on bulls increase in value as their daugh-ham, bacon, luncheon meat, ters are more dispersed. Five daughters in separate herds, for example, provide data for sire lops. summaries as valuable as 20 daughters in one herd.

Secondly, cows can better express their true genetic milk banana chunks, onions, potatoes, producing ability as the number tomatoes, mushrooms, carrots, of their yearly production records increase. ARS calculations olives. show that a cow with three records should be rated 50 percent skewer have the same cooking higher in the sire summary than time. cows with a single record.

The repeatability estimate, when applied to a bull with rec- always in the air but need moisords including extensive and varied information, will indicate to grow. with near certainty that future progeny will be as good as the from which it can get enough summary predicts For a young food including leather, plasterbull, the new information gives ed and painted walls, wallpapodds on whether his progeny er, and upholstered furniture. will be better or worse than the summary predicts

to dairymen is shown by com- or putting them in a hamper. puting the production records of using average U.S. milk prices fan or heater in damp for 1966. When DHIA records also reduce risk of mildew.

Distinguishing a superior predicted that a bull would sire dairy bull from a mediocre one daughters producing 100 pounds daughter in extra profits, ex-These "confidence indicators," pressed as income above feed

Bulls in the Nation's artificial evaluation or summary, can pre- insemination program have an dict the performance of a bull's average predicted advantage of 151 pounds of extra milk in Research shows that sire sum. their daughters' production maries, are valuable; dairymen an advantage worth \$4.86. Dairywho use them effectively may men can do even better by repotentially increase income by stricting semen collection to \$20 per cow or more. Prepared by ARS scientists from data collected by the Dairy Herd Improvement Association (DHIA), the sire summaries indicate the likelihood of the prices, with accrued profits to dicate the likelihood of a bull prices, with accrued profits to the U.S. dairy industry of \$141.7

ARS dairy researchers F. N. who directed this study, say that there are enough +400 pound bulls available today to meet the needs of almost any dairyman who requests them. They add Mathematically, however, two that a dairyman who spends' 3

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Cook meat thoroughly, or for

There is no limit to combinations of foods you can use for

For meat you can use: beef, frankfurters, sausage, bologna, liver, lamb, shrimp, and scal-

For the other ingredients try: pineapple, orange sections, crab apples, prunes, apple slices, peppers, celery, pickles, and

Be sure foods you use on the

#### Prevent Mildew

Molds that cause mildew are ture and certain temperatures

Mildew will grow on anything

Prevent mildew by removing dampness Allow clothes to dry The value of sire summaries before storing them in a closet

Leaving a light burning in 182 cows in the Beltsville herd, the closet or using an electric

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