

# Dr. Terry Bates: Crop Estimation and Thinning Table: 7/16/2003

Time of Season						
20DAB	25DAB	30DAB	40DAB	50DAB	Veraison	Harvest
% of Final Berry Weight						

Pounds of Fruit  
Removed in 1/100th of  
an Acre

	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.