

## Crop Estimation and Thinning Table

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7/16/2003

The following table is a “no math” cheat sheet you can bring with you into the field to help you in crop estimation and thinning. To use the chart, all you need to know is how much fruit you remove from 1/100<sup>th</sup> of an acre and a close approximation of your % final berry weight (or how many days you are from bloom). The table does the rest of the math for you. Happy estimating!

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| Pounds of Fruit<br>Removed in 1/100th of<br>an Acre | Time of Season |       |       |       |       |          |      |      |      |      |         |      |      |      |      |
|---|----------------|-------|-------|-------|-------|----------|------|------|------|------|---------|------|------|------|------|
|   | 20DAB          | 25DAB | 30DAB | 40DAB | 50DAB | Veraison |      |      |      |      | Harvest |      |      |      |      |
|   | 20             | 25    | 30    | 35    | 40    | 45       | 50   | 55   | 60   | 65   | 70      | 75   | 80   | 90   | 100  |
| 10  | 2.5            | 2.0   | 1.7   | 1.4   | 1.3   | 1.1      | 1.0  | 0.9  | 0.8  | 0.8  | 0.7     | 0.7  | 0.6  | 0.6  | 0.5  |
| 20  | 5.0            | 4.0   | 3.3   | 2.9   | 2.5   | 2.2      | 2.0  | 1.8  | 1.7  | 1.5  | 1.4     | 1.3  | 1.3  | 1.1  | 1.0  |
| 30  | 7.5            | 6.0   | 5.0   | 4.3   | 3.8   | 3.3      | 3.0  | 2.7  | 2.5  | 2.3  | 2.1     | 2.0  | 1.9  | 1.7  | 1.5  |
| 40  | 10.0           | 8.0   | 6.7   | 5.7   | 5.0   | 4.4      | 4.0  | 3.6  | 3.3  | 3.1  | 2.9     | 2.7  | 2.5  | 2.2  | 2.0  |
| 50  | 12.5           | 10.0  | 8.3   | 7.1   | 6.3   | 5.6      | 5.0  | 4.5  | 4.2  | 3.8  | 3.6     | 3.3  | 3.1  | 2.8  | 2.5  |
| 60  | 15.0           | 12.0  | 10.0  | 8.6   | 7.5   | 6.7      | 6.0  | 5.5  | 5.0  | 4.6  | 4.3     | 4.0  | 3.8  | 3.3  | 3.0  |
| 70  | 17.5           | 14.0  | 11.7  | 10.0  | 8.8   | 7.8      | 7.0  | 6.4  | 5.8  | 5.4  | 5.0     | 4.7  | 4.4  | 3.9  | 3.5  |
| 80  | 20.0           | 16.0  | 13.3  | 11.4  | 10.0  | 8.9      | 8.0  | 7.3  | 6.7  | 6.2  | 5.7     | 5.3  | 5.0  | 4.4  | 4.0  |
| 90  | 22.5           | 18.0  | 15.0  | 12.9  | 11.3  | 10.0     | 9.0  | 8.2  | 7.5  | 6.9  | 6.4     | 6.0  | 5.6  | 5.0  | 4.5  |
| 100   | 25.0           | 20.0  | 16.7  | 14.3  | 12.5  | 11.1     | 10.0 | 9.1  | 8.3  | 7.7  | 7.1     | 6.7  | 6.3  | 5.6  | 5.0  |
| 110   | 27.5           | 22.0  | 18.3  | 15.7  | 13.8  | 12.2     | 11.0 | 10.0 | 9.2  | 8.5  | 7.9     | 7.3  | 6.9  | 6.1  | 5.5  |
| 120   | 30.0           | 24.0  | 20.0  | 17.1  | 15.0  | 13.3     | 12.0 | 10.9 | 10.0 | 9.2  | 8.6     | 8.0  | 7.5  | 6.7  | 6.0  |
| 130   | 32.5           | 26.0  | 21.7  | 18.6  | 16.3  | 14.4     | 13.0 | 11.8 | 10.8 | 10.0 | 9.3     | 8.7  | 8.1  | 7.2  | 6.5  |
| 140   | 35.0           | 28.0  | 23.3  | 20.0  | 17.5  | 15.6     | 14.0 | 12.7 | 11.7 | 10.8 | 10.0    | 9.3  | 8.8  | 7.8  | 7.0  |
| 150   | 37.5           | 30.0  | 25.0  | 21.4  | 18.8  | 16.7     | 15.0 | 13.6 | 12.5 | 11.5 | 10.7    | 10.0 | 9.4  | 8.3  | 7.5  |
| 160   | 40.0           | 32.0  | 26.7  | 22.9  | 20.0  | 17.8     | 16.0 | 14.5 | 13.3 | 12.3 | 11.4    | 10.7 | 10.0 | 8.9  | 8.0  |
| 170   | 42.5           | 34.0  | 28.3  | 24.3  | 21.3  | 18.9     | 17.0 | 15.5 | 14.2 | 13.1 | 12.1    | 11.3 | 10.6 | 9.4  | 8.5  |
| 180   | 45.0           | 36.0  | 30.0  | 25.7  | 22.5  | 20.0     | 18.0 | 16.4 | 15.0 | 13.8 | 12.9    | 12.0 | 11.3 | 10.0 | 9.0  |
| 190   | 47.5           | 38.0  | 31.7  | 27.1  | 23.8  | 21.1     | 19.0 | 17.3 | 15.8 | 14.6 | 13.6    | 12.7 | 11.9 | 10.6 | 9.5  |
| 200   | 50.0           | 40.0  | 33.3  | 28.6  | 25.0  | 22.2     | 20.0 | 18.2 | 16.7 | 15.4 | 14.3    | 13.3 | 12.5 | 11.1 | 10.0 |

Row Spacing determines length of 1/100th of an acre  
 10.0 feet row spacing = 43.5 feet = 1/100th of an acre  
 9.5 feet = 45.9 feet = 1/100th of an acre  
 9.0 feet = 48.4 feet = 1/100th of an acre  
 8.5 feet = 51.2 feet = 1/100th of an acre  
 8.0 feet = 54.45 feet = 1/100th of an acre  
 7.5 feet = 58.1 feet = 1/100th of an acre

Calculation

43, 560 square feet per acre  
 Divide by row spacing and then  
 divide by 100 to get 1/100th of an acre

Example:

A grower has 9 foot row spacing and clean picks 48.4 feet at 25 days after bloom. The fruit weighs 80 pounds and the grower estimates that the berries are between 35% and 40% of final berry weight. According to the table, the crop estimate is between 10.0 and 11.4 tons per acre.

Disclaimer:

This table gives the relationship between time of season and % final berry weight on an average year. Year to year variability in weather related berry growth adds error to this table. Information on current year berry growth can be obtained from the Fredonia Vineyard Lab (or) it is strongly suggested that individual growers start collecting berry weight information from their own individual vineyard blocks.