Pollinator Habitat Assessment Instrument

Data collection

Descriptions

Layer (General Name)	ShapeFile File Name	Layer Type	Field Category	General Field Name	Database Field Name	Field Type	Entity/Attribute Name	Entity/Attribute Code/Score	Attribute Definition / Examples	Image Reference	Instrument	Citation for Instrument
				Parcel id	ParcelUWID	Double	Data collection specific parcel id number		The parcel id number for our data collection efforts was generated by using the row id #+1.			
				Name	Name	String/Text	Your name		Please type your full, legally given first and last name.			
				Day of the week	Day	String/Text	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, or Saturday.		Please type the day of the week you collected your data.			
	Pollinator_data_your initials	Vector - polygon		Date	Date	Date	Date		Please fill out the date you collected your data.			
Pollinator habitat data collection			General data collection information	Time	Time	Time	Time		Please fill out the time of day you collected your data.			
				Weather	Weather	String/Text	Weather options include: sunny, partly cloudy, cloudy, raining, wintery mix (i.e. snow, sleet, and/or freezing rain).		Please fill out the weather for the day and time you collected your data. Options include: sunny, partly cloudy, cloudy, raining, wintery mix (i.e. snow, sleet, and/or freezing rain).			
				Temperature	Temp	Double	Temperature in Farenheit		Please fill out the temperature in farenheit for the day and time you collected data.			

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							> 30%	1	Percent of natural or	>30%			
			Landscape features	Non-crop vegetation	NCVeg	Double	20-29.9%	0.7	vegetation within ¹ / ₂ mile of project area (whether on or off the parcel/site). This land use cover includes, prairie, shrub lands, woodlands or old fields, riparian habitat and wetlands, suburban wooded areas, non-invasive weedy areas. It does NOT include lawn		Pollinator Habitat Assessment Form and Guide	Xerces Society for Invertebrate Conservation. (2014). Pennsylvania pollinator habitat assessment form and guide. Portland, OR. Retrieved from www.xerces.org	
							5-19.9%	0.3	grass, or over-grazed pasture.				

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							<4.9%	0				
							Native plants	1				
				Dominant			Mix of native and naturalized (non- invasive) plants	0.7	Dominant vegetation			
				Dominant vegetation type	DomVegT	Double	Naturalized flowering species (e.g. alfalfa	0.5	within ½ mile of project area (whether			
							Invasive flowering plants	0	parcel/site).			
							Sod-forming grasses	0				
							> 10%	1	Percentage of parcel/site that is in natural or semi-			
							6-9%	0.7	natural habitat. This land use cover			
				Natural to	Habitat	Doubla	3-5%	0.5	includes, prairie, shrub lands, woodlands or old			
				habitat	парна	Double	1-2%	0.3	fields, riparian habitat and wetlands, suburban wooded			
			Parcel/site features				0%	0	areas, non-invasive weedy areas. It does NOT include lawn grass, or over-grazed pasture.			
					FeatMe	Double	Permanent meadows with diverse wildflowers	1				
				Additional parcel/site features	FeatB	Double	Buffers: 0.1 point for every 20% of area within 25 feet of water features (e.g. stream, irrigation ditch, pond, etc.) that is vegetated,	0-0.5	Additional parcel/site features.			

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							ideally including preferred pollinator plants					
					FeatH	Double	Hedgerows, windbreaks, or fencerows of diverse tree/shrub species for pollinators	0.5				
					FeatFC	Double	Double Annual flowering cover crops allowed to bloom, annual bee pasture, bolting crops, etc. 0.5					
					FeatW	Double	Source of clean surface water (non- contaminated) during growing season	0.5				
							>85%	1	Percentage of vegetative cover			
							45-84.9%	0.7	(non-crop area) that			1
				Non-crop forage	NCForage	Double	30-44.9%	0.5	shrubs on parcel/site. Excluding invasive			
							20-29.9%	0.3	and noxious species (e.g. knapweed,			
							<19.9%	0.1	purple loosestrife, vellow star thistle).			1
							5+ species	1	Number of species of pollinator-friendly forbs, shrubs or trees			
				Spring bloom			2-4 species	0.5	on parcel/site that bloom in spring and			
			Foraging habitat	pollinator friendly plants	SpBloom	Double	1-2 species	0.3	includes some crops and cover crops.			
			habitat				0 species	0	and noxious species (e.g. knapweed, purple loosestrife, yellow star thistle).			
							5+ species	1	Number of species of pollinator-friendly			
				Summer			2-4 species	0.5	forbs, shrubs or trees on parcel/site that bloom in summer			
				pollinator friendly	SuBloom	Double	1-2 species	0.3	and support bees. This includes some			
				plants			0 species	0	crops. Excluding invasive and noxious species (e.g. knapweed, purple			

