

# Spotted Wing Drosophila Identification Guide

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With practice, identifying spotted wing drosophila (*Drosophila suzukii*) is possible using a hand lens in the field. For the novice, this will take some practice but it is achievable after seeing a few traps with spotted wing drosophila (SWD) captures. One of the biggest challenges is identifying SWD from among the many other small flies, including other species of drosophila captured in traps. This guide has been prepared based on experiences in Michigan, to help the user identify SWD.

**Identifying spotted wing drosophila.** Adult SWD are 2-3 mm long, have rounded abdomens, and may be seen on the outside of fruit or in traps. Flies are light yellow or brown with red eyes. Dark unbroken bands are seen across the abdominal segments. One major distinguishing characteristic is that the adult male SWD has one distinctive dot on each of its wings along the 1<sup>st</sup> vein (Figure 1). Male SWD also have two dark bands on each of the forelegs. These bands are known as combs and contain three to six teeth (Figure 2). Female SWD are harder to identify, as they do not have these wing spots. Female SWD have serrated ovipositors with two rows of serration that are longer than other vinegar fly species (Figure 3).

Figure 1.

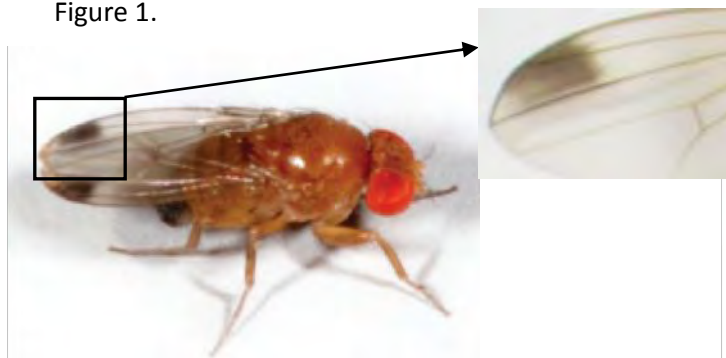


Figure 2.

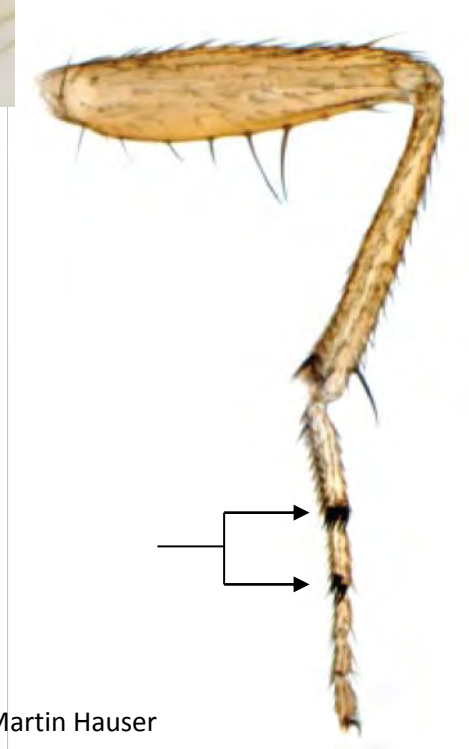
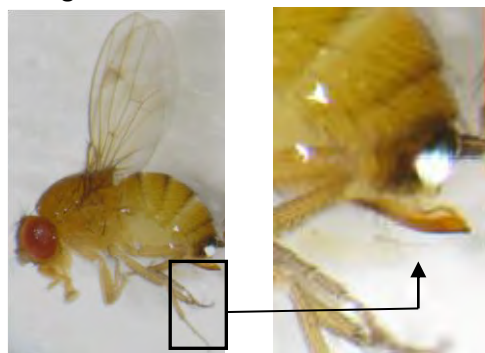


Figure 3.



