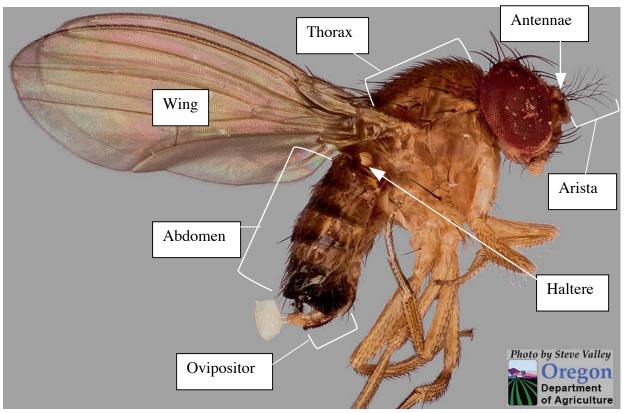
Identifying Drosophila suzukii

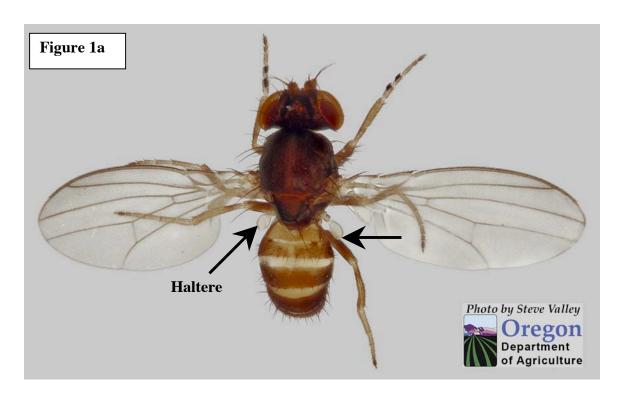
Version from June 2, 2010 Oregon Department of Agriculture Josh Vlach jvlach@oda.state.or.us



Drosophila suzukii female

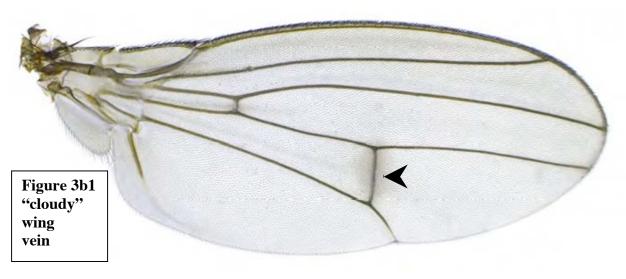
IMPORTANT: This is a dichotomous key. Dichotomous keys only work properly when specimens are worked through the key step by step. Characters cannot be taken from the key and used independently. Doing so will result in misidentifications.

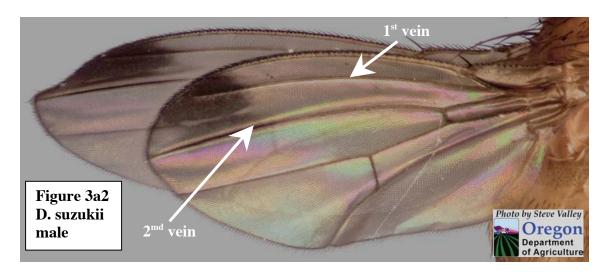
1. a.	Two wings and two halter	es (Figure 1a)	2
b.	Either four OR no wings.	No halteres	Not a fly

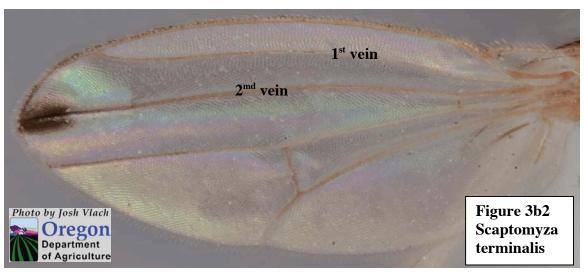


- 3. a. Wings clear (Figure 3a1) or with a dark spot near the end of the leading edge of the wing on first vein (Figure 3a2)......4
 - b. Wings with bands, multiple spots, with a crossvein with a darkened "cloudy" area around it (Figure 3b1), or a spot at the tip of the wing on second vein (Figure 3b2).....not *D. suzukii*



