

## Drought effects

(Continued from Page A24)

recover until late at night. As a result, under the drought conditions, the stomates are closed and the trees produce less sugars during the daylight hours. The leaves actually draw water from the fruit," he said.

The carbohydrates needed to sustain the tree over the winter will be present in lower amounts than normal since the tree did not have the conditions needed to produce the sugars, Greene said.


He emphasized that there is always a certain amount of winter injury incurred by susceptible fruit trees, but he feels that this year the situation may be especially severe. He said apples trees, and

especially peach trees, are sensitive to fluctuations in winter temperatures and even if the county would have a mild winter, the trees would be affected if the temperature dipped too far below zero on only one or two nights.

"An apple tree would do better at a 20 degree daytime and zero night-time temperature for the entire winter," he said, comparing that to a very low night temperature and a moderate daytime one. In addition, he continued, bright sunshine coupled with 30 to 50 degree daytime temperatures can be especially bad because the sun can heat the bark of the tree as much as 30 degrees above air temperature.

Irrigating trees was a big expense for growers this year, and Greene said he feels there will be more interest in trickle irrigation since the county has experienced such a dry season.

A main difference between trickle irrigation and sprinkle or overhead irrigation, he said, is in the amount of water used. He said about 27,000 gallons of water per acre are needed to supply on-inch of water on one acre using the sprinkle method. This amount would last about one week, he noted, that compares to about 24 gallons of water a day needed to irrigate one tree by trickle irrigation.



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at 11 A.M.

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**SATURDAY, OCTOBER 22, 1983**  
9:00 A.M.

Auction will begin with tools, tractor and attachments at 11 AM. Pinball Machine at 12 Noon with furniture to follow.

1961 model 360 Farmall tractor with quick hitch wide front, PTO and hydraulic, 1455 hours (2nd owner), attachment, 3 bottom plow, 2 row cultivator, 8' disc, other farm machinery; Hay and Straw, Power and Hand TOOLS, Jacobson GT 14 riding lawn tractor, snowblower, rototiller, snowmobile, outside dinner bell, 4 play pinball machine, MODERN FURNITURE include 12 piece oak dining room suite (fine), 7 piece wood grained kitchen set, living and bedroom furniture, walnut desk with matching credenza; APPLIANCES include GE American side by side refrigerator with ice and water indoor (Coppertone); Almond color auto. washer and dryer by Hotpoint, Kenmore trash compactor, 2 RCA color TVs, and assorted stereo equipment.

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## FARM MACHINERY AUCTION

Wayne Twp., Schuylkill County, Pa.  
Sale held at the farm, located 2 miles from Route 183 at Reedsville, 5 miles south of Cressona, 9 miles from Pottsville Route 61 to Route 183 south, From Interstate I-81 take Exit 31 at Pine Grove, go 10 miles on Route 443 to Route 183. Watch for arrows to Wilbert Staller garage, take Lutz Road to Freeman Road.

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