**Stable Fly** *(Stomoxys calcitrans)*

- Adults are found blood feeding on legs.
- Head typically facing upward.
- Immatures develop within hay feed and any wet decomposing organic material.

**Problem**: Blood feed multiple times a day causing anxiety and open wounds for secondary infections.

**Solutions**:
- Monitor flies on animals by counting flies on front leg.
- Monitor flies with traps around facilities.
- Treat when approximately 10 on front legs of animal.
- Control with sanitation and parasitic wasps.

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**Face Fly** *(Musca autumnalis)*

- Found around eyes and nose.
- Both males and females feed on nectar and spend 95 percent of their time off-host.
- Females lay eggs in fresh manure (< 10 minutes old).
- Adults fly long distances.

**Problem**: Females feed on facial secretions and can cause pink eye.

**Solutions**:
- Treat when 10-15 flies are feeding per animal.
- Control with insecticides.
- Reduce dense vegetation in pasture.
- Unaffected by parasitic wasps.

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**Horn Fly** *(Haematobia irritans)*

- Found on back, withers, shoulders belly and udders.
- Head typically facing down.
- Adults are obligate ectoparasites and leave host to lay eggs in dung pats.

**Problem**: Males and females blood feed 20-30 times a day, which reduces calf weights and milk production and can transmit mastitis-causing bacteria.

**Solutions**:
- Monitor flies on animals with images.
- Control with sanitation, vacuums and insecticides.

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**House Fly** *(Musca domestica)*

- Found on rear of animal and wet surfaces.
- Eggs are laid in compost, manure and other decomposing wet material.

**Problem**: Annoyance and mechanical vectors for numerous pathogens.

**Solutions**:
- Monitor weekly with spot cards.
- Treat when spot cards are > 20 percent spotted.
- Control with sanitation, insecticides and parasitic wasps.

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**Common Solutions for All Flies**:

1. **Sanitation**: Remove wet organic material to prevent the next generation of flies from developing.
2. **Exclusion**: Use netting, fans and/or screens to keep flies out of facilities.
3. **Record and Rotate**: Insecticide active ingredients to prevent development of resistance.
Sources:
- Painting of cow: Meredith Tarkington
- Image of stable fly: bugguide.net/node/view/1093163
- Image of horn fly: bugguide.net/node/view/683558
- Image of house fly: https://bugguide.net/node/view/1284785
- Image of face fly: bugguide.net/node/view/1111093
- More Information: veterinaryentomology.org
- Insecticide and Active Ingredient Database: veterinaryentomology.org/vetpestx

Disclaimer
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