

Attachment 9.4 – Supporting Documents

Economic Analysis – Flood Damage Reduction Costs and Benefits

Project D – Root Creek Water District, In-Lieu Groundwater Recharge

Madera Region – IRWM Implementation Grant Application

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Flood Damage Calculations & Disaster Report Information

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**Attachment 9.4, Flood Damage Calculations & Disaster Report
Information**

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**Root Creek Water District
In-Lieu Groundwater Recharge Project
Flood Control Benefits**

Damage to Crops from Flooding in 2006

Crop	5-Yr Avg Yield (tons/acre)	5-Yr Avg Price (\$/ton)	Est. Yield (tons/acre)	Damage/Acre
Almonds	0.91	\$2,637	0.56	\$923
Alfalfa hay	7.33	\$107	5.83	\$161
Peaches	14.07	\$292	10.55	\$1,028
Plums	8.6	\$555	4.3	\$2,387
Prunes	2.63	\$894	1.71	\$822
Apples	9.79	\$297	0.97	\$2,620
Cherries	2.86	\$2,090	1.66	\$2,508
Barley	Confidential	Confidential	Confidential	\$63

Source: Madera County Agricultural Commissioner Disaster Report, April 24, 2006

Notes: The crops having the lowest damage cost per acre were conservatively used in the analysis. This includes the average of Alfalfa hay (\$161/acre) and Barley (\$63/acre) for a value of \$110/acre.

Avoided Flood Damage **\$110**/acre

Avg. Floodwater Diversion **2,100** Acre-feet

Assumed Inundation Depth **2** ft

Area Inundated **1,050** acres

Annual Damage **\$115,500**



Madera County Department of Agriculture Weights and Measures

Robert J. Rolan, Agricultural Commissioner
Sealer of Weights and Measures

Jay Scslowe, Assistant Agricultural
Commissioner/Sealer

FAX

Voice phone: (559) 675-7876

Fax phone: (559) 674-4071

Date: 11/19/10

Number of pages: 4 W/ cover page

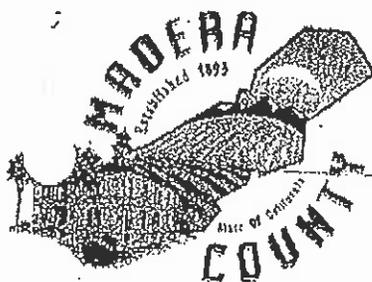
To: Madera Irrigation District - Dick
(559) 673-0564

From: Cha Vang

Message: Here is the 2006 disaster report for Madera County. I have included the grape numbers per your request. The grapes are broken up as noted and are the 2008 numbers, which are the five year averages for the 2004 to 2008 years. Please call me if you have anymore questions.

Thank you,

Cha Vang
Senior Agricultural & Standards Inspector



Madera County Department of Agriculture Weights and Measures

Robert J. Rolan, Agricultural Commissioner
Sealer of Weights and Measures

Jay Seslowe, Assistant Agricultural
Commissioner/Sealer

April 24, 2006

Henry R. Renteria, Director
Governor's Office of Emergency Services
Individual Assistance Section
3650 Schiever Avenue,
Mather CA 95655-4203.

Re: Request for USDA Secretarial Disaster Declaration for Damage to 2006
Cherry Crop in Madera County, California

Dear Director Renteria,

A survey of Madera County cherry growers has confirmed production losses in excess of 41% in this year's cherry crop. The damage, estimated at \$564,000, is attributed to freezing temperatures that occurred on February 16, 2006. All of the county's 225 acres of bearing cherries suffered some degree of loss.

In addition, flooding on April 5, 2006, and heavy periods of rain throughout the months of March and April, 2006 have resulted in production losses to almonds, alfalfa hay, peaches, plums, prunes, apples, and barley. To date, the total estimated crop loss in Madera County is \$23,050,000.

I respectfully request that Madera County be considered for a USDA Secretarial Disaster Declaration based upon the attached *County Agricultural Commissioner Disaster Report*.

Thank you for your consideration of this request.

Sincerely,

Handwritten signature of Robert J. Rolan in black ink.

Robert J. Rolan
Madera County Agricultural Commissioner/
Sealer of Weights and Measures

c: Madera County Board of Supervisors
Joe Grillo, Farm Services Agency, Madera
Julla Berry, Madera County Farm Bureau

