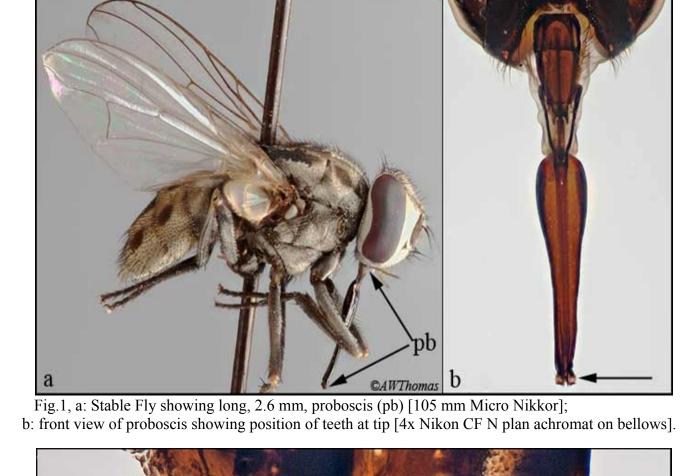
## More Fly (Diptera) Mouthparts

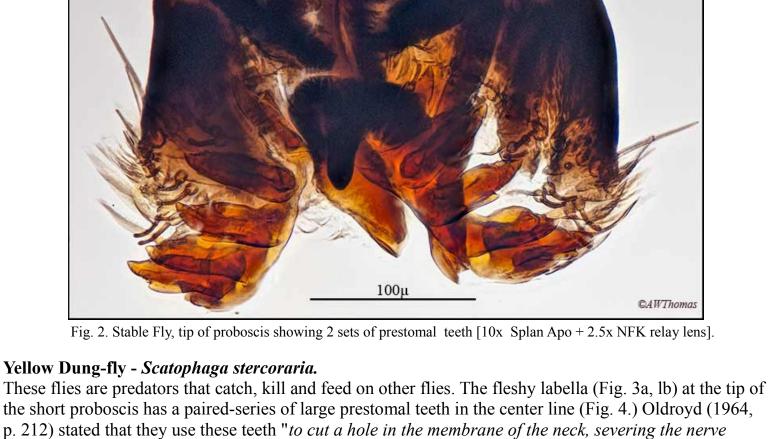
Anthony Thomas (Canada)

This is a follow-up to my recent articles on Diptera mouthparts, issues 192 & 198: October 2011 & April 2012, where I examine the terminal mouthparts of 3 other species that have modifications for 'rasping' surfaces.

## The Stable Fly – Stomoxys calcitrans.

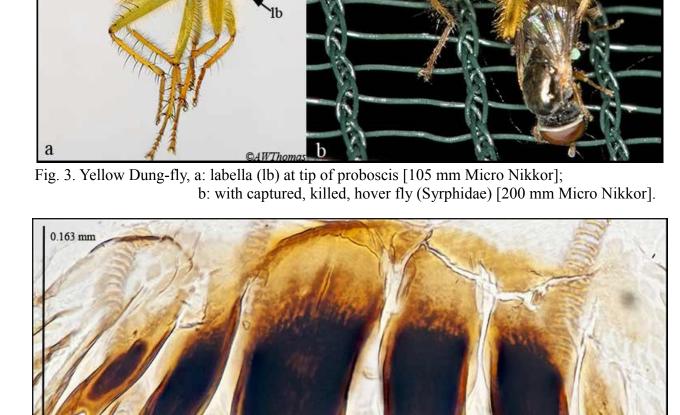
This common species (Fig. 1a) has a disproportionally long proboscis (Fig. 1a, pb; b) that is tipped with a horny ball accommodating 2 sets of 6, well developed, prestomal teeth (Fig. 2). These teeth are the main implements for cutting into mammalian skin, the resulting blood flow is then sucked up the long proboscis into the gut. Unlike most other blood-sucking flies both sexes feed on blood.





cord, and crippling the victim, and at the same time releasing the body fluids which are sucked out of the

head and thorax [of the captured fly]". Later they feed on the abdomen (Fig. 3b).



to keep blood flowing, blood is then sucked up into the gut.

Fig. 4. Yellow Dung-fly, one set of a pair of prestomal teeth [40x Splan Apo + 2.5x NFK relay lens].

This small grey fly is not the true House Fly (*Musca domestica*) but is in the same family and I find it around the outside of my house; it is in the genus Muscina. It is included here because of the large

prestomal teeth which can be seen on the mid-ventral surface of the labella (Fig. 5 pt). They are used to abrade the surface of food and may be used to keep open a wound made by a blood-sucking fly in order

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"House Fly".

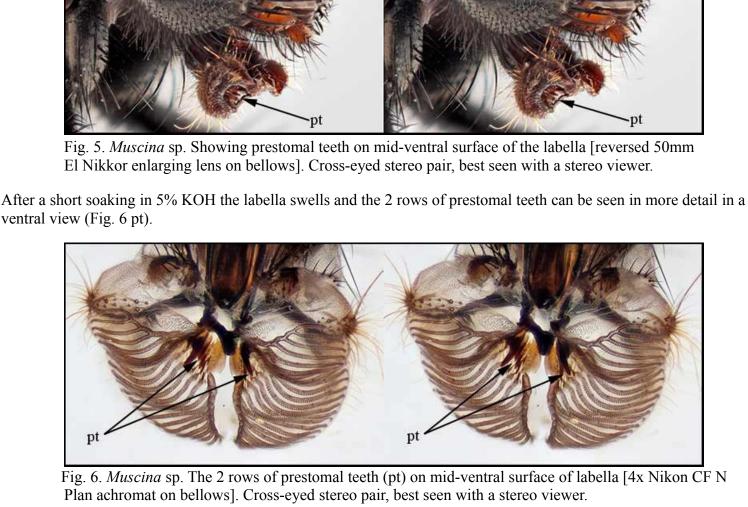


Figure 7 shows the labella flattened on a slide and rotated 90 degrees (to fit page); the 2 rows of strong prestomal teeth

can be seen at the entrance to the food canal and surrounded by the pseudotracheae of the labella.

