

## Pierce's Disease Control Program Research Summary

Principal Investigators	Title	Funding Source	Total Funding
Carole Meredith	Genetic transformation: A means to add disease resistance to existing grape varieties	AVF	17,000
Rick Redak	Developing an integrated pest management solution for pierce's disease spread by the glassy-winged sharpshooters in Temecula	AVF	268,172
Bruce Kirkpatrick, Alexander Purcell, Peter Anderson (UF), M. Andrew Walker, Edward Weber	Biological, cultural, and chemical management of Pierce's disease	AVF	180,000
Russ Mizell (UF)	Key to management of glassy-winged sharpshooter: manipulation of host plants to explore nutrient limitations and natural enemies	AVF	60,000
Rick Redak	Controlling the spread of <i>Xylella fastidiosa</i> the causal agent of oleander leaf scorch by disrupting vector acquisition and transmission	Cal Trans	47,428
Carole Meredith	Genetic transformation: A means to add disease resistance to existing grape varieties	CCGPRVE	17,000
Donald Cooksey	Biological control of Pierce's disease with non-pathogenic strains of <i>Xylella fastidiosa</i>	CDFA	154,629
Donald Cooksey, Heather Costa	Epidemiology of Pierce's disease in Southern California: Identifying inoculum sources and transmission pathways	CDFA	255,000
Mark Hoddle, Sergui Triapitsyn, Robert Luck, Rick Redak	Biological control of GWSS in California: one cornerstone for the foundation of an IPM program	CDFA	375,000
Rick Redak	Impact of layering control tactics on the spread of Pierce's disease by the GWSS	CDFA	360,000
Robert Luck, Mark Hoddle, Rick Redak	Seasonal changes in the GWSS age structure, abundance, host plant use, and dispersal	CDFA	225,000
Jeffrey Granett, M. Andrew Walker, Amir Omer	Prevention of Pierce's disease transmission and infection: role of induced plant resistance	CDFA	20,000
Bruce Kirkpatrick, Alexander Purcell, Peter Anderson (UF), M. Andrew Walker, Edward Weber	Biological, cultural, and chemical management of Pierce's disease	CDFA	675,000
John Peloquin, Thomas Miller, Carol Lauzon (CSU Hayward)	Insect-symbiotic bacteria inhibitory to <i>Xylella fastidiosa</i> in sharpshooters	CDFA	36,556
Jerome Seibert	Economic impact data gathering for Pierce's disease	CDFA	10,000
Beth Grafton-Cardwell	Evaluation of efficacy of Sevin (carbaryl) treatments in the Porterville glassy-winged sharpshooter infestation	CDFA	20,000
Ed Civerolo et al.	Genomic work on strains of <i>Xylella fastidiosa</i>	CDFA	62,500
Ron Briansky (UF)	Transmission of the citrus variegated chlorosis bacterium, <i>Xylella fastidiosa</i> , with the glassy-winged sharpshooter, <i>Homalodisca coagulata</i>	CRB	8,500
Phil Phillips	Surveys for more effective glassy-winged sharpshooter parasitoids	CRB	10,437

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Beth Grafton-Cardwell	Efficacy of insecticides used for glassy-winged sharpshooter control in citrus	CRB	19,965
Donald Luvisi	GWSS/PD Research	Kern/ Tulare	48,600
Nick Toscano	Monitoring of the GWSS	Riv. Co.	51,349
Alexander Purcell	Pruning for control of Pierce's disease	UCIPM	21,268
Rick Redak	Basic information on the spread of PD by the GWSS, and investigate plant protection tactics.	USDA	50,000
Bruce Kirkpatrick, Alexander Purcell, Peter Anderson (UF), M. Andrew Walker, Edward Weber	Biological, cultural, and chemical management of Pierce's disease	USDA	50,000
Tad Poprawski et al	Test novel biorational insecticides on glassy-winged sharpshooter	USDA	150,000
Gary Puterka et al.	Repellents and biorationals for control of GWSS	USDA	150,000
T. J. Henneberry et al.	Potential of biorationals for glassy-winged sharpshooter control	USDA	164,000
Nick Toscano et al.	Area wide abatement of the glassy-winged sharpshooter (GWSS) , a Pierce's disease vector	USDA	299,143
Ed Civerolo et al.	Epidemiology of <i>Xylella fastidiosa</i> diseases in California: relationship between Pierce's disease and almond scorch, and the relationship of stone fruits and citrus to the epidemiology of these diseases	USDA	150,000
Walker	Classical biological control of <i>Homalodisca coagulata</i>	USDA	150,000
Carole Meredith	A genetic map of <i>Vitis vinifera</i> : A foundation for improving the management of disease and flavor	VC	37,000
Bruce Kirkpatrick, Alexander Purcell, Peter Anderson (UF), M. Andrew Walker, Edward Weber	Biological, cultural, and chemical management of Pierce's disease	VC	50,000
		<b>TOTAL</b>	<b>\$ 4,193,547</b>
<b>RESOURCES PENDING ALLOCATION</b>			
	Not Designated	USDA	4,036,857
<b>TOTAL COMMITTED RESEARCH FUNDING</b>			<b>\$ 8,230,404</b>
<b>FUNDING SOURCE KEY</b>			
AVF: American Vineyard Foundation		Kern/Tulare: Kern/ Tulare GWSS Task Force	
CalTrans: California Department of Transportation		Riv. Co: County of Riverside	
CCGPRVE: California Competitive Grants Program for Research in Vit./Enology		UC-IPM: Univ. of California Statewide IPM Project	
CDFA: California Department of Food and Agriculture		USDA: United States Department of Agriculture	
CRB: Citrus Research Board		VC: Viticulture Consortium	