## C Old Wives Tale?

## **Apples Exposed to Sunlight Turn Redder Than Untreated Fruit**

by selecting specific varieties. | ment of red color in apples. And | Meat Promotion Committee by dis Other farmers live in areas they found out why. In addition, where the skins seem to grow brighter. Still other growers ex- discovery that possibly relates ĥ pose apples to sunlight for several days after harvest.

Th last method - sometimes considered an old wives' tale --turned USDA's scientists into color in red cabbage and turnip detectives to seek the truth of seedlings as well as apples. By the matter. H. W. Siegleman, conducting round-the-clock ex-Agricultural Marketing Service periments (first with seedlings, hortculturist, and S. B. Hendricks, ARS chemist, started experimenting with the relationship of light watched anthocyanins develop. to color of apples a year ago.

They found the practice of spreading apples on the ground in orchards for a few days is backed by more than imagination - if fruits are of a variety capable of turning red.

They proved that light does

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Some farmers grow red apples have an effect on the develop these researchers made another

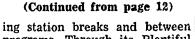
> color to breathing. First, they analyzed the red pigment. This contains anthocyanins; which are responsible for the conducting round-the-clock exthen apples) under different colors of the spectrum, the scientists

Tests were made with earlyharvested fruits with green skins -Jonathan, Rome Beauty, and Arkansas varieties — held in storage at 32 degrees F.

Different apples were placed under flourescent light for about 40 hours, then under 12 hours of light from various regions of the spectrum ranging from red to

blue-violet. This determined the effect of different wave lengths of light on anthocyanian formation. Then the apples were placed in a dark room for 24 hours to allow the red color to develop without interference of other

rays. The researchers learned that each variety of apple turned red light of the spectrum. Then, after doing more detective work, they discovered that the pigment absorbing the light appeared to sociated with copper. The combination forms copper flavo-protein. This is probably similar to



NATIONAL MEAT PROMOTION

programs. Through its Plentiful Foods Program, the United States Department of Agriculture cooperates closely with the National seminating information to consumers on meats that are in plentiful supply.

The National Meat Promotion Committee was established in the summer of 1955 to facilitate the cooperative planning of promotion activities for beef, pork, lamb and poultry interests. The committee's work has helped avoid overlapping of campaign dates and to set up preparations in advance of periods when any particular meat might be in difficulty and in need of special promotion efforts.

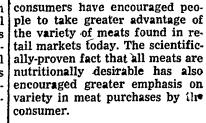
In the several campaigns-which have been carried out since the Committee was organized, it has been found that promotion for any one meat also increase the volume of sales of other meats.

It was pointed out at the recent meeting that the great variety offered by meat products tends to cut down on competitive pricing. Moreover, the high income of

the control of the animal's metabolism of fats.

Scientists believe that this copper flavo-protein within the pigfatest when exposed to the red ment of the red apples is likely to be coupled with the enzymes that burn sugar with oxygen in respiration. Experiment points the way to new questions now he related to Vitamin B-12-as- under study on the relationship of color and respiration.

So science now has a new basis for searching for ways to improve a green enzyme that appears in the quality of apples after haranimal liver and takes part in vest.





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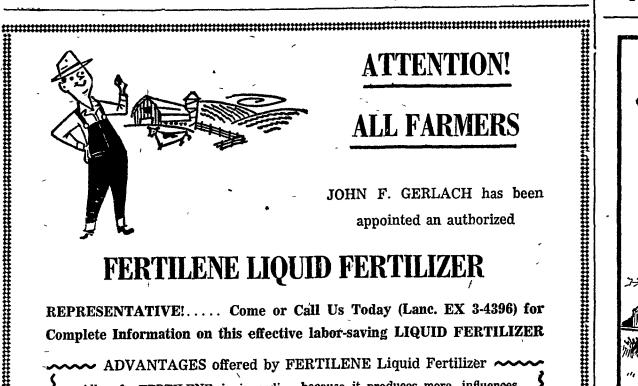


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