# CITIZEN SCIENCE MONITORING DATASHEET: BUTTERFLIES

# STEP 1—Photocopy or print copies of this datasheet in advance (www.xerces.org/csmdatasheets)

-				C:.			
•	-	u		—Site		IDTAIL	ıc
<b>.</b>	-		_	שונכ	$\boldsymbol{L}$	יכנמו	ıs

SITE NAME:	DATE: _	
PRIMARY OBSERVER:	DATA RECORDER: _	
OTHER OBSERVERS	_	

## **STEP 3**—Monitoring

Note the start time and weather conditions for each transect. Set timer and hit start when ready. Note any butterflies you see and can identify to your confidence level. Walk each transect at a consistent pace. Remember to note end time and weather conditions after completing each transect.

### **BUTTERFLY MORPHOGROUPS:**

Grass skipper Blue Checkerspot/ crescent Other brush-foot (i.e., monarch)

Spreadwing skipper Comma Satyr (e.g., nymph, ringlet)

Whites & orange-tip Hairstreak Fritillary Tortoiseshell

Sulphur Metalmark (uncommon) Lady/ admiral Swallowtail/ parnassian

#### **WEATHER CONDITIONS & OBSERVATIONS:**

Important: Observe, identify and note the butterflies within 0–5 meters on either side of your route. Do not count butterflies that fly in from behind to avoid possibly counting the same individual twice.

TRANSECT 1			TRANSECT 2		TRANSECT 3		TRANSECT 4	
	START END		START	END	START	END	START	END
TIME:								
SHADE TEMP:	oC / 0F	°C/°F	°C / °F	°C/°F	°C/°F	°C/°F	°C / °F	°C / °F
WIND*: (circle one)		0 мрн / 1–3 мрн 4–6 мрн / 7–10 мрн	0 мрн / 1–3 мрн 4–6 мрн / 7–10 мрн	0 мрн / 1-3 мрн 4-6 мрн / 7-10 мрн	0 мрн / 1–3 мрн 4–6 мрн / 7–10 мрн	0 мрн / 1–3 мрн 4–6 мрн / 7–10 мрн	0 мрн / 1–3 мрн 4–6 мрн / 7–10 мрн	0 мрн / 1—3 мрн 4—6 мрн / 7—10 мрн
SKY: (circle one)	nartiv cioudy	clear partly cloudy bright overcast						

<sup>\*</sup>Use the Beaufort Wind Scale to estimate wind speed (see Butterfly Monitoring Protocol for details)

	#	TRANSECT 1	TRANSECT 2	TRANSECT 3	TRANSECT 4
ED	1				
OBSERVED	2				
	3				
SPECIES	4				
UP or	5				
MORPHOGROUP	6				
ORPHO	7				
W	8				

# **STEP 3**—Monitoring, continued

### **BUTTERFLY MORPHOGROUPS:**

Grass skipper Blue Checkerspot/ crescent Other brush-foot (i.e., monarch)

Spreadwing skipper Copper Comma Satyr (e.g., nymph, ringlet)

Whites & orange-tip Hairstreak Fritillary Tortoiseshell

Sulphur Metalmark (uncommon) Lady/ admiral Swallowtail/ parnassian

OBSERVATIONS, continued: (attach any Additional Monitoring Sheet(s) if necessary, available at: www.xerces.org/csmdatasheets)

		TRANSECT 1	TRANSECT 2	TRANSECT 3	TRANSECT 4
	9				
	10				
E	11				
OBSERVED	12				
ES OB	13				
MORPHOGROUP OR SPECIES	14				
UP OR	15				
OGRO	16				
)RPH(	17				
W	18				
	19				
	20				

# **STEP 4**—Field notes, including:

- · Information on the plant community, such as invasive plants, available host and nectar plants, or conifer encroachment;
- Threats to the site or butterfly resources, which may include the presence of livestock, other people, or another species;
- General site conditions, including habitat changes or land management practices;

on details, such as unu		form, etc.	



# CITIZEN SCIENCE MONITORING DATASHEET: BUTTERFLIES

# STEP 1—Photocopy or print copies of this datasheet in advance (www.xerces.org/csmdatasheets)

## **STEP 2**—Site Details

SITE NAME: Johnson Creek Corridor	DATE: July 30, 2015	
PRIMARY OBSERVER: Candace Fallon	DATA RECORDER: Michelle Blackburn	
OTHER OBSERVERS:		

## **STEP 3**—Monitoring

Note the start time and weather conditions for each transect. Set timer and hit start when ready. Note any butterflies you see and can identify to your confidence level. Walk each transect at a consistent pace. Remember to note end time and weather conditions after completing each transect.

