

More good news for Integrated Pest Management!

Owners of a 3,600 acre pecan ranch in Las Cruces, NM had spent \$700,000 on chemicals to try to rid their trees of yellow and black aphids. all to no avail. The insects thumbed their noses at all nine chemical poisons and continued to chew the trees to death. In desperation, the owners quit spraying and instead dropped 72 million ladybugs and green lacewings from an airplane onto their trees. They described the results after two years as "very very very effective." Not only did the reintroduced predators control the aphids (who could develop resistance to chemical sprays, but not to

being eaten), but after two years of treating the orchard with purchased ladybugs, the ladybug species *natural* to the Las Cruces area returned to the orchards. They had disappeared previously as a result of the chemical spraying.

The story was written for the *Oregonian* (2/15/90) by J.E. Ferrell.

An article by Gary E. Davis, research marine biologist at Channel Islands NP in *Natural Areas Journal*, (9:2, 80-89), describes the design of a long-term ecological monitoring program for Channel Islands NP, California. The design was described by Davis and Bill Halvorson in the Spring '89 issue of *Park Science*. (9:3,16-17).