Photos by Martin Hauser

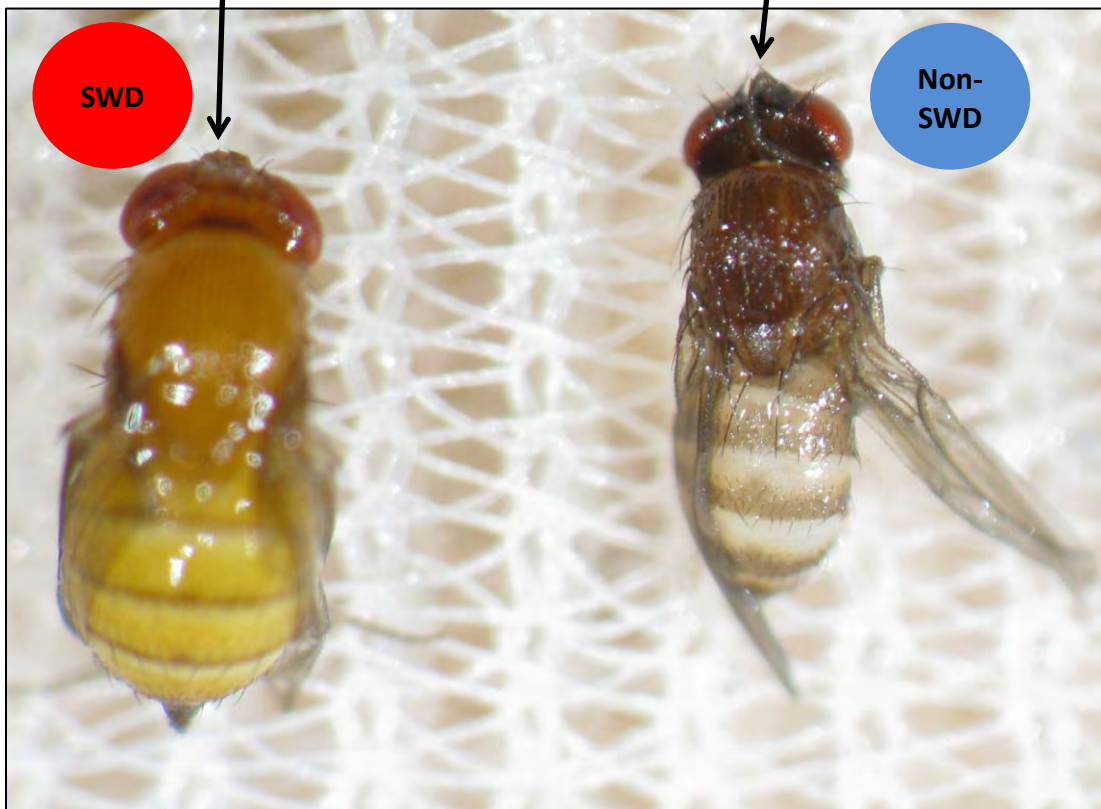
# Comparison of SWD Imitator Flies in Michigan

*Note: this guide is NOT designed for the positive identification of SWD, only to tell which flies are not SWD.*