## **BUTTERFLY MORPHOGROUPS:**

Grass skipper Blue Checkerspot/ crescent Other brush-foot (i.e., monarch) Spreadwing skipper Copper Comma Satyr (e.g., nymph, ringlet) Tortoiseshell

Whites & orange-tip Hairstreak Fritillary

Sulphur Metalmark (uncommon) Lady/ admiral Swallowtail/ parnassian

#### **WEATHER CONDITIONS & OBSERVATIONS:**

Important: Observe, identify and note the butterflies within 0-5 meters on either side of your route. Do not count butterflies that fly in from behind to avoid possibly counting the same individual twice.

	TRANSECT 1			TRANSECT 2		TRANSECT 3		TRANSECT 4	
	START END		START	END	START END		START	END	
TIME:	10:02 am	10:26 am	10:43 am	11:01 am	11:35 am	11:52 am	1:00 pm	1:17 pm	
SHADE TEMP:	- ac (6-)	72 °C/ੴ	74 °C ∕ੴ	75 °C ∕ <b>⊕</b>	76 °C/ੴ	78 °C/€F	84 ℃.ᠿ	84 ℃/€	
WIND*: (circle one)	0 MPH) 1-3 MPH ( 4-6 MPH / 7-10 MPH	0 мру / 1-3 мрн 4-6 мрн / 7-10 мрн	0 MPH 1-3 MPH 4-6 MPH / 7-10 MPH	0 MPH 1-3 MPH 4-6 MPH / 7-10 MPH	0 MPH) 1-3 MPH 4-6 MPH / 7-10 MPH	0 MPH / (-3 MPH) 4-6 MPH / 7-10 MPH	0 MPH / 1-3 MPH 4-6 MPH 7-10 MPH	0 MPR / 1-3 MPH 4-6 MPH / 7-10 MPH	
SKY: (circle one)	nartiv cioudy	clear partly cloudy bright overcast							

<sup>\*</sup>Use the Beaufort Wind Scale to estimate wind speed (see Butterfly Monitoring Protocol for details)

	# TRANSECT 1		TRANSECT 2	TRANSECT 3	TRANSECT 4	
ED	1	swallowtail (	red admiral	Cab. white (puddling)	purple copper IM	
SSERVED	2	skippers IIII	lady (western?)	sulphurs (puddling) 1111 1111	skippers III	
IES OB	3	grey hairstreak	skippers III	skippers (puddling)	silver-spot skipper	
SPECIES	4	eastern-tailed blue (	grey hairstreak	swallowtails (puddling) IM	small blue (	
UP or	5	purple copper III	Sara orange-tip		cabbage white	
OGRO	6		comma		swallowtail (	
MORPHOGROUP	7					
W	8					



### **BUTTERFLY MORPHOGROUPS:**

Grass skipper Blue Checkerspot/ crescent Other brush-foot (i.e., monarch)

Spreadwing skipper Comma Satyr (e.g., nymph, ringlet) Copper

Fritillary Whites & orange-tip Hairstreak Tortoiseshell

Metalmark (uncommon) Lady/ admiral Swallowtail/ parnassian Sulphur

**OBSERVATIONS**, continued: (attach any Additional Monitoring Sheet(s) if necessary, available at: www.xerces.org/csmdatasheets)

		TRANSECT 1	TRANSECT 2	TRANSECT 3	TRANSECT 4
	9				
	10				
ED	11				
OBSERVED	12				
	13				
SPECIES	14				
UP or	15				
MORPHOGROUP OR	16				
)RPH(	17				
W	18				
	19				
	20				

# **STEP 4**—Field notes, including:

- Information on the plant community, such as invasive plants, available host and nectar plants, or conifer encroachment;
- Threats to the site or butterfly resources, which may include the presence of livestock, other people, or another species;
- General site conditions, including habitat changes or land management practices;

Butterfly population details, such as unusual behavior, additional butterfly species not listed on form, etc.
Johnson Creek Corridor habitat restoration in progress, some paths unavailable.
Transect 1 has some slight weedy forb encroachment.
Observed numerous groups mud-puddling in transect 3.
Took a break between transects 3 and 4 for lunch.