

Plant screening system developed

BELTSVILLE, Md. - A new screening procedure to help plant breeders evaluate strawberries and red raspberries for rot-resistance has been developed by USDA's Science and Education Administration scientists.

Plant pathologists John L. Maas and Wilson L. Smith, Beltsville Agricultural Research Center, have devised a procedure for evaluating berries for

resistance to Botrytis cinerea. This fungus is the primary rot-causing organism in berries and accounts for annual multi-million dollar losses throughout the industry.

The researchers have developed a system in which berries are held for three days at 18° to 20° C. with 90 per cent humidity. These conditions are ideal for decay development, and provide a standard environment in which to

evaluate berries for Botrytis infection. Berries showing extremely low levels of rot are considered to be fruit from plants with fungus resistance.

Plant breeders heretofore have made their evaluations in the field by picking out those plants with certain desired characteristics - color, leaf formation, overall appearance, etc. But Botrytis development is very erratic. Its development varies almost daily

depending on weather, temperature, humidity, and geographical location. This affects what the breeder sees and what he selects.

The new, standardized system is a refinement and sophistication of an approach developed in 1970 by the Canadian Department of Agriculture. It is expected to help plant breeders make more rapid and accurate screenings that can lead to breeding rot-free fruit.

Up to now breeders have had no refined screening techniques that would enable them to measure small differences in clonal resistance. This is necessary in order to breed for resistance by successively accumulating low levels of resistance.

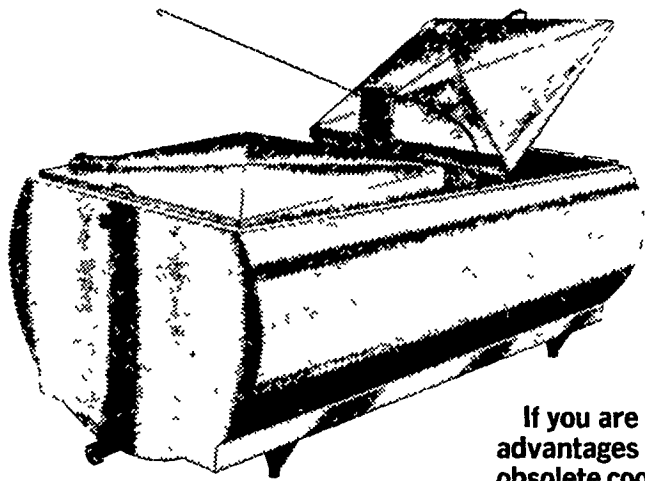
Maas and Smith explain that, with some modification the technique may provide the basis for applying similar methods to other fruits.

Grind Your Own

Grind your own beef whenever possible and practical. By trimming bone and fat from chuck roast and grinding it yourself, you can usually obtain a ground chuck that is leaner, tastier and costs less per serving than you would pay for it already ground. And as a bonus, you have the bones left to use in making soup stock.

ORDER NOW!

MAKE ME A BULK MILK COOLER THAT HAS EVERYTHING!



AND SAVE WITH THESE EARLY ORDER COUPONS:

\$500 OFF
ANY NEW TANK
 ORDERED BEFORE
 JANUARY 1, 1979

\$200 to \$500 OFF
 (Depending on Size)
ANY NEW DIESEL ENGINE
 ORDERED BEFORE
 JAN. 1, 1979

MUELLER
 Bulk Milk Coolers

THE MUELLER MODELS OH, MHL, AND MW WITH HIPERFORM MAKE ALL OTHER BULK MILK COOLERS OBSOLETE

SEE THE MUELLER NEW MODELS

★ **500 MW** ★ **600 MW**

The "MW" is one of the Lowest pouring Height Bulk tanks. Check with us all the new features of the "MW" bulk tank.

If you are in the market for a bulk milk cooler and you don't check all the advantages of the Mueller "OH", "MHL", and "MW" you may be buying an obsolete cooler.

USED TANKS

300 gal. Mueller
 375 gal. DeLaval
 400 gal. DeLaval
 1 600 gal. Milkeeper

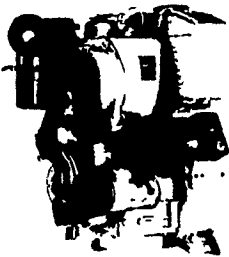
500 gal. Milkeeper
 350 gal. Esco
 425 gal. Esco
 500 gal. Mojonnier

600 gal. Mojonnier
 400 gal. Dari-Kool
 200 gal. Girton
 D-2 600 gal. Girton

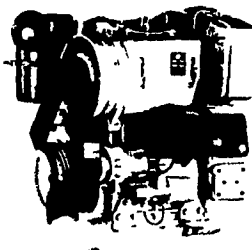
D-2 400 gal. Girton
 500 gal. Wilson
 2-400 gal. Jamesway

CONTACT QUEEN ROAD REFRIGERATION TO SEE A **MUELLER FREE HEATER** IN OPERATION, RIGHT ON THE FARM.

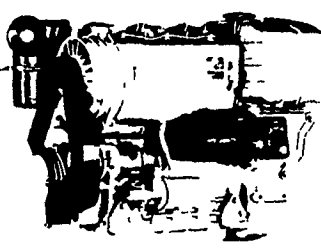
1050 SU SERIES



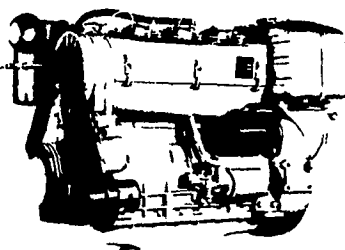
2800 R.P.M.
 22 SAE HP
 20 DIN HP



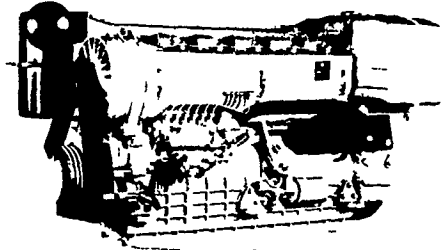
2800 R.P.M.
 44 SAE HP
 40 DIN HP



2800 R.P.M.
 66 SAE HP
 60 DIN HP



2800 R.P.M.
 88 SAE HP
 80 DIN HP



2800 R.P.M.
 132 SAE HP
 120 DIN HP



FOR MORE INFORMATION ON HIGHER H.P. - CALL US!

USED DIESELS

- 1-Cyl. Deutz
- (4) SR2 Lister
- 1-Bamford
- (4) DVA 1500 Slanzis
- 1 - ST2 Lister
- 3-Cyl. Perkins

THE "RIGHT FROM THE START" DIESEL ENGINE LINE FOR FAULTLESS PERFORMANCE.

QUEEN ROAD REFRIGERATION

Box 67, Intercourse, PA 17534
 Phone: John D. Weaver - 717-768-9006 or 768-7111
 or Answering Service - 717-354-4374

24 HOUR SERVICE