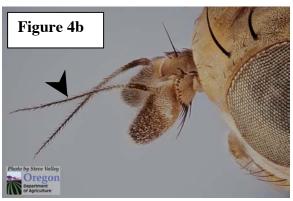






4.	a. Short, stubby antennae with branched arista (Figures 4a)		
	•••••	. 5	
	b. Long antennae or short stubby antennae with an unbranched		
	arista (Figure 4b) not D suzuk	zii	





6.	a. With single dark spot near wing tip
	b. Without spot near wing tip

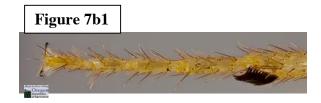


Drosophila suzukii male character summary:

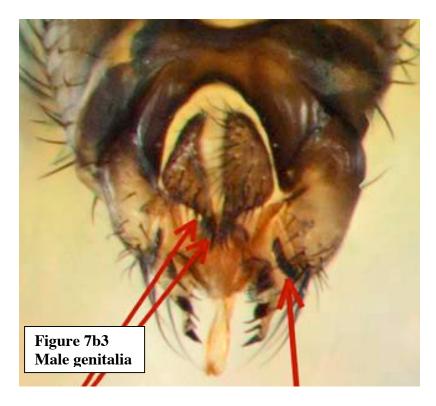
- 1. Light yellow or brown fly with red eyes.
- 2. Dark spot on the leading edge of the wing near the tip, centered on the first major wing vein
- 3. Markings consist of bands at the ends of abdominal segments. These bands are unbroken.
- 4. Front feet with two combs each. Combs with 3 to six teeth. Teeth of combs parallel to the length of the foot.

- 7. a. Without combs on feet (Figure 7a) 8 (females)
 - b. With one (Figure 7b1) or more (Figure 7b2) combs on front feet or with male genitalia (Figure 7b3)......10 (males)









8.	a.	Large sclerotized (hard, shiny and dark), ovipositor with strong
		serrations or teeth (saw-like edge when fully exposed)
		(Figure 8a)9
		b. Small soft ovipositor sometimes with weak serrations or teeth
		(Figure 8b) NOPE



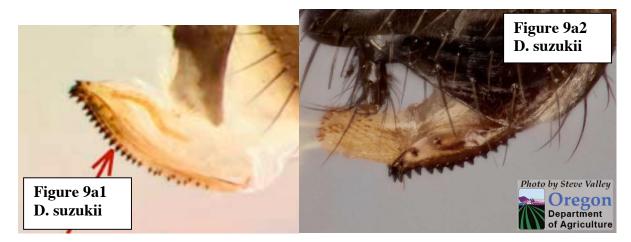


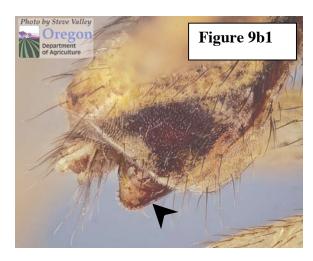
9. a. Teeth on ovipositor much darker than the rest of ovipositor (Figure 9a1, 9a2).

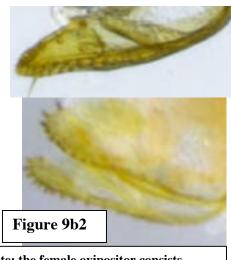
b. Teeth on ovipositor the same color as the rest of the ovipositor (at most slightly darker) (Figure 9b1, 9b2)

OR body with stripes, spots, or patterns other than above (Figure 9b3) including a break in the center of the abdominal bands (Figure 9b4)...

