## Cooperative Extension

## Community-Wide Lygus Action Plan

The University of Arizona - College of Agriculture

The seed alfalfa dry-down period has already begun, and the suitability of this crop as a host for Lygus bugs is in decline. A major objective of this project is to help identify periods and locations of Lygus movement.

## Field Specific Trends

Individual field trends continue to be quite dynamic (see Fig. 1, below). The total Lygus per 100 sweeps are depicted below for 7 representative field sites (field codes below each graph) for each major host crop at this time (seed alfalfa, alfalfa hay, and weeds). Most seed alfalfa fields are trending downward in Lygus numbers as the crop continues to dry down.

We have added over 120 cotton field sites to our weekly sampling, and Lygus numbers are detectable in some fields but at extremely low levels. Many fields of alfalfa hay are increasing in Lygus numbers. Adults especially have increased there in recent weeks. This may reflect the relative attractiveness of alfalfa to Lygus over cotton. This underscores the importance preserving a strip-, block-, or alternate field cutting strategy.

As an aside, it is interesting to note that at the same time that Lesquerella ( 20 A at MAC) dried down and ceased to be attractive to Lygus, adult numbers in adjacent forage hay increased dramatically. Lygus adults will move to locally-preferred hosts.


Figure 1: Individual field trends for Total Lygus per 100 sweeps are depicted above in a series of graphs for 7 representative field sites for each of the 3 major hosts, seed alfalfa, alfalfa hay, and weeds. Field site identification numbers are located below each graph.




Figure 2: Number of Lygus per 100 'cotton-style’ sweeps in various crops in the western Pinal County area. Each chart represents an average of multiple sites in multiple fields each week. Due to differences in the number of sites each week, these numbers are for general information only. No sample was taken from seed-alfalfa on 28 March. Each site is resampled each week unless it has been recently sprayed, cut or otherwise removed, or watered. Each chart shows the results for the entitled life stage. Small Nymphs are instars 1-3; Large Nymphs are instars 4-5; All Nymphs is the sum of these 2 nymphal categories; Total Lygus is the sum of all stages of Lygus including adults.

## Community Trends

Our weekly samples are summarized in chart form below (Fig. 2). Some trends are evident:

- Lygus, including reproduction (note nymphs), are in decline in seed alfalfa, though there are exceptions (see Fig. 1),
- Weeds are of little importance at this time,
- Cotton numbers are exceedingly low, but dominated by adult numbers,
- Lygus in alfalfa hay are on the rise,
- Adult numbers are quite volatile.



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[^0]:    Peter Ellsworth, IPM Specialist ${ }^{1}$
    Steve Husman, Area Extension Agent ${ }^{2}$
    Dave Langston, MAC Farm Superintendent ${ }^{1}$
    
    ${ }^{1}$ Department of Entomology, Maricopa Agricultural Center, Maricopa, AZ ${ }^{2}$ Pinal County Cooperative Extension Office, Casa Grande, AZ