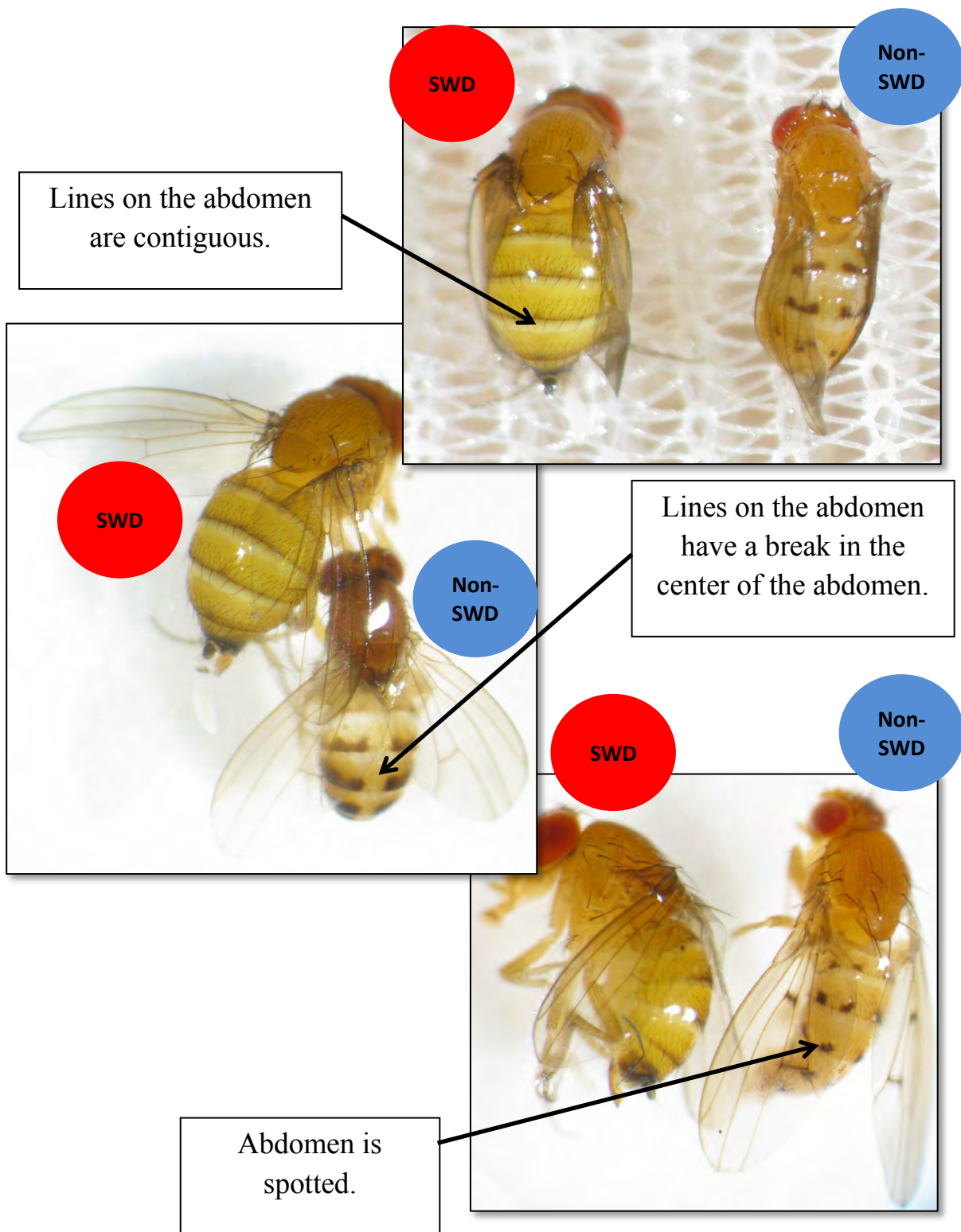
## 1. Body and head color

Head and body are a golden brown color.

Head and thorax are dark. The darkness of the specimen can vary greatly, but usually at least the head is dark.

