

Grape Phylloxera 2009

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Mature GP galls

Mature gall + eggs + crawlers; and new, pin-sized vs. mature galls

2nd generation GP crawlers were seen in galls and new, pin-sized galls were forming on expanding terminal leaves on 27 & 28 May in Rocheport and St. James MO and in Whitewater, KS (554-800 DD, base 43F since bud break or 1st leaf). Growers applied Danitol by 29 May.

3rd generation crawlers will begin emerging from mature galls after 1,200 DD which was 12 June in Altus, AR.

To make your spray decision against GP crawlers: You should cut open mature (closed) leaf galls on 2nd to 8th expanded leaves. Use a hand lens (magnifying glass in eye glasses repair kit) to see inside galls:

- Too early to spray if there are only white eggs or yellow eggs
- **Spray as soon as possible if there are walking yellow crawlers inside the galls or if you see new pin-sized galls forming on expanding terminal leaves = crawlers still exposed and can be killed by an insecticide application.**

2nd generation GP crawlers emerged as early as 15th May in Arkansas and as late as 25th May in Boone Co. Missouri. 3rd generation began hatching in gall on 9 June in Altus, Arkansas (see graphs or table):

- Crown Valley/ Cape Girardeau Co.: <http://comp.uark.edu/~dtjohnso/MO%20Girardeau%20GP%20DD%2009.JPG>
- Purdy/Barton Co. : <http://comp.uark.edu/~dtjohnso/MO%20Barton%20GP%20DD%2009.JPG>
- Stone Hill/Crawford Co.: <http://comp.uark.edu/~dtjohnso/MO%20Crawford%20GP%20DD%2009.JPG>
- Rocheport/ Boone Co.: <http://comp.uark.edu/~dtjohnso/MO%20Boone%20GP%20DD%2009.JPG>
- Waverly/Lafayette Co.: <http://comp.uark.edu/~dtjohnso/MO%20Lafayette%20GP%20DD%2009.JPG>
- Hindsville, AR: <http://comp.uark.edu/~dtjohnso/AR%20GP%20DD%2009.jpg>

County	Predicted <u>2nd grape</u> berry moth hatch period	Predicted period for <u>3rd phylloxera</u> crawlers
Barton	24 June to 9 July	14 June on
Boone	26 June to 9 July	27 June on
Crawford	26 June to 11 July	20 June on
Cape Girardeau	20 June to 7 July	11 June on
Lafayette	24 June to 12 July	24 June on
Washington Co., AR	14 June to 7 July	13 June on