



root weevil was first identified in an orchard on Hobbs
Expressive North of McAllen in October 2003 (Texas Center
Newsletter, Dec. 2003). A second *Diaprepes* find was
in a nearby orchard on Northgate Road. Both orchards
and 18 residential properties within a 300 yard radius
are under a strict quarantine enforced by the Texas Dept.
of Agriculture. Both orchards are being sprayed in the
spring and late summer with a tank mix of captan +

citrus spray oil. The foliar spray kills adult weevils and
emerging larvae (neonates). Capture ELU is also being
applied twice per season beneath the tree canopy to kill
neonates as they emerge from the soil. Citrus, palms, shrubs
and ornamentals in the quarantined residential sites are
also receiving two applications per season of
Sevin 8US or Carbaryl 4L and two ground barrier appli-
cations of Talstar granules or Talstar 10WP drench
sprays. All residential treatments are by licensed pest

management.

Twenty Tedders Traps placed in each orchard and
3-4 per residential site are being monitored weekly for
emerging *Diaprepes* neonates.

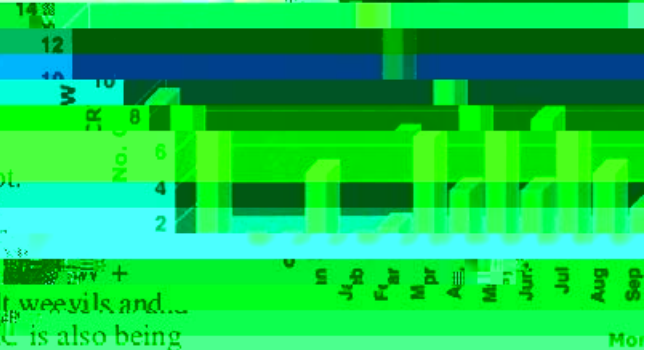
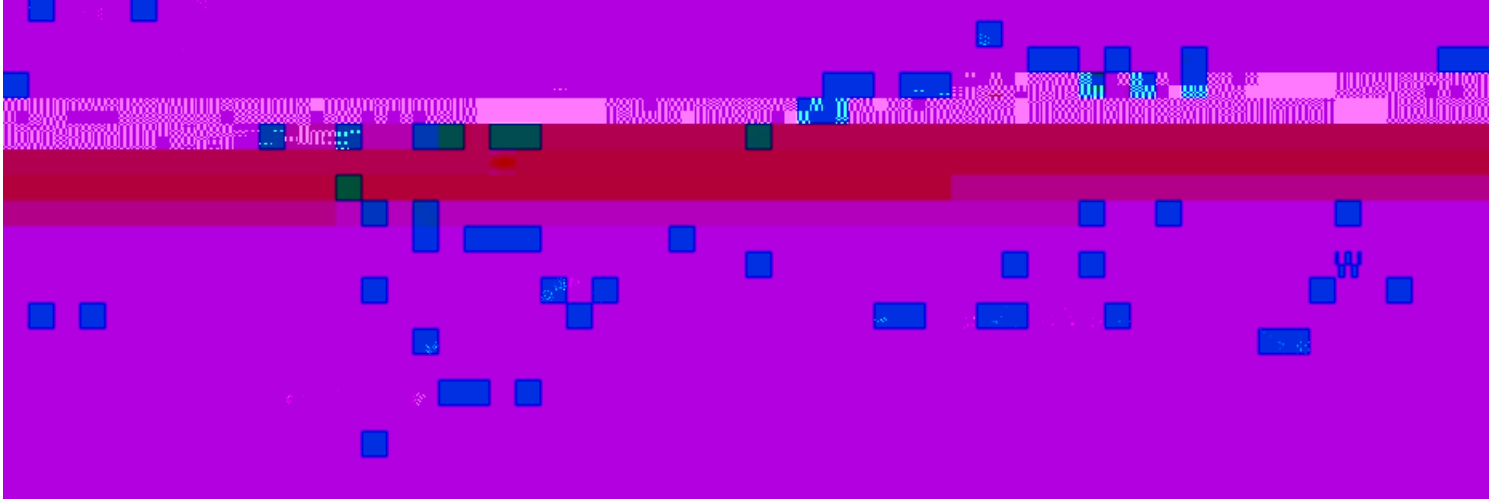


Figure 1

Diaprepes Root Weevil
2002-2003



The most critical need for water will occur during the next two months as fruit is being determined. Normal conditions that have prevailed through both February and March have both delayed the onset of fruit set. For example, Valencia orange fruit set normally peaks in late February, but is delayed until March, with grapefruit



