



Biocontrol Release Monitoring

Basic Information (All field with * are mandatory)

Created by: _____

Area (m²)*: _____ Date (MMM/DD/YYYY)*: _____ Time (HH:MM) AM/PM*: _____

Latitude (°)*: _____ UTM Zone*: _____ UTM Easting*: _____

Longitude(°)*: _____ UTM Northing*: _____

Employer*: _____ Funding Agency*: _____

Jurisdictions (Total percentage of area covered by jurisdiction must equal 100%)

Jurisdiction (1)*: _____ Percent Covered (%)*: _____

Jurisdiction (2): _____ Percent Covered (%): _____

Jurisdiction (3): _____ Percent Covered (%): _____

Location Description*	Access Description*

Project Code Description (1): _____

(max 50 characters)

Description (2): _____

Comments:

Monitoring Information

Linked Treatment ID*: _____ Legacy IAPP Release ID: _____

Monitoring Person (1)*: _____ Contact number: _____

Monitoring Person (2): _____ Contact number: _____

Weather Conditions Temperature (C°)*: _____ ¹Cloud Cover* : _____ ²Wind Speed (km/h)* : _____

Precipitation (select all that apply)*: Unknown or indeterminate, Drizzle, _____ Wind Direction*: _____

Intermittent showers, Steady rain, Down pour, Residual wet, Snow, Hail

Comments:

1. Cloud Cover in Okta Scale: Sky clear: 0 (0%), Few clouds: 1 (15%), 2 (25%), Scattered: 3 (26-40%), 4 (41-40%), Broken: 5 (51-65%), 6 (66-80%), 7 (90%), Overcast: 8 (100%), Sky obscured: 9 (e.g. smoke, fog)

2. Beaufort Wind Scale: <1km/h: calm (smoke rises vertically), 1-5km/h: light air (wind motions visible in smoke), 6-11km/h: light breeze (wind felt on exposed skin, leaves rustle), 12-19km/h: gentle breeze (leaves and smaller twigs in constant motion), 20-28km/h: moderate breeze (dust and loose paper raised, small branches being to sway), 29-38km/h: Fresh breeze (branches of moderate size move, small trees begin to sway), 39-49km/h: strong breeze (large branches in motion, whistling heard in telephone wires, umbrellas used with difficulty), 50-61km/h: near gale (whole trees in motion, inconvenience felt in walking against wind), 62-74km/h: gale (breaks twigs off trees, generally impedes progress, walking into wind almost impossible), 75-88km/h: strong gale (slight structural damage occurs, branches break off trees, temporary signs and barricades blow over), 89-102km/h: storm (trees uprooted, considerable structural damage), 103-117km/h: violent storm (widespread damage), 118-133km/h: hurricane (rare, severe widespread damage to vegetation and significant structural damage possible)



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Microsite Conditions

Meso-slope Position: Unknown, Crest Upper, Middle, Lower, Toe, Depression, Level, Gully

Site Surface Shape (select at least one): Unknown, Hollow, Rounded, Linear

Biological Monitoring Information

Biocontrol Present

Invasive Plant*: _____ Biocontrol Agent*: _____

Signs of Presence (select all the apply):

- Foliar Feed Damage, Seed Feeding Damage, Root Feeding Damage, Eggs, Larva(e), Adult(s),
- Oviposition Marks, Pupa(e), Exit Holes/Tunnels, Stem Feeding Damage, Feeding Frass,
- In Gall, Previous Years Evidence, Current Years Evidence

Monitoring Type*: Timed, Count

Linear Segment: Yes No

Monitoring Method*: Clipping, Excavate, Observe, Sweep (counted), Sweep (time), Tap and tray

Count Duration (min): _____ (* if doing Timed)

Plant Count: _____ (* if doing Count)

Number of Sweeps: _____ (* if doing Timed, Sweep, counted)

Start time (HH:MM)*: _____

Stop time (HH:MM)*: _____

Location agent(s) found (select all the apply):

- No Slope, Top of Slope, Base of Slope, Mid Slope, In Hollow, In Protected, Within Canopy,
- Saturated Soil, Shaded, Edged of Patch, Canter of Patch, Edge Effects

Actual Biocontrol Agents

Agent Stage*:	Adult (♀:♂)	Egg	Larva	Nymph	Pupa(♀:♂)	Other:
Live						
Dead						
Total Quantity*						

Estimated Biocontrol Agents

Agent Stage*:	Adult (♀:♂)	Egg	Larva	Nymph	Pupa(♀:♂)	Other:
Live						
Dead						
Total Quantity*						

Target Plant Phenology (Optional)

Recorded *: Yes No

Seedlings (%): _____ Rosettes (%): _____ Bolts (%): _____ Winter Dormant (%): _____

Flowering (%): _____ Seeds Forming (%): _____ Senescent (%): _____ (Sum of all values must equal 100%)

Target Plant Height (cm): (Record up to 10 heights of the tallest target invasive plants at the monitoring location.)

1. _____, 2. _____, 3. _____, 4. _____, 5. _____, 6. _____, 7. _____, 8. _____, 9. _____, 10. _____.

Spread Results (Optional)

Recorded *: Yes No

Agent Density (%): _____ (total agents found/number of plants surveyed or sweeps x 100)

Plant Attack (%): _____ (total number of plants with agents/number of plants surveyed or sweeps x 100)

Max Spread Distance (m): _____

Max Spread Aspect (degrees): _____