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**Project No. 01 -RP-02 - Honey Bee Management, Genetics, and Breeding**

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**Objective:** Conduct DNA surveys of feral honey bee populations to determine the extent of the spread of Africanized honey bees in California.

**Summary**

We conducted a survey of the San Joaquin Valley south of Madera to Bakersfield to determine the current range of Africanized honey bees. Foraging honey bees were randomly collected on flowers on a north-south transect down the center of the valley then back north along the eastern foothills. Bees were analyzed for diagnostic DNA markers to determine if they were Africanized or European. We found that the detected range had spread about 10 miles north of Lindsay California since our survey of 2001. The figure below shows the current estimated range based on our survey data and finds reported by the California Department of Food and Agriculture. As in past years, our sampling detected bees further north than was currently recognized by CDFA.

