



# Arkansas Fruit and Nut News Volume 6, Issue 3, 1 June 2016

### Two New Extension Specialists-Horticulture

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### Upcoming Webinar or Events:

- **June 3 at 1:00 pm CDT: Webinar on Spotted Wing Drosophila (SWD, *Drosophila suzukii*)** by Dr. Hannah Burrack, Associate Professor at North Carolina State University. She will be discussing one of the newest pests, SWD (**Fig. 1**), that infest ripe berry fruit in commercial plantings and home gardens. Learn practical tips of detection and management of SWD. The webinar will be recorded, so you can watch it any time. To view the live webinar, just log in as a guest 15 minutes before the event begins: <http://connect.extension.iastate.edu/fireant>



**Figure 1:** Spotted wing drosophila female on raspberry (Photo credit: Bugwood.org, image 5444193)

- **June 2-4: Oklahoma Pecan Growers Conference** in Tulsa Convention Center, 100 Civic Center, Tulsa, OK 74127 Online Convention Registration ([Link](#))
- **June 9: Organic Farming Field Day** at the Lincoln University Busby Research farm located at 5124 Goller Road, in Jefferson City, MO. This includes workshops in the morning and tour of projects at the Lincoln University Busby Organic research farm.
- **June 9: Blackberry Workshop** – from 2 to 7pm at the Fruit Research Station in Clarksville AR ([Program Link](#)). The registration is \$20.00 and includes dinner. Please register by June 1<sup>st</sup>: [Click here](#) for online registration/payment; [Click here](#) for a printable registration.

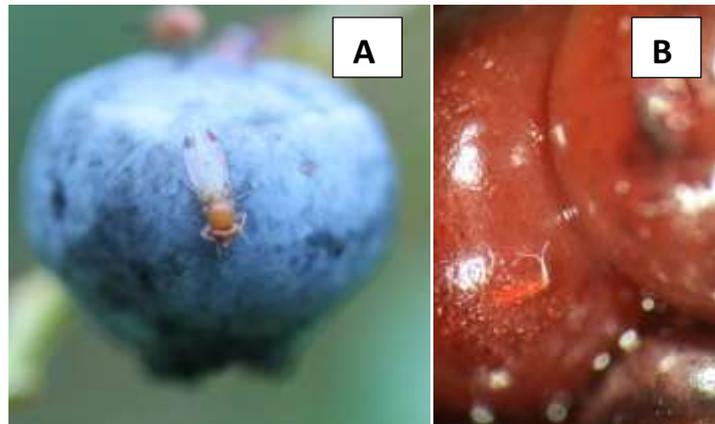
- **June 16: Southwest Research and Extension Center, Horticulture Crops Field Day** in Hope, Arkansas. Field Day Pre-registration form/Program Brochure ([PDF](#)) or Contact: Sherri Pote, [sblue@uaex.edu](mailto:sblue@uaex.edu), or call 870-777-9702.
- **June 16-17: TriState Arkansas - Louisiana – Mississippi Pecan Convention** will be held in Alexandria, LA. at the Best Western Of Alexandria Inn & Suites & Conference Center, 2720 N MacArthur Dr, Alexandria, LA 71303; **Registration** ([Link](#)), **Program** ([Link](#)) (Contact: Stephen Norman, (318) 729-3173 or by email: [pecans@rosaliepecans.com](mailto:pecans@rosaliepecans.com))
- **July 10-13: Texas Pecan Growers Association Conference & Trade Show** is in the Embassy Suites, San Marcos, TX (Contact TPGA at 979-846-3285 for more information)

## Fruit

Dr. Donn T. Johnson - Fruit Research/Extension

### Berries:

- **Spotted wing drosophila (SWD):** We captured SWD flies in baited traps the week of May 16 to 20 at the SW Research and Extension Center in Hope, Fruit Station in Clarksville and around strawberry and blackberry plantings in Fayetteville.
- **Scouting:** Arkansas growers should be checking weekly for SWD flies (**Fig. 2 A**) in SWD traps set at fruit height along perimeter of strawberries, blueberries, blackberries and raspberries. Once fruit ripen, randomly collect 30 ripe fruit and check for presence of SWD eggs (**Fig. 2 B**) or larvae (sugar water floating larvae from fruit ([YouTube](#))).



**Figure 2.** Spotted wing drosophila A) adult male on blueberry (Photo: T. Martinson, Cornell U.), and B) egg with stringy breathing tube on blackberry drupe (Photo: D. Johnson)

**Control:** Be ready to protect your ripening/ripened berry crops from SWD by applying weekly recommended insecticide sprays that begin as fruit start to ripen and continue weekly through harvest. See link for list of effective, conventional and OMRI approved organic insecticides has not changed since last year ([Link](#)).

### Grape

- **Grape berry moth (GBM):** This pest of grape has at least 3 generations per year and can enter and feed inside pea-sized or larger berries. You should be able to see signs of new larval entry into berries mostly along the vineyard perimeter adjacent to woods. The second and third generations will begin hatch by 11 June and 12 July according to the degree-day model ([Online model](#)).
- **Scouting:** Pheromone traps at the Fruit Station in Clarksville caught the first GBM moth on 8 April. Weekly, look for new larval entry (**Fig. 3**) into berries that exceed pea-size (1/4") by checking 10 clusters on each of 30 vines along wooded perimeter of vineyard.



**Figure 3.** New grape berry moth larval entry into grapes

Control: Apply an insecticide when you detect new larval entry into berries (see spray guide recommendations).

### Apple, Blueberry, Peach

- **Plum curculio (PC)**: We are getting reports of summer generation plum curculio adults being captured in black pyramid traps in Johnson and Washington Co. We have seen some plum curculio larvae in ripe blueberries (Washington Co.).

Scouting: Egg laying and hatch start 1200 degree days (DD) after biofix date (**Table 1**). This is the time to check fruit for PC feeding and egg laying damage - carefully dissect damage spot to see if egg is present: Inspect 30 fruit per tree or blueberry plant on at least 10 trees or plants along the perimeter adjacent to woodlot where PC overwinter.

Control: Apply spray when you see new summer damage with eggs present on fruit (see spray guide recommendations).

**Table 1.** By Arkansas Counties, 2016 biofix dates and predicted dates for start of summer generation egg laying/hatch of plum curculio at 1200 DD (base 50°F).

<b>County</b>	<b>Biofix date</b>	<b>Egg laying/hatch (200 DD after biofix)</b>	<b>Most overwintered adults in orchard (400 DD)</b>	<b>Summer adults laying eggs (1200 DD)</b>
Faulkner Co.	6 March	27 March	14 April	27 May
Hempstead Co.	7 March	1 April	19 April	2 June
Cross Co.	9 March	1 April	20 April	1 June
Johnson Co.	7 March	10 April	26 April	5 June
Washington Co.	8 March	17 April	9 May	17 June

Much of the information obtained for this newsletter was gathered by the authors at the University of Arkansas-Fayetteville. All chemical information is given with the understanding that no endorsement of named products is intended nor is criticism implied of similar products that are not mentioned. Before purchasing or using any pesticide, always read and carefully follow the directions on the container label. Compiled by: Donn T. Johnson, University of Arkansas, Department of Entomology, E-mail: [dtjohnso@uark.edu](mailto:dtjohnso@uark.edu)

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