**Quarterly Report June - August 2014**

**Miconia**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Watershed** | **Aerial Acres Surveyed** | **Ground Acres Surveyed** | **Mature Controlled** | **Immature**  **Controlled** | **Work Hours** |
| Ahuimanu | 32.47 | 36.31 | 0 | 1 | 64.40 |
| Heeia | 0.00 | 33.35 | 0 | 0 | 40.00 |
| Kahaluu | 259 | 0.00 | 0 | 0 | 46 |
| Kalihi | 0.00 | 85 | 1 | 31 | 167 |
| Kawainui | 105 | 0.00 | 0 | 0 | 19 |
| Makiki | 0.00 | 9.18 | 0 | 0 | 40.00 |
| Manoa | 532 | 91 | 0 | 43 | 240 |
| Nuuanu | 0.00 | 76 | 0 | 1 | 182 |
| Waimanalo | 288.02 | 0.00 | 0 | 0 | 20.00 |
| Waimea | 407.79 | 0.00 | 0 | 0 | 20.00 |
| **TOTAL** | **1624.28** | **349.4** | **0** | **76** | **838.4** |

**Cape ivy**

Surveys and treatment of *Delairea odorata* wereconducted over 31 acres in Kaloi watershed culminating in 177 work hours.

**Devil weed**

Crew conducted surveys and treatment of *Chromolaena odorata* in Kahuku and in Kahana Valley.

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| --- | --- | --- | --- | --- | --- |
| **Watershed** | **Acres Surveyed** | **Mature** | **Immature** | **Total Plants** | **Work Hours** |
| Kahana | 17 | 24 | 1609 | 1633 | 90 |
| Paumalu | 323 | 34 | 503 | 537 | 360 |

**Fireweed**

Survey and treatment for *Senecio madascariensis* was conducted in the Keamanea watershed.

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| --- | --- | --- | --- | --- | --- |
| **Watershed** | **Acres Surveyed** | **Mature** | **Immature** | **Total Plants** | **Work Hours** |
| Keamanea | 32.60 | 0 | 0 | 0 | 32 |

**Fountain grass**

Survey for and treatment of *Pennisetum setaceum* were conducted over 64.55 acres. A new fountain grass located was discovered by a partner agency in Waianae. It is a large mature plant and OISC is working on gaining permission to survey and remove the grass.

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| --- | --- | --- | --- | --- | --- |
| **Watershed** | **Acres Surveyed** | **Mature** | **Immature** | **Total Plants** | **Work Hours** |
| Kaneohe | 0.02 | 2 | 1 | 3 | 4.00 |
| Kaupuni\* | 0.00 | 0 | 0 | 0 | 0 |
| Waimalu | 64.53 | 0 | 1 | 1 | 20.00 |
| **TOTAL** | **64.55** | **2** | **2** | **4** | **24** |

**Himalayan blackberry**

Survey and treatment for *Rubis discolor* was conducted in Palolo over 6 acres.

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| --- | --- | --- | --- | --- | --- |
| **Watershed** | **Acres Surveyed** | **Mature** | **Immature** | **Total Plants** | **Work Hours** |
| Palolo | 13 | 1 | 305 | 306 | 111 |

**Pest Response**

**Coconut rhinoceros beetle**(*Oryctes rhinoceros*)

OISC is working in partnership with the U.S. and Hawaii Department of Agriculture to survey for a new pest species on Oahu, the coconut rhinoceros beetle. This pest beetle is only known to occur on Oahu in the State of Hawaii. It is a pest of a variety of palm and pandanus tree species.

