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| **Mosquito Trapping** | | |  |  |
|  | | |  |  | | |
| Submit To | | | | | | |
| **Please submit completed reporting form with specimens to:**  Anne Duffy  243 Israel Road SE  Tumwater, WA 98501  Phone: 360-236-3372  Email: anne.duffy@doh.wa.gov | **Internal Use Only**  Data Entered:  Data Entry Validated: | | | | | |
| Location | | | | | | |
| Location Name:       County:        Site Code:  Trap Set Date:       Time:       Temp:  Trap Pick up Date      Time:       Temp:  Weather Notes:  **NEW SITE** (decimal degrees):  Latitude:  Longitude: | | **Collecting Agency/Volunteer**  Trapper Name:  Phone:  Email: | | | |
|  | | **Catch Bag Number** (for trapper’s use): | | | |
| **Comments:** | | | | | |
| Catch Description | | | | | | |
| More than 12 mosquitoes  Less than 12 mosquitoes  No mosquitoes | | | | | | |
| Trap Type/Attractant EVS Trap w/ Dry Ice only (no light)  EVS Trap w/ Dry Ice and Light  EVS Trap w/ CO2 Cylinder only (no light) | Gravid Trap  Dip  Other | | | | | |

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| Pool #1 |

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| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes increpitus*  *Aedes intrudens*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| Pool #2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| --- |
| Pool #3 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| --- |
| Pool #4 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| Pool #5 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| Pool #6 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| --- |
| Pool #7 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| --- |
| Pool #8 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| --- |
| Pool #9 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

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| --- |
| Pool #10 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mosquito Species**  *Culex pipiens*  *Culex tarsalis*  *Anopheles freeborni*  *Anopheles occidentalis*  *Anopheles punctipennis*  *Coquillettidia perturbans* | *Culiseta particeps*  *Culiseta incidens*  *Culiseta inornata*  *Culiseta minnesotae*  *Culiseta particeps*  *Aedes aboriginis*  *Aedes cinereus* | *Aedes dorsalis*  *Aedes fitchii*  *Aedes intrudens*  *Aedes increpitus*  *Aedes sierrensis*  *Aedes sticticus*  *Aedes vexans*  Other | **Number Collected**  **Female / Male**  **Identifier Initials**   |  | | --- | | **For PCR Testing:**  **Tube ID**  **# Females** | |

**Instruction for pooling vectors for PCR testing**

1. Freeze-kill mosquitoes by placing the filter patch plastic bags (secondary containment) with the mosquito catch bags (primary receptacle) in the freezer for 90 minutes or longer.
2. Remove from freezer, and keep dead mosquitoes cold to preserve virus RNA. Use a chill table during mosquito identification, or a metal baking sheet sitting on top of dry ice or frozen ice packs.
3. Use sterile forceps and pool vectors *Culex pipiens* and *Cx. tarsalis* into pools of up to 50 mosquitoes but not less than 10. For catches greater than 50, split into pools so that each pool has a strong representation of the catch. Example: split a catch of 60 *Cx. pipiens* into two pools of 30 females.
4. Place each pool into separate 2ml tubes containing DNA/RNA Shield buffer that have been provided. Keep tubes on ice in an ice bucket or in a frozen mini-cooler tube rack throughout the process.
5. Sterilize forceps with 70% isopropyl alcohol between each pool.
6. Record Tube ID on Mosquito Reporting Form under “For PCR Testing.”
   1. Tube ID - Location Code/Site #/Month/Day/Species Code/Pool #
      1. Location code should be one or two letters that represent the trap location name.
      2. Site # should match the number assigned to the trap site at the location.
      3. Month and day should not include “0” as placeholder (i.e., July 7 written as 77).
      4. Species code should be “P” for *Cx. pipiens* and “T” for *Cx. tarsalis*.
      5. Pool number is the reporting form Pool #.

Example: Mosquito trap from Nisqually Woods (N) at Trap Site 2 (2) collected June 8, 2019 (68) yielded four pools for PCR testing; three pools of *Cx. pipiens* (P) and one pool of *Cx. tarsalis* (T):

* *Cx. pipiens* pool 1: N2 68P1
* *Cx. pipiens* pool 2: N2 68P2
* *Cx. pipiens* pool 3: N2 68P3
* *Cx. tarsalis* pool 1: N2 68T4

1. Write the Tube ID on a provided label using a fine-tipped permanent marker, and place the label on its corresponding tube.
2. Freeze the tubes of vector pools in DNA/RNA Shield buffer before shipment, if possible. Whether frozen or not, ship tubes with frozen ice packs to keep cold during shipment.
3. Enclose the mosquito trapping reporting form in a Ziploc bag and place in the shipping cooler along with specimens.

*Note: Dead mosquitoes and vector pool samples preserved in DNA/RNA Shield buffer do not need to be shipped as a Category B Biological Substance, and do not require the UN3373 labeling.*