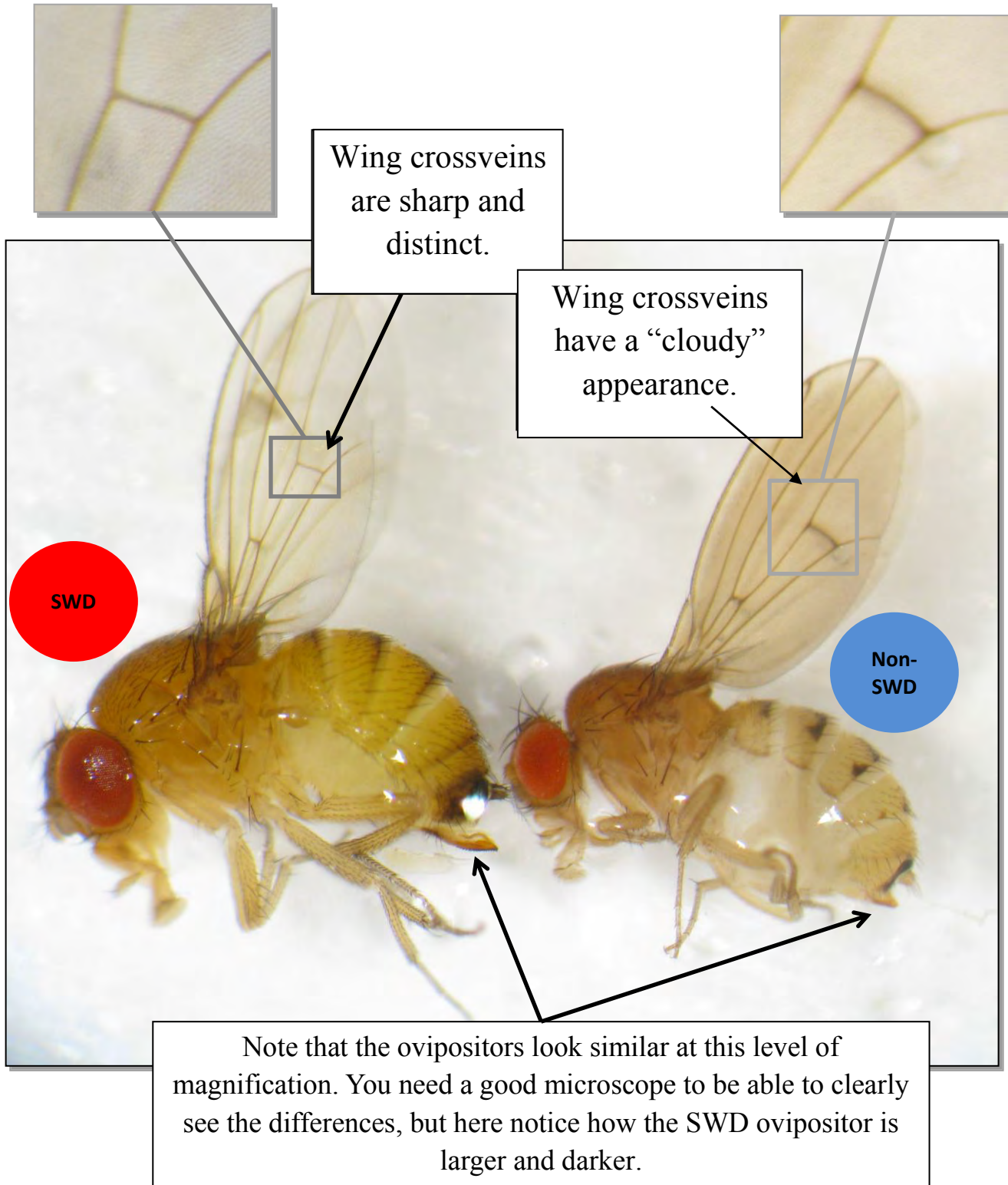


## 2. Abdominal Pattern

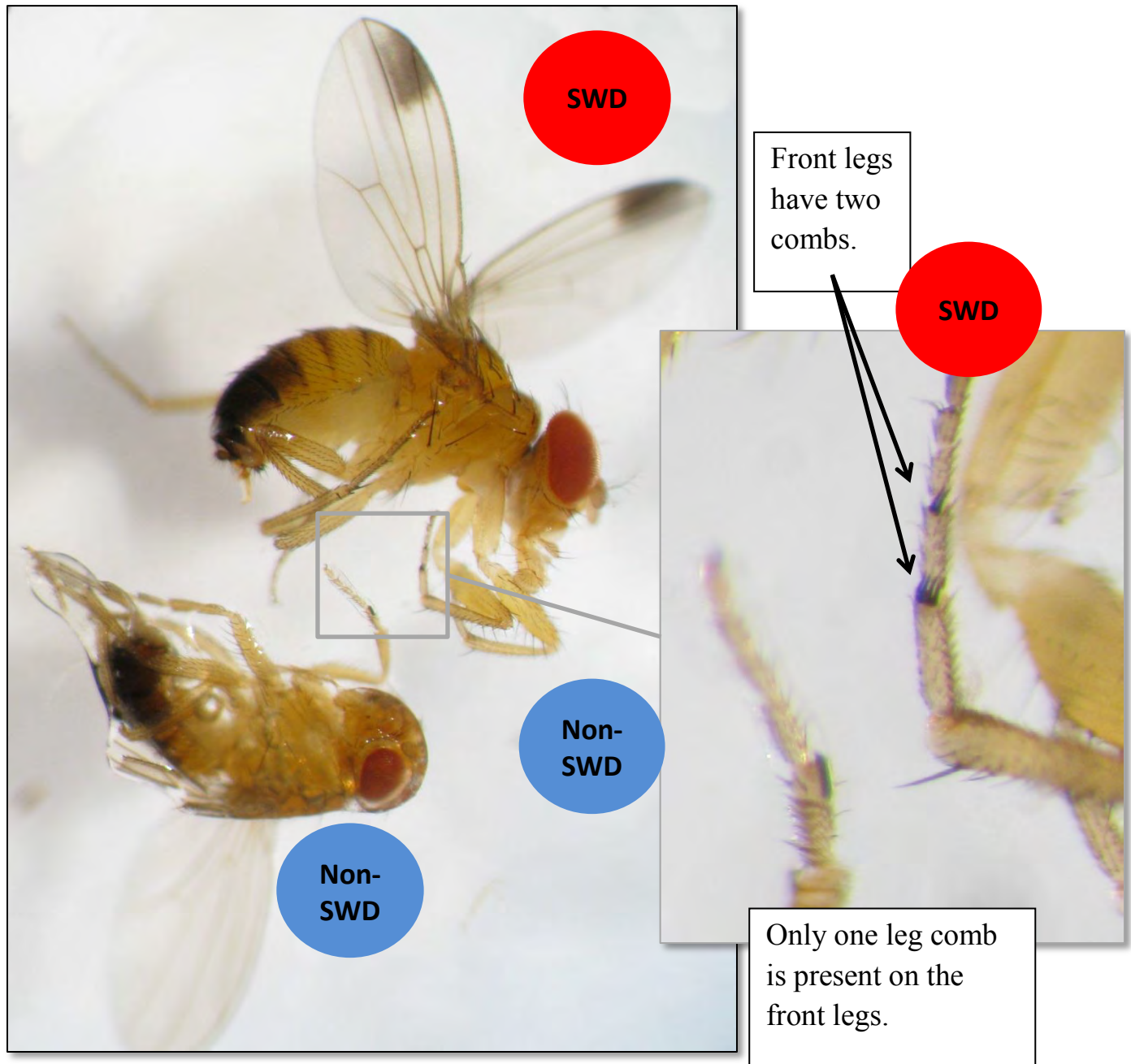




### 3. Wing crossveins



## 4. Front legs on males



## Common SWD Imitator Flies

These images are of flies on yellow sticky boards collected from spotted wing *Drosophila* traps. With practice, these can be distinguished from SWD with relative ease.

