

## United States Department of Agriculture National Agricultural Statistics Service

# 2013 California Raisin Grape Mechanical Harvest Report



Cooperating with the California Department of Food and Agriculture

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## **RESULTS**

Total acreage harvested by mechanical means was 31,483, just over 16 percent of the State's total raisin-type grape acreage. The Overhead Trellis Management System was used on 14,604 bearing acres in 2013, accounting for 8 percent of the total raisin-type grape acreage. Fresno and Madera County growers have 41 and 36 percent of the Overhead Trellis acreage in the State. Kern County growers have 21 percent of the Overhead Trellis acreage. Other mechanical harvest systems include Continuous Tray at 8.5 percent of the acreage and South Side with less than ½ of 1 percent of the raisin-type grape acreage.

Fresno County has the most acreage with mechanical harvesting, at 19,121, 14 percent of the Fresno County raisin-type grape acreage. Kern and Madera County growers harvest 25 and 27 percent of their raisin-type grape acreage by mechanical means, respectively.

By variety, Thompson Seedless grape acreage with mechanical harvesting is 21,344 or 12 percent of the total raisin-type grape acreage. Sixty-two percent of the Fiesta grape acreage is harvested mechanically and 46 percent of the Selma Pete acreage is harvested mechanically.

Most California raisins are produced by sun drying after placing the bunches on paper trays on terraces between vine rows. The Overhead Trellis System has led to increased production of dried-on-the-vine raisins, increased machine harvesting, and decreased hand labor use.

## **PROCEDURES**

The Pacific Regional Office-California of USDA's National Agricultural Statistics Service, cooperation with the California Department of Food and Agriculture, conducts an annual grape acreage The 2013 Grape Acreage Report, published in April, summarized the latest survey results. At the request of the raisin industry, an additional question was added to the grape acreage survey form the past seven years to gather information on raisin-type acreage that is harvested mechanically. In addition to the mechanical harvest data, producers were asked to update acreage by variety and year planted. Growers were contacted by telephone. This report summarizes data for raisin-type grapes grown using mechanical harvest.

#### **ACKNOWLEDGMENTS**

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## Raisin-Type Grapes: Acreage by County, California, 2013

		Mechanical Harvest		Type of Mechanical Harvest			
County	Total Acreage	Acres	Percent of Total Acreage	Overhead Trellis Acres	Continuous Tray Acres	South Side Trellis Acres	
Fresno	132,939	19,121	14	5,950	13,012	159	
Kern	12,657	3,169	25	2,995	1/	1/	
Madera	32,703	8,669	27	5,236	3,173	260	
Tulare	11,547	1/	1/	390	1/	1/	
Other Counties	2,508	524	21	33	237	2/	
Total	192,354	31,483	16	14,604	16,422	457	

<sup>1/</sup> Included in Other Counties.

## Raisin-Type Grapes: Acreage by Variety, California, 2013

	Total Acreage	Mechanical Harvest		Type of Mechanical Harvest		
Variety		Acres	Percent of Total Acreage	Overhead Trellis Acres	Continuous Tray Acres	South Side Trellis Acres
Black Corinth	1,645	1/	1/	1/	1/	1/
Fiesta	12,461	7,702	62	6,667	1/	1/
Selma Pete	3,622	1,662	46	1,111	1/	1/
Thompson Seedless	173,017	21,344	12	6,384	14,621	339
Other Raisin-Type 2/	1,609	775	48	442	1,801	1/
Total Raisin-Type	192,354	31,483	16	14,604	16,422	457

<sup>1/</sup> Less than 1,000 acres and included in Other Raisin-Type varieties.

### **MECHANICAL HARVEST METHODS**

OVERHEAD TRELLIS – Grapes are dried directly on the vine, forming a canopy over the rows. It allows the mechanical grape harvester to get underneath and gather the dried fruit.

SOUTH SIDE TRELLIS – In an east-west row orientation vineyard, an angled cross-arm is added to each trellis stake to support two wires on which fruiting canes are tied. The southern exposure of the fruit facilitates drying. The raisins may be harvested mechanically with a south side harvester.

CONTINUOUS TRAY – Grapes are mechanically harvested and laid out on a continuous (rather than individual) thin sheet of paper where they dry in the sun for two or three weeks.

<sup>2/</sup> Included in Total.

<sup>2/</sup> Includes Dovine, Negrita Black, and Sultana varieties.