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									loosestrife, yellow star thistle).			
							5+ species	1	Number of species of pollinator-friendly forbs, shrubs or trees			
				Fall bloom			2-4 species	0.5	on parcel/site that bloom in fall and			
				pollinator friendly plants	FaBloom	Double	1-2 species	0.3	includes some crops and cover crops.			
							0 species	0	and noxious species (e.g. knapweed, purple loosestrife, yellow star thistle).			
					SGNBS		> 20% of parcel/site with untilled, well- drained bare ground, or with sparse vegetation.	0.5				
				Sites for ground nesting bees soils		Double	5-19.9% of parcel/site with untilled, well- drained bare ground, or with sparse vegetation.	0.3	Ground nests are often marked by a small mound of excavated soil, but may also be nothing			
							< 5% of parcel/site with untilled, well-drained bare ground, or with sparse vegetation.	0.1	more than a small hole in the ground. Nests may be dug in bare soil, areas of patchy vegetation, or			
				Sites for			> 20% of parcel/site with sandy to sandy loam soil	0.5	hidden among plants, including at the base of crop plants such as			
			Nesting habitat	ground nesting bees with sandy	SGNBSandy	Double	5-19.9% of parcel/site with sandy to sandy loam soil	0.3	squash. They are usually in marginal areas such as ditch			
				soil			< 5% of parcel/site with sandy to sandy loam soil	0.1	banks or track sides, and frequently can be found close to			
				Untilled sites for ground nesting bees	USGNB	Double	0.1 point for every 10% of area untilled on parcel/site or ranch	0-1.0	buildings or other structures.			
				Non- compacted or excavated soil	NcES	Double	Areas with bare but compacted soil, or excavated soil (absent = 0, present = 0.3)	0 or 0.3				
				Dead nesting	DNH	Double	5+ dead wood, brush piles, snags present, or piles of field stones	0.5	The great majority of wood- or cavity- nesting bees do not			
				habitat		Double	2 - 4 dead wood, brush piles, snags present, or piles of field stones	0.3	excavate their own nest; they occupy pre-existing tunnels			

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							0 - 1 dead wood, brush piles, snags present, or piles of field stones	0	or cavities in snags, the center of pithy- stemmed shrubs, and			
							>20 plants that are shrubs or trees with pithy twigs (elderberry, cane fruit, sumac, etc.)	0.5	in brush piles. Bumble bees frequently nest in abandoned rodent			
				Pithy twigs	РТ	Double	5 - 20 plants that are shrubs or trees with pithy twigs (elderberry, cane fruit, sumac, etc.)	0.3	burrows or under clump-forming bunch grasses.			
							<5 plants that are shrubs or trees with pithy twigs (elderberry, cane fruit, sumac, etc.)	0				
							>20% area of undisturbed native bunch grasses (clump- forming)	0.5				
				Undisturbed native bunch grasses	UNBG	Double	5-19.9% area of undisturbed native bunch grasses (clump- forming)	0.3				
							<5% area of undisturbed native bunch grasses (clump- forming)	0				
				Artificial nesting sites	ANSites	Double	The site contains beehives or butterfly boxes (absent = 0, present = 1.0)	0 or 1	Additional man- made pollinator nesting habitat.			
			Management practices				No use of pesticides and insecticides. Buffer composed of trees and/or shrubs de- signed to capture drift and not pollinator attractive	4				
				Pesticide and insecticide use	PestIn	Double	Use of organic pesticides and insecticides. Buffer composed of trees and/or shrubs de- signed to capture drift and not pollinator attractive	3	Management practices should not include heavy uses of chemical pesticides, insecticides, herbicides, etc			
				use			Moderate use of pesticides and insecticides (no greater than 10% of crop area). Buffer composed of trees and/or shrubs de- signed to capture drift and not pollinator	2	incrosofices, etc.			

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							attractive. Sprayed only					
							at inght					
							pesticides and					
							insecticides (no greater					
							than 10% of crop area).					
							trees and/or shrubs de-	1				
							signed to capture drift					
							and not pollinator					
							at night.					
							None of the above are	0				
							in place	0				

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ParcelU WID	Name	Day	Date	Time	Weather	Temp	NCV eg	DomV egT	Habi tat	Feat Me	Fea tB	Fea tH	Feat FC	Feat W	NCFor age	SpBlo om	SuBlo om	FaBlo om	SGN BS	SGNBS andy	USG NB	Nc ES	DN P H T	UN BG	ANSi tes	Pes tln

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