

Firefly Atlas Data Sheet: Flashing Species

Site & Survey Information

Name of primary observer:	Number of observers:	Names of additional observers:	Date:
Site Name:	Latitude (decimal degrees) *:	Longitude (decimal degrees) *:	
Location precision (meters): <input type="checkbox"/> 0-25 <input type="checkbox"/> 26-50 <input type="checkbox"/> 51-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501-1000 <input type="checkbox"/> >1000		Elevation (meters):	Approximate Area Searched (hectares)**:
Survey start time:	Survey end time:	Target species:	

*include at least 5 decimal places; **1 hectare= 10,000 square meters= 100 meters x 100 meters= 1,000 meters x 10 meters= about 2.5 acres

Weather and Moon Conditions

Time of sunset:	Moonlight (check one) *: <input type="checkbox"/> none <input type="checkbox"/> partial <input type="checkbox"/> bright	Cloud cover (check one): <input type="checkbox"/> clear (0-20%) <input type="checkbox"/> mostly clear (21-40%) <input type="checkbox"/> partly cloudy (41-60%) <input type="checkbox"/> mostly cloudy (61-80%) <input type="checkbox"/> overcast (81-100%)	
Beaufort Wind Scale (circle one) 0 calm, <1 mph 1 light air, 1-3 mph 2 light breeze, 4-7 mph, wind felt on face 3 gentle breeze, 8-12 mph, leaves & twigs in constant motion 4 moderate breeze, 13-18 mph, dust blows in wind 5 fresh breeze, 19-24 mph, small trees sway	Precipitation (check one): <input type="checkbox"/> Dry <input type="checkbox"/> Ground wet (recent rain) <input type="checkbox"/> Rain		Humidity (%):
			Humidity method: <input type="checkbox"/> measured on-site <input type="checkbox"/> weather app or website
	Temperature at start time (F):		Temperature method:
	Temperature at end-time (F):		<input type="checkbox"/> thermometer <input type="checkbox"/> weather app or website

*Partial moonlight= cloud-covered, crescent phase, partly blocked by topography or vegetation; Bright moonlight= unobstructed, quarter, gibbous or full phases

Artificial Light

Types (circle all that apply) *:	Sky glow	Light trespass	Glare
Sources (circle all that apply):	Vehicles	Street lights	Buildings Other:
Artificial Light Notes:			

*Sky glow= yellow haze in sky; Light trespass= lit-up ground or vegetation; Glare= bright light causing visual discomfort

Habitat Information

Habitat Type (circle best fit)	Examples	Habitat Notes (natural community type, dominant plant species):
Grassland/Meadow	Meadow, open, grasses dominant	
Woodland/Forest	Trees dominant, and in the over-story	
Shrub/Scrub	Arid, shrubs present and abundant	
Riparian Areas	Along lake or stream	
Tidal Marsh	Salt marsh or brackish marsh	
Open Freshwater Wetland	Bog, fen, freshwater marsh	
Forested Wetland	Swamp, cedar bog, mangrove	
Developed	Sub/urban areas; parks/gardens	

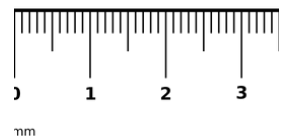
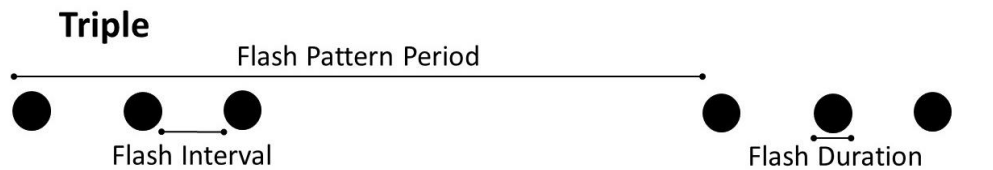
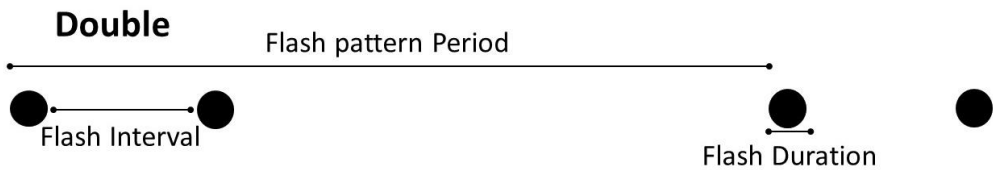
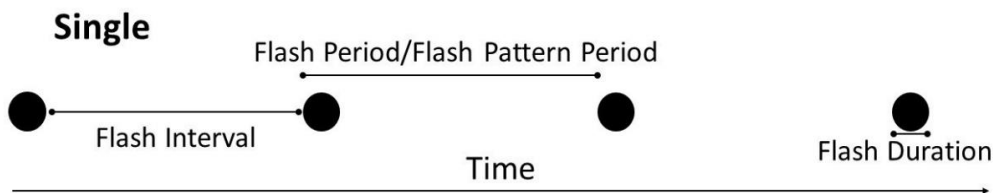
Habitat Management

I see evidence of, or know that the following have occurred in or adjacent to the site:	Management Notes (optional):
Mowing (for hay, aesthetics or wildlife management)	Yes No Suspect
Livestock grazing	Yes No Suspect
Crop growing	Yes No Suspect
Prescribed fire	Yes No Suspect
Logging	Yes No Suspect
Herbicide use	Yes No Suspect
Other pesticide (insecticide, fungicide) use	Yes No Suspect

General Survey Notes (optional)

Firefly Species:			
Approximate number observed during the survey: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50			
Observation Notes (not related to flash pattern):			
Flash Pattern Details			
Time of first observed flash:	Time of last observed flash:	Number of flashes in flash pattern (check one):	
Air temperature (F):	Air temperature (F):	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> >4	
Flash Color (circle one):	Yellow Green Orange White Blue Unknown		
Period of flash pattern (seconds):	Flash duration (seconds):	Flash interval (seconds):	
Height zones at which males displayed (check all that apply): <input type="checkbox"/> Low (0-3 ft) <input type="checkbox"/> Moderate (3-8 ft) <input type="checkbox"/> High (over 8 ft)			
Description of where flashes are:			
Description of male flash behavior:			
Description of female flash behavior (flash delay), if observed:			
Photo identifiers (image # or time):			

Flash Pattern Examples and Terms



Approximately 35 millimeters when printed on 8.5 x 11 inch paper