**EMBEDDED STUDIES IN CITRUS FLOWERS/FRUIT - CITRUS FERTILIZATION STUDIES
MAY BECOME PROBLEMATIC**

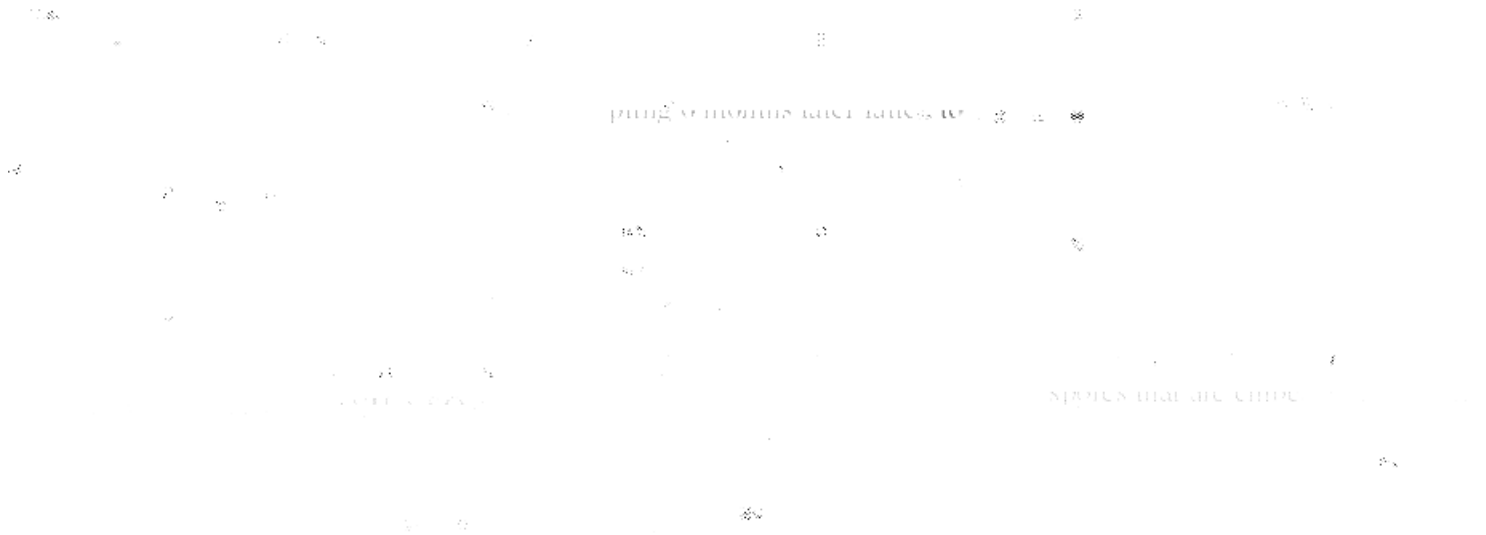
...y for maximum pro-
...age to arise regarding
...ularly since fertilizers are
...route to water pollution. A
...ed for the last two years and is

...infected by a common reformed we near it of
...nowadays from news on war. Spores of numerous fungi
...that will result in a 100% mortality rate in the
...flowers transform to fruit. The pictures below show the

Fertilization of citrus is necessary
...duction but many questions
...what is the best program, partic
...expensive and can com
...study has been conduct

...Soil sampling prior to fertilizer application indicated

...studies that scale on flowers. This was done by cu
...the number of flowers on a study tree in the



...season when fruit require degreening. No. or only lim-
...ared to ...red, clear and brown trees. proper culture concentration
...being ... and ...
...fertilization ...
...around ...
...of the ...

...tinent (brix) in December & January 2002-03 comp
...the unfertilized check. The Actagro program
...led by Wilbur-Ellis, wh
...and be used b
...

...of Actagro is continuing to
...of Actagro increases with the fertilizer applica-
...tion rate, greater than the fruit even indicating the effect
...of the fertilizer program is building each year. Exi-



...IT HAS BEEN THIRDED ON ...

...This ...

ry month, with the highest
December (Figure 2).
are all being made with traps
red wood... and res-

Recent visitors to the Center have been Dr Runzhi
Zhang (a weevil expert from Beijing, China), Dr A.
Krishnamoorthy (from Bangalore, India who is a visiting
scientist with Dr Liu at FAES), Dr Brad Wise and Mi-

weevils were trapped eve
number (17) recorded
Delimiting surveys
placed and monito

of weevils have been trapped in any of
these sites. However, high numbers of two...
long-standing traditional honey weevil species be-
ing trapped in some locations—the golden-headed...

ange from page 1
weevil or little leaf notcher, *Compsus auricephalus* (Say)
and the Brown or Mexican leaf-notching weevil,

Epicaxerus minutus (Dallas) (South American species). More ino
d traps... Another gene... cold acclimation has also been identified... limiting su
rveys will be forth-coming in a future... these genes into
Center Newsletter article...

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