NOPE

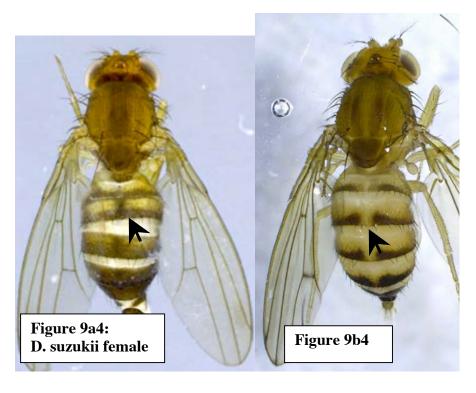


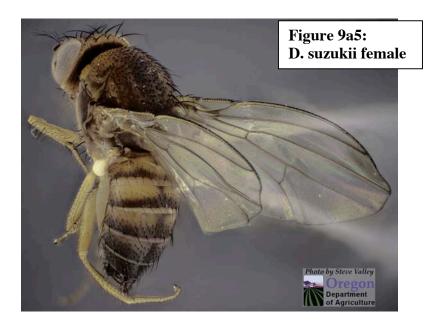




Note: the female ovipositor consists of two halves, visible here





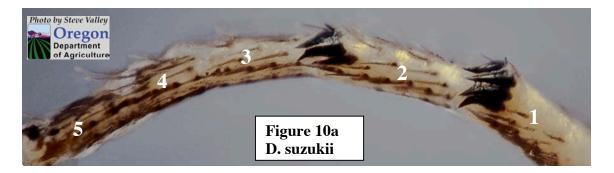


Drosophila suzukii female character summary:

- 1. Light yellow or brown fly with red eyes.
- 2. Large, hardened, saw-like ovipositor with dark teeth.
- 3. Markings consist of bands at the ends of abdominal segments. These bands are unbroken.
- 4. No dark areas around wing veins.
- 5. No combs on front feet.
- 6. Smaller than 1/8" or 4mm.

10. Males.

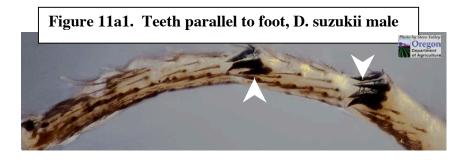
- b. Front feet with 1 (Figure 10b), three, or more combs on front feetnot *D. suzukii*

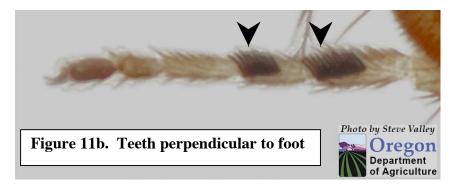


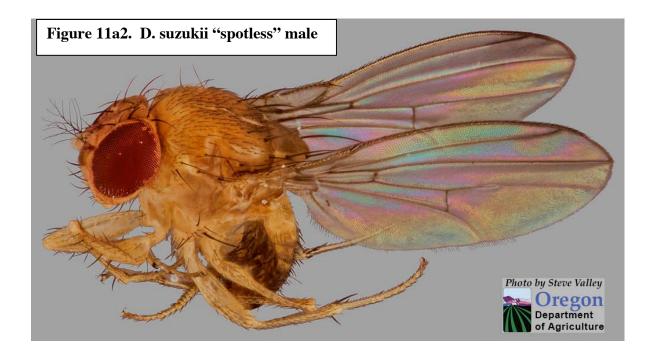


11. a. Front feet with teeth of combs on first and second segments parallel to the length of the foot and combs with 3 to 6 "teeth" (Figure 11a1),

b. Front feet with teeth of combs on front feet perpendicular to the length of the feet or with more than 6 "teeth" (Figure 11b) OR body with patterns other than above (bands on body, split bands on abdomen, etc.)......not *D. suzukii*







Drosophila suzukii "spotless" male character summary:

- 1. Light yellow or brown fly with red eyes.
- 2. Front feet with two combs each. Combs with 3 to six teeth.

Teeth parallel to the length of the foot.

3. Markings consist of bands at the ends of abdominal segments.

These bands are unbroken.

- 4. No dark areas around wing veins.
- 5. Smaller than 1/8" or 4mm.

NOTE: All images have been taken from materials produced by Martin Hauser of CDFA unless otherwise noted.