A breakdown of the rind and the accompanying drop of Valencia oranges in Orange County this summer has caused serious losses to growers of Valencia orange groves in Orange County again this season.

The spots were sunken and of various sizes ranging from a mere speck to an area an inch in diameter was the most abundant on the shoulder portion.

Similar losses were experienced during the summers of 1930, 1931, 1934. A slight amount of the breakdown around the stem also occurred during the summer of 1933. In 1931, 1933, and 1934, 45,000 fruit were examined.

There were two weeks when the temperature was 106 degrees F., and a relative humidity of 70 percent. There were 24 percent of all other causes, but mainly from the trouble with the highest temperature in July and August.

The heaviest period of dropping was from August 18, 27.35 fruits per tree: and the week of September 2, 10.52 fruits per tree.

Injury from this cause may be very evident. The injury from this cause is as follows:

1. The spots were sunken and of various sizes ranging from a mere speck to an area an inch in diameter was the most abundant on the shoulder portion.

2. The injury from the Tortrix worm, which is previous.

3. The severe breakdown in 1934, the greatest drop, very probably plays a part in the drop later in the season.

In a consideration of the cause:

1. Fruits that had some slight evidence of visible injury appeared to aggravate the condition.

2. The severe breakdown in 1934, the greatest drop, very probably plays a part in the drop later in the season.

3. The periods of greatest drop correlated with the presence of certain organisms in the soil.

4. The periods of greatest drop corresponded to those of the highest temperatures for a period of two weeks.

5. There were two weeks when the temperature in Orange County from July 24 to August 18, 1934.

Causcs Considered

In a consideration of the causes of Valencia rind spot, it is assumed that some weakening of the rind in the area of the sunken or sunken area of spotting, the cause of the breakdown. The unripe or sunken or sunken area of spotting, the cause of the breakdown.

Similar effects sometimes follow mechanical injury such as those from insects, wind, thorn pricks, etc. The cause of the breakdown is the result of some form of spot on the stem half of Valencia rind.

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