

## HARVEST QUALITY

### Nut Looseners

Nut Looseners - G. S. Sibbett, L. C. Hendricks, W. Schreader, G. C. Martin

The work this year on ethephon focused on the use of concentrate applications of the compound. For details of this work, see the reports of G. S. Sibbett, Lonnie Hendricks, Wally Schreader, and L. C. Brown.

Dilute vs Concentrate Application of Ethrel<sup>(R)</sup> - G. S. Sibbett, G. C. Martin  
D. E. Ramos

Concentrated rates of Ethrel<sup>(R)</sup>, 3, 4 or 5 pints in 50 gallons of water per acre, applied as packing tissue turned brown, had more influence on advancing hullability, leaffall, and percent removal than similar amounts in 100 or 300 gallons of water per acre. No significant difference in kernel quality, insect, or networth per inshell pound occurred due to treatment although the "grower" check, harvested 2 weeks later, was of substantially less quality and contained more insect injury than treated samples.

Ethrel<sup>(R)</sup> - L. C. Hendricks

Ethrel<sup>(R)</sup> was used in two orchards in 1972. In a Eureka orchard, Ethrel<sup>(R)</sup> was applied at three pints, four pints, and five pints in 50 gallons per acre and five pints in 400 gallons per acre. This was applied on September 6, 1972 and the plots were harvested between September 14 and September 19.

A 1-shake harvest was not possible with any of the treatments on these old Eureka. The check had 75% harvested in the first shake and the best treatment was three pints Ethrel<sup>(R)</sup> in 50 gallons of water, which resulted in 83% removal in one shake. The following grades were obtained with these ethephon treatments:

|              | Grade   |          |            | <u>Price/lb</u> |
|--------------|---------|----------|------------|-----------------|
|              | % light | % edible | % offgrade |                 |
| Check        | 28      | 39.7     | 4.7        | 24.1            |
| 5 pt/400 gal | 27.7    | 40.7     | 5.0        | 24.3            |
| 3 pt/50 gal  | 34.3    | 44.3     | 2.3        | 27.1            |
| 4 pt/50 gal  | 39.3    | 44.3     | 2.0        | 27.84           |
| 5 pt/50 gal  | 38.0    | 42.0     | 3.0        | 26.5            |