

NATIVE BEE COURSE FLOWER-VISITING INSECT SURVEY DATA SHEET 2019

Fixed Route Survey 90 x 2 m curved path ID/counted flower visitors on flowers steady pace one direction 15 min

RED TEAM 20-year expert (with S & C)

Start: 2:00 End: 2:15 p.m.

INSECT	BEE GENUS / SPECIES	COUNT (tally e.g. ### III)	SUM (e.g. 5)	TOTAL INSECT COUNTS
BEE	Apis mellifera (honey bee)	### I	6	
	Bombus pensylvanicus (bumble bee)	### I	6	
	Xylocopa virginica (carpenter bee)	###	5	(2 carpenter spp)
	Xylocopa micans (carpenter bee)	I	1	
	Diadasia enavata (hairy leg/longhorn)	I	1	
	Melissodes (hairy leg/longhorn)	### II	7	
	Megachile exile (hairy belly/leafcutter)	### II	7	(2 leafcutter spp)
	Megachile sp. (hairy belly/leafcutter)	###	5	
	Anthidiellum	III	3	
	Centris atripes	I	1	
	Coelioxys sp (cuckoo bee)	I	1	
	11 Bee species, 10 Native bee species	BEE COUNT	43	43 Bees - 6 HB = 37 NB
NON-BEE	Brachygastra mellifica (Honey wasp)	I	1	
	Skipper butterfly	### I	6	
	Butterfly	II	2	
	3 species non-bee insect	NON-BEE COUNT	9	9 non-bees of 52 insects
	14 species all flower-visiting insects	INSECT COUNT	52	43 bees of 52 insects

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Observer-Recorder Names: S & C (Red Team with 20-year expert)

Start: 2:00 End: 2:15 p.m.

INSECT	BEE GROUP	COUNT (tally e.g. IIII III)	SUM (e.g. 5)	TOTAL INSECT COUNTS
BEE Little or no hair on underside of abdomen (pollen on leg hair or elsewhere)	Honey bee (<i>Apis mellifera</i>)	IIII IIII IIII	15	
	Bumble bee	IIII IIII IIII II	17	
	Large carpenter bee	I	1	
	Hairy leg bee / Longhorn	I	1	
	Green sweat bee		0	
	Striped sweat bee		0	
	Tiny dark bee		0	
	Striped abdomen - miner		0	
Brush of hair under abdomen carries pollen	Striped abdomen - plasterer		0	
	Striped abdomen - oil-collector		0	
	Hairy belly bee / striped leafcutter		0	
	Metallic hairy belly bee		0	
No hair	Cuckoo bee / parasitic bee		0	
	Unidentified native bee	IIII IIII	9	
	4 Bee species, 3 Native bee species	BEE COUNT		43 TOT – 15 HB = 28 NB
NON-BEE	Flies	IIII I	6	
	Wasps	I	1	
	Butterflies/Moths	IIII IIII I	11	
	UFI			
	3 species non-bee insects	NON-BEE COUNT		18
	7 species flower-visiting insects	INSECT COUNT		61

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Fixed Route Survey 90 x 2 m curved path ID/count flower visitors on flowers steady pace one direction 15 min

Location (Town, City) Lat/Long	Wildflower Center, Austin, TX Lat. 30° 11' 7.60" N Long. -97° 52' 23.56" W		
Date (dd/MMM/yyyy)	Saturday, 05/OCT/2019		
Time (CST) (circle a.m. or p.m.)	Start: 2:00	End: 2:15	a.m. <u>p.m.</u>
Ambient air (circle one)	Cool Warm <u>Hot</u>		
Skies (circle one)	<u>Clear</u> Partly cloudy Cloudy-bright overcast		
Wind: Beaufort scale 0-4 (circle one)	Smoke rises (<u>0</u>) Leaves rustle (1) You feel wind on face (2) Leaves move (3) Small branches move (4)		

Simplified Vegetation Survey: check veg. class, list dominant plants, estimate amount of inflorescences

Site Vegetation	<input checked="" type="checkbox"/>	Dominant Plants, common name (daisy, sage, legume...)	Few (1-50)	Moderate (50-200)	Many (200-500)
Open Woodland	<input type="checkbox"/>				
Shrub-land	<input type="checkbox"/>				
Grassland / Prairie	<input type="checkbox"/>				
Gardens (<u>native</u> /not)	<input checked="" type="checkbox"/>	Native Texas Hill Country wildflowers, grasses Salvia farinacea, Ageratina, Pavonia, Wedellia,			<input checked="" type="checkbox"/>
Agricultural crops	<input type="checkbox"/>				

Bio-Labs, University of Texas, Austin, TX Lat. 30°17'10.10" N, Long. -97°44'21.91" W