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| --- | --- | --- |
| **Watersheds** | **Acres Surveyed** | **Work Hours** |
| Heeia | 101.07 | 4.00 |
| Kaelepulu | 10.29 | 2.00 |
| Kahawai | 6.33 | 4.00 |
| Kalihi | 0 | 0 |
| Kaneohe | 1.58 | 2.00 |
| Kawainui | 5.54 | 2.00 |
| Keaahala | 0.79 | 1.00 |
| Koko Crater | 711.84 | 12.00 |
| Waimanalo | 1.58 | 3.00 |
| **TOTAL** | **839.02** | **30** |

**Coqui** (*Eleutherodactylus coqui*) **Early Detection Surveys\***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Watersheds** | **Acres Surveyed** | **# of surveys** | **# of frogs detected** | **# of frogs controlled** | **Work Hours** |
| Kamilonui | 3 | 2 | 0 | 0 | 7 |

\* All work is conducted in collaboration with the Hawaii Department of Agriculture

**Little fire ant** (*Wasmannia auropunctata*) **Early Detection Surveys\***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Watersheds** | **Acres Surveyed** | **# of surveys** | **LFA detected (y/n)** | **Work Hours** |
| Honouliuli | 4.36 | 2 | N | 20.00 |
| Kahawai | 14 | 4 | N | 58.00 |
| Kaloi | 8.46 | 2 | N | 28.00 |
| Kapalama | 0.323 | 3 | N | 2.00 |
| Koko Crater | 3.05 | 1 | N | 7.00 |
| Makapuu | 2.61 | 1 | N | 8.00 |
| Makaua | 0.88 | 1 | N | 4.00 |
| Manuwai | 0.119 | 2 | N | 12.00 |
| Waianu | 1.07 | 1 | N | 4.00 |
| Waikele | 12 | 3 | Y | 24.00 |
| Waimanalo | 13 | 15 | Y | 132.00 |
| **Total** | **50.402** | **26** |  | **240** |

\* All work is conducted in collaboration with the Hawaii Department of Agriculture

**Naio Thrips** (*Klambothrips myopori*) **Early Detection Surveys**

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| --- | --- | --- | --- | --- |
| **Watersheds** | **Acres Surveyed** | **# of surveys** | **Thrips detected (y/n)** | **Work Hours** |
| Ala Wai | 0 | 6 | N | 3.6 |
| Kamiloiki | 0 | 1 | N | 1.5 |
| Kamilonui | 0 | 1 | N | 0.6 |
| Manoa | 0 | 1 | N | 0.6 |
| Palolo | 0 | 1 | N | 0.6 |
| Waialaenui | 0 | 1 | N | 0.6 |
| **Total** | **0** | **11** | **N** | **7.5** |

**Outreach**

OISC outreach staff participated in the Ocean Fest environmental education day at Turtle Bay and the Mililani Mauka Town Hall meeting to discuss the little fire ant infestation. They met with the group, Waihee Ahupuaa Initiative, and presented invasive species information to the Pearlridge Rotary Club, the Friends of Honolulu Botanical Garden and staff of Foster Botanical Garden and the Hoomaluhia Botanical Garden, at two neighborhood board meetings, Waimanalo and Manoa and at the Hawaii Tourism Authority annual conference. OISC staff hosted a little fire ant education table at the Hawaii Conservation Conference and HEEA educational symposium. They also attended the Hawaii State Farm Fair. OISC outreach staff hosted a little fire ant hoike curriculum session at Mililani Middle school. They conducted Best Management Practice trainings for HDOT contractors and attended the environmental council planning meeting at the Capitol.

**Monthly Volunteer Trip**

**OISC Volunteer Trip Control Results**

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| --- | --- | --- | --- | --- | --- |
| **Date** | ***Ardisia virens*** | ***Stromanthe tonckat*** | **Acres Surveyed** | **Volunteer Hours** | **Work Hours** |
| June 14 | 135 | 383 | 8.54 | 25 | 13 |
| July 12 | 36 | 30 | 7.78 | 20 | 13.25 |
| Aug 23 | 1113 | 213 | 24 | 25 | 15 |
| **Total** | **1284** | **626** | **NA** | **70** | **41.25** |