

### **Toxicology Project Insect Activity Field Data Collection Form**

Page 1, top right hand side term present

Days Since Placement: how many calendar days have passed since the donor was placed on the surface at the outdoor research facility.

ADD: Accumulate degree days. See citations for method

Page 1, top left hand side terms present

Absent=0: there is no presence of the noted insect and activity present

Present=1: there is a presence of the noted insect and activity present

Artificial Orifices: A non-natural opening on the donor, can be from animal or insect scavenging.

Natural orifices include areas like the eyes, nostrils, ears, etc.

Description for column of Estimated instar

Instar=1: maggots of the life stage of 1<sup>st</sup> instars are present in the noted region

Instar=2: maggots of the life stage of 2<sup>nd</sup> instar are present in the noted region

Instar=3: maggots of the life stage of 3<sup>rd</sup> instar are present in the noted region

Unclear=4: maggots of mixed life stages of 1<sup>st</sup>-3<sup>rd</sup> are present in the noted region

### **Toxicology Project Scavenger Activity Field Data Collection Form**

Page 1, top left hand side term present

Days Since Placement: how many calendar days have passed since the donor was placed on the surface at the outdoor research facility.

ADH: Accumulated Degree Hours. See citation for method

Description for row of *Any Scavenging Present*

Absent=0: no signs of any damage to the donor caused by scavenging of any type

Present=1: signs of damage to the donor caused by scavenging of any type

Unclear=2: there may be damage to the donor, but the cause of damage is indeterminable

Columns of qualifications being observed

Arthropod Scavenging: damage to the donor or surrounding are as a result of scavenging from an invertebrate animal such as an insect or spider

Non-Insect Scavenging: damage to the donor or surrounding area as a result of scavenging from a vertebrate animal such as a bird or racoon

Bone exposure: Visibility of the donor's bones from scavenging or the decomposition process.

Tendon exposure: Visibility of the donor's tendons from scavenging or the decomposition process

Animal Markings: Features left behind from arthropods or non-insect scavengers. This may include features such as scratch marks, bite marks, paw prints, etc.

Deflation: a loss of structural integrity resulting in a concave appearance

1: Present – A complete concave appearance in the noted region, caused from lack of soft tissue, usually due to scavenging. No structural integrity remains.

2: Partial – A slightly concave appearance in the noted region. Some structural integrity remains.

0 or Blank- No concavity is observable. Complete structural integrity is present

New Scavenging Site: A previously unrecorded scavenging site, can include both arthropod and non-insect scavenging.

0 or Blank: No new Scavenging present

1: New scavenging present

2: Unclear if damage is new, old, or the result of scavenging

### **Toxicology Project Decomposition Fluid Field Data Collection Form**

Page 1, Top right side terms present

Days Since Placement: how many calendar days have passed since the donor was placed on the surface at the outdoor research facility.

ADD: Accumulate degree days. See citations for method

Description for row of *Any Fluid Present*

Absent=0: There is a complete lack of decomposition fluid on or around the donor. This does not include fluid from weather

Present=1: There is the presence of any decomposition fluid on or around the donor. This does not include fluid from weather.

Maggots: Each segment of the donor requires the noted absence or presence of maggots. This is due to the influence maggots have over creation and appearance of decomposition fluid.

Absent=0: There are no observable maggots of any life stage

Present=1: Maggots of any life stage are observable

Texture descriptions of decomposition fluid

Smooth: A consistent surface free from bumps or irregularities

Liquid-y: high viscosity, can flow

Frothy: composed of many small air bubbles

Stringy: resembles fibrous or sinewy matter, pulls away with connections to itself

Viscosity descriptions of decomposition fluid

Watery: consistent and thin viscosity, flowing

Oily: thin viscosity, easy flowing, with a sheen on top or throughout the matter

Syrupy: thick, but still able to flow.

Saucy: still able to be poured, but much denser. Think of ketchup or cream-based soup

Pasty: Not able to pour smoothly, may still have a smooth texture. A soft, but stable texture