Supplemental insect survey of Texas vineyards

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Investigation of insect vectors of Pierce's disease in the "transition zone" of the Texas Hill Country is being investigated through intensive insect sampling of eight vineyards by Dr. Forrest Mitchell in 2003. To gain a greater understanding of the distribution and seasonality of leafhopper species, sixteen supplemental trapping sites were established in early June, 2003. Sticky traps and sweep net sampling of vines, vineyard row centers and adjacent vegetation sites was conducted on a two to three week interval and continues through the dormant season. These vineyards bracketed the primary hill country sites to the north, south, east and west and included vineyards with Pierce's disease, those without, and those growing only tolerant cultivars.

2003 Supplemental Insect Survey Sites

The insect survey comprised single vineyards in 16 counties. Counties included in the survey are listed in Table 1.

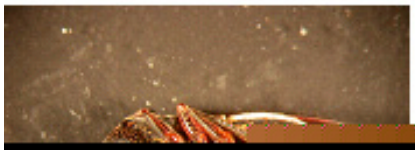
Table 1. Counties Included in Survey			
Austin	Bexar	Blanco	Brazos
Collin	Comal	Fannin	Hayes
Kendall	Mason	Menard	McCulloch
Montague	Parker	San Saba	Wise

Forty two leafhopper species were collected over the summer and fall and specimens were submitted for identification to Dr. Roman Rakitov, specialist in leafhopper taxonomy at the Center for Biodiversity, Illinois Natural History Survey at Champaign, Illinois. Of these specimens, seven were identified as xylem feeders. These species were as follows:

Table 2. Sharpshooters Captured in Survey		
Family	**Subfamily**	**Species**
Cicadellidae	Cicadellinae	Cuerna costalis (F.)
Cicadellidae	Cicadellinae	Draeculacephala sp.

Cicadellidae	Cicadellinae	Graphocephala versuta (Say)
Cicadellidae	Cicadellinae	Homalodisca coagulata (Say)
Cicadellidae	Cicadellinae	Oncometopia orbona (F.)
Cicadellidae	Cicadellinae	Paraulacizes irrorata (F.)
Cercopidae		Lepyronia quadrangularis (Say)

Cuerna costalis



Homalodisca coagulata

Oncometopia orbona

Paraulacizes irrorata

Lepyronia quadrangularis
Spittle Bug