Electronic Gadgets May Soon Help Processing Tomato Inspectors

By John N. Yeatman and Arthur P. Sidwell

Most of us have about as much trouble judging a tomato by the looks of its skin as we do a book by its cover.

Sometimes Federal-State inspectors have the same problem. They grade tomatoes used for processing by Judging outside color and defects. In doubtful cases, they cut the tomtoes in half and check the color of the flesh. But this inspection is entirely subjective.

vestigating possible ways to de- from defects. velop more objective grading. Already, they've found it is pos- th ebasis of color alone are imsible to evaluate tomato quality practical, if not impossible The by objective color analyses comments, bined with a subjective estimate however, would make color subof defects

Since color is one of the most important factors indicating the It may also be possible, through on this aspect of inspection They tent of defects. At present, into objectively measure the color spectors also base their grades on of raw tomatoes

tested under field conditions A more objective analysis could

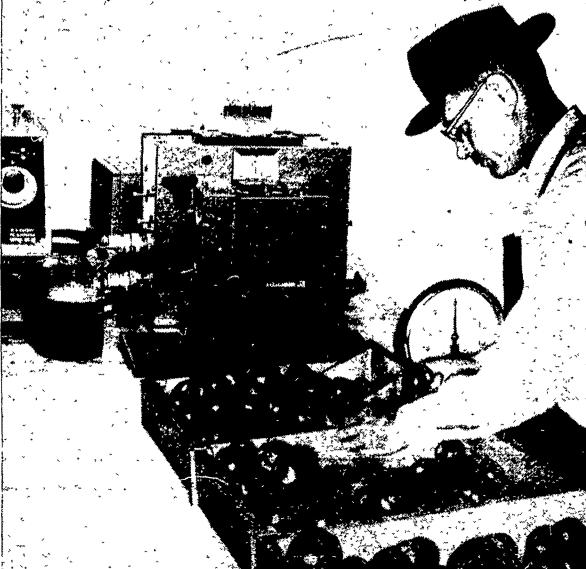
system, inspectors place toma measured on the instruments. The tomato products in either of percent of defects, would deter extracted and compared with standard col-

Scientists in the Marketing Re- No. 2, or culls. These three sepsearch Division of the Agricul- arations are based on a combitural Marketing Service are in- nation of color and freedom

> Any additional subdivisions on divisions more feasible.

quality of tomatoes, researchers current research, to establish new first concentrated their attention procedures for evaluating the ex psed photoelectric instruments discolored growth cracks, shrivel f raw tomatoes and range molds, decay, sunburn, sun-Five of these instruments were scald, freezing, and so forth.

They measured small differences be made by considering defects in the color of the skin flesh as a single factor and then comard raw juice From these tests, bining this with a value for col researchers found that raw to or This could be done by selectmatojuice offered the most proming samples from the load and using method of objectively eval-removing the defects Sub-sam ples could then be selected and taree grades-U.S. No. 1, U.S | mine the quality of the load.



Under the present inspection the juice extracted, blended, and GRADING OF TOMATOES may soon be toes for manufacture of strained color value, combined with the done with machines like this. The juice is

ors by the photometer. This is in addition to the usual exterior quality inspection given the vegetable. (USDA Photo)

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AMS researchers are also study. Broilers, Friers to Be ing methods of sampling They've looked into expected sampling errors with variations in the number of hampers selected from the loads and in the number of tomatoes selected from the hamp-

This rather extensive research into all phases of color and defect analysis has demonstrated that a new inspection procedure is possible. Some day such a method may supplement or replace the present grading procedure.

A more detailed account of the AMS work on objective tomato grading wil be published this spring in a marketing research report entitled "Judging Quality of Tomatoes for Processing by Objective Color Evaluation with Subjective Estimation of Defects"

Farm Calendar

Eastern States membership meeting — 7.45 p.m at Pequea Valley High School April 7

4-H County Council — 7 30 p.m at the home of Donna Heckendon, Marietta Pike, Lancaster.

New Holland Con Club — 7 3 p m. at Bank Building. April 8

Part-time farming committee-8 pm at Production Credit Bldg, Roseville Rd, Lancaster Emory Brown, economist from PSU, will summerize questioners

Elizabethtown - Donegal 4-H Club — 73 p m at Florin School April 8

Eastern States Membership meeting - 7 45 p m at Elizabethtown Mill Road Elementary School. April 9

4 H Guernsey Club — 7 30 p.m at SPABC, Lancaster. April 9

Miss Lynn Bracken of PSU will meet with the Elizabethtown Flower Club to discus culture of annual and periennuals - 1 30 p. m at Recreation Room, Elizabethtown Bank.

April 10 Lancaster County Bankers Assn Banquet - 6 pm at Hotel Bi unswick, Lancaster.

April 10 States Membership Eastern meeting - 7 30 pm. at Eli Hostetters, Mt Joy.

Annual Dinner, Lancaster County Bankers Assn — 6 pm. at Hotel Brunswick, Lancaster. Lititz-Manheim 4 H Club-7 30

April 10

p m. at Fairland School April 11 Boots & __ddles 4-H Club --7 30 p.m. at the home of Galen

Sweigert, Denver.

On April Plentiful List

The Plentiful Foods Office of the USDA has announced that the April list will feature broilers and

The other items on the list include canned and frozen peas, and dairy produces and honey.

Mushroom Chip Being Developed by USDA

The development of a mushroom chip is being planned by the USDA Research Lab in Philadel-

The mushroom chip will be similar to potato chips, not uncanned and frozen corn, milk like chips from a variety of vege-



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