

Bumble Bee Survey Field Data Sheet	Unique Survey ID:
Page ___ of ___	Federal Recovery Permit Number:

Permittee/Surveyor Name(s)		Email Address		Project Name		Site Name		
Day	Month	Year	Temperature (F)	Est. Wind Speed (mph)	Est. Cloud Cover (%)			
Protocol Name (from FWS survey doc)	Transect Length (m) (if applicable)	Transect Width (m) (if applic.)	Transect ID (if applic.)	Total combined time spent surveying (min) All surveyors	Survey Start Time	Survey End Time	Total Survey Area (m^2)	Total Site Area (m^2) (including area not surveyed)

Centroid of Survey Area (Decimal Degrees)		Survey Area Boundaries (Decimal Degrees)			
LAT	LONG	LAT North of Boundary	LAT South of Boundary	LONG West of Boundary	LONG East of Boundary

Habitat Type (Circle dominant type) From National Land Cover Database, each classification is further defined here https://www.mrlc.gov/nlcd11_leg.php		% Est. Vegetative cover (circle one)	Number of native plant spp. in flower (circle one)	Description of dominant management practices on the survey area	Description of observed or likely stressors in survey area (e.g., use of pesticides, tilling, etc.)
Open water	Mixed Forest	<10%	0 species		
DevelopedPark	Ever.Forest	10-24%	1-4 species		
Developed-Low/Med/High	Shrubland	25-49%	5-9 species		
	Grassland	50-75%	10- 14 spp		
	Pasture/Hay	>75%	15+ spp		
Barren Land	Cultivated Crop				
Decid. Forest	Woody wetland				
	Herb. wetland				
	Other				
File/folder names of representative survey area photograph(s)				Supporting map file/folder name(s)	

Bumble Bee Survey Field Data Sheet Page __ of __	Unique Survey ID: Date:	Transect ID (if applicable)
Were <i>Bombus</i> present? Y or N	Are Honey Bees (<i>Apis</i>) present? Y or N	<i>Bombus to Apis Ratio (circle closest estimate) 20+:1, 2-19:1; 1:1; less than 1:1</i>

Species	No. of Females	No. of Males	No. of Queens	Flowers or species of plant being used	Actual (A) or Estimated (E) counts?	% ID Conf*	Distance (m) Distance sampling only

*Self evaluation of your confidence in your identification of each species (95-100% confident, 75-94%, 50-74%, 5-49%, <5%).

Individual Bee Data for <i>B. affinis</i> (Enter each <i>B. affinis</i> capture point as separate row)					<i>B. affinis</i> Capture Point (Decimal degrees)		Distance Sampling only
Species	No. of Females	No. of Males	No. of Queens	Flowers or species of plant being used	LAT	LONG	Distance (m)
<i>B. affinis</i>							
<i>B. affinis</i>							
<i>B. affinis</i>							
<i>B. affinis</i>							
<i>B. affinis</i>							

File Names of Photographs and Map Files: