

PLOT DESCRIPTION Side 1

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Update specific sections at each visit

Plot ID:			Observers	
<i>If random: (CA-Block#-SP#) If Non-Random: (initials-YYMMDD-Site#)</i>				
Date	Start time	End time		
Notes:				

FIRST VISIT ONLY			
Adjacent Site Type <i>(within 100m of Monitoring Plot)</i>		Habitat Size Estimate	
<input type="checkbox"/> AGC <input type="checkbox"/> AGE <input type="checkbox"/> DEV <input type="checkbox"/> UGS <input type="checkbox"/> ROW <input type="checkbox"/> UWL <input type="checkbox"/> PAG <input type="checkbox"/> PAE <input type="checkbox"/> PGS <input type="checkbox"/> PWL <input type="checkbox"/> FOE <input type="checkbox"/> FOD <input type="checkbox"/> FOM <input type="checkbox"/> OEW <input type="checkbox"/> BLD		Number of 1 ha plots: <input type="text"/> or Approximate size (ha): <input type="text"/>	
Information Specific to these Site Types			
Rights-of-Way (ROW) sites		Agriculture (AGC) sites	
Row type	If Roadside, select road type	AGC type	Row crop, record crop type:
<input type="checkbox"/> Roadside <input type="checkbox"/> Railway <input type="checkbox"/> Power line	<input type="checkbox"/> Unpaved (gravel/dirt) <input type="checkbox"/> Paved (2 lanes) <input type="checkbox"/> Medium highway (4 lanes) <input type="checkbox"/> Large highway (> 4 lanes)	<input type="checkbox"/> Row crop <input type="checkbox"/> Orchard <input type="checkbox"/> Tree farm <input type="checkbox"/> Vineyard	

NOTE: Submit a new Site Description form for each visit to update the following sections.

Disturbances <i>(must affect vegetation on ≥ 10% of the site)</i>			
Disturbance Type Codes	Code	% Disturbed <i>(nearest 10%)</i>	"If Other*" list disturbance
1 No Disturbance	6a Grazed-cattle		
2 Mowed	6b Grazed-sheep		
3a Hayed-residual remains	6c Grazed-horses		
3b Hayed-hay removed	6d Grazed-other*		
4a Chem-fertilizer	6e Grazed-unknown		
4b Chem-herbicide	7a Burned-wildfire		
4c Chem-insecticide	7b Burned-prescribed		
4d Chem-other*	7c Burned-unknown		
4e Chem-unknown	8 Plowed or disked		
5a Construction-structure	9 Flooded		
5b Construction-road	10 Tree / woody plant removal		
5c Construction-trail	11 Other*		
5d Construction-other*			



MISCELLANEOUS MONARCH OBSERVATIONS

Tally for each observed. List associated plant species and assign them to each tallied count above.
For dead individuals, tally them between parenthesis ()

Adults	Immature stages*
Flying	Egg
Mating	L1
Nectaring*	L2
Ovipositing*	L3
Puddling	L4
Resting	L5
Roosting*	Chrysalis

*List Associated Species

a.
b.
c.
d.
e.
f.
g.
h.

PLOT DESCRIPTION Side 2

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Vegetation Structure in the Plot		% Cover					
Woody Plants	Dominant species	0	1-10	11-25	26-50	51-75	76 +
Conifer Trees <i>Needle and cone-bearing trees.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deciduous Trees <i>Broad-leaf bearing trees generally composed of a single trunk.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shrubs <i>Persistent woody plants shorter than 8 m and composed of multiple trunks with dense foliage.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Herbaceous Plants		0	1-10	11-25	26-50	51-75	76 +
Forbs <i>Non-grass, herbaceous flowering plants.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grami-noids <i>Herbaceous plants with grass-like morphology, including grass, sedges, and rushes.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Wetland Features in the Plot	% Cover					
	0	1-10	11-25	26-50	51-75	76 +
Peatland <i>Moss-dominated wetland that may include isolated and stunted trees (includes bogs and fens).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marshes <i>They are characterized by an emergent vegetation of reeds, rushes, or sedges and the absence of woody vegetation.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swamps <i>The vegetation may consist of dense coniferous or deciduous forest, or tall shrub thickets.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shallow Open Water <i>Free of emergent vegetation, but floating, rooted, aquatic macrophytes may be present.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ditches <i>Human-built linear depression for water conveyance. The vegetation may consist of cattails and other reeds.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Plot Description Notes (e.g., additional information about site conditions or access):

MISCELLANEOUS MONARCH OBSERVATIONS

Tally for each observed. List associated plant species and assign them to each tallied count above.
For dead individuals, tally them between parenthesis ()

Adults	Immature stages*
Flying	Egg
Mating	L1
Nectaring*	L2
Ovipositing*	L3
Puddling	L4
Resting	L5
Roosting*	Chrysalis

*List Associated Species

- a.
- b.
- c.
- d.
- e.
- f.
- g.
- h.

CONSERVATION SITE PROJECT DESCRIPTION

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Only if the sampling site is managed for conservation (See Monitoring plot Setup form)*

Plot ID: <i>If random: (CA-Block#-SP#) If Non-Random: (initials-YYMMDD-Site#)</i>			Observers	
Date	Start time	End time		

Conservation Site Project Information (Consult Land Manager as needed to complete this section.)

Is the plot area managed for conservation? Yes No Unknown

If yes, what year did conservation management begin at the site?: _____

Is the plot area scheduled for management in the future? Yes No Unknown

If yes to either above, have the appropriate site manager or survey coordinator complete the section below.

Project Type	<input type="checkbox"/> General Resource Management <input type="checkbox"/> General Wildlife Habitat <input type="checkbox"/> Pollinator Planting <input type="checkbox"/> For Monarchs <input type="checkbox"/> Other: _____
Conservation Program	Public: <input type="checkbox"/> Federal <input type="checkbox"/> Provincial <input type="checkbox"/> Regional/Local Private: <input type="checkbox"/> by NGO <input type="checkbox"/> by Owner <input type="checkbox"/> Other: _____

Management History <i>List any management actions that have been conducted within the plot and the most recent date per action (if known).</i>	Select all that apply <i>(if applied to ≥10% of plot)</i>	YYYY/MM Last Used <i>(Date/approx if known)</i>	Notes <i>(if "Other*", list management history or record any additional information about present or past site management)</i>
	<input type="checkbox"/> Hydrologic alteration		
	<input type="checkbox"/> Whole tree removal		
	<input type="checkbox"/> Native seeding		
	<input type="checkbox"/> Native plugs planted		
	<input type="checkbox"/> Herbaceous removal/herbicide		
	<input type="checkbox"/> Brush control/woody removal		
	<input type="checkbox"/> Prescribed fire		
	<input type="checkbox"/> Conservation mowing		
	<input type="checkbox"/> Conservation grazing		
	<input type="checkbox"/> Other*		
	<input type="checkbox"/> None		
	<input type="checkbox"/> Unknown		

Previous Land Use

Agriculture (specify): _____

Pasture Remnant prairie Natural area Development Lawn / turf

Other: _____

MISCELLANEOUS MONARCH OBSERVATIONS

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Flying	Egg
Mating	L1
Nectaring*	L2
Ovipositing*	L3
Puddling	L4
Resting	L5
Roosting*	Chrysalis

*List Associated Species

-
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ACTIVITY 1 - OPTION A MILKWEED AND BLOOMING PLANT SURVEY Side 1

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Plot ID:			Observers		
<hr/>			<hr/>		
<i>If random: (CA-Block#-SP#) If Non-Random: (initials-YYMMDD-Site#)</i>			<hr/>		
Date	Start time	End time	<hr/>		
<hr/>	<hr/>	<hr/>	<hr/>		

Notes:

Blooming plants
Record sampling frame section (A, B or C)

Subplot number 1-25																									
Blooming plant species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Subplot number 26-50																									
Blooming plant species	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

MISCELLANEOUS MONARCH OBSERVATIONS

Tally for each observed. List associated plant species and assign them to each tallied count above.
For dead individuals, tally them between parenthesis ()

Adults	Immature stages*
Flying	Egg
Mating	L1
Nectaring*	L2
Ovipositing*	L3
Puddling	L4
Resting	L5
Roosting*	Chrysalis

*List Associated Species

- a.
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ACTIVITY 1 - OPTION A

MILKWEED AND BLOOMING PLANT SURVEY Side 2

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Milkweed plants		
Subplot #	Milkweed species	Nb of stems

Milkweed plants		
Subplot #	Milkweed species	Nb of stems

MISCELLANEOUS MONARCH OBSERVATIONS

Tally for each observed. List associated plant species and assign them to each tallied count above.
For dead individuals, tally them between parenthesis ()

Adults	Immature stages*
Flying	Egg
Mating	L1
Nectaring*	L2
Ovipositing*	L3
Puddling	L4
Resting	L5
Roosting*	Chrysalis

- *List Associated Species**
- a.
 - b.
 - c.
 - d.
 - e.
 - f.
 - g.
 - h.

ACTIVITY 1 - OPTION B MILKWEED AND BLOOMING PLANT SURVEY Side 1

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Plot ID:			Observers		
<i>If random: (CA-Block#-SP#) If Non-Random: (initials-YYMMDD-Site#)</i>					
Date	Start time	End time			

Notes:

Presence of blooming plants
Record sampling frame section (A, B or C) ou inscrivez X s'il n'y a aucune plante en fleurs

Subplot number 1-25																								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Subplot number 26-50																								
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

Milkweed plants		
Subplot #	Milkweed species	Nb of stems

Milkweed plants		
Subplot #	Milkweed species	Nb of stems

MISCELLANEOUS MONARCH OBSERVATIONS

Tally for each observed. List associated plant species and assign them to each tallied count above.
For dead individuals, tally them between parenthesis ()

Adults	Immature stages*
Flying	Egg
Mating	L1
Nectaring*	L2
Ovipositing*	L3
Puddling	L4
Resting	L5
Roosting*	Chrysalis

- *List Associated Species**
- a.
 - b.
 - c.
 - d.
 - e.
 - f.
 - g.
 - h.

ACTIVITY 2 IMMATURE MONARCH SURVEY

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Plot ID: _____
If random: (CA-Block#-SP#) If Non-Random: (initials-YYMMDD-Site#)

Date	Start time	End time

Observers

Notes:

Sampling option

A (every milkweed)
 B (all milkweed along A1 transect)
 C (systematic subset along A1 transect)

Monarch Immature Stages Observations

Milkweed species: _____
(Use one form per milkweed species)

Stems with 0 immature monarch stages <i>Tally below</i>	Milkweed stems with presence of imature monarchs <i>Each box represent a single stem. Tally each stage observation from a single stem in a single box. For dead individuals, tally them between parenthesis ().</i>							
	E Egg	L1 1st instar	L2 2nd instar	L3 3rd instar	L4 4th instar	L5 5th instar	UL Unkwnon instar	Ch Chrysalis

MISCELLANEOUS MONARCH OBSERVATIONS

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For dead individuals, tally them between parenthesis ()

Adults	Immature stages*
Flying	Egg
Mating	L1
Nectaring*	L2
Ovipositing*	L3
Puddling	L4
Resting	L5
Roosting*	Chrysalis

*List Associated Species

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- h.

ACTIVITY 3 ADULT MONARCH SURVEY Side 1

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Plot ID:			Observers		
<i>If random: (CA-Block#-SP#) If Non-Random: (initials-YYMMDD-Site#)</i>					
Date	Start time	End time			

Notes:

Transect Length	Weather conditions	
_____ m	Temp: _____ °C	Precipitation <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>Walk survey route at a constant slow pace of one metre per three seconds.</i>	<i>(If below 16 °C, do not survey)</i>	<i>(If Yes, do not survey)</i>

Wind	Sky
<ul style="list-style-type: none"> 0 < 1 km/h (smoke rises vertically) 1 1-5 km/h (wind direction shown by smoke drift) 2 6-11 km/h (wind felt on face; leaves rustle) 3 12-19 km/h (leaves/twigs in motion) 4 20-28 km/h (raises dust/loose paper) 5 29-38 km/h (small trees in leaf sway) 6 39-49 km/h (large branches in motion) 	<ul style="list-style-type: none"> 0 Clear/few clouds 1 Partly cloudy/variable sky 2 Cloudy/overcast 3 Fog or smoke
Wind code <input type="text"/> <i>(If wind speed code is 6 or higher, do not survey)</i>	Sky code <input type="text"/>

Monarch Butterfly Observations and Behaviour

F Flying M Mating *N Nectaring *O Ovipositing P Puddling Re Resting *Ro Roosting * Note associated species

Ind. #	F	M	*N	*O	P	Re	*Ro	Associated Species
1								
2								
3								
4								
5								
6								
7								
8								

Continued →

MISCELLANEOUS MONARCH OBSERVATIONS

Tally for each observed. List associated plant species and assign them to each tallied count above.
For dead individuals, tally them between parenthesis ()

Adults	Immature stages*
Flying	Egg
Mating	L1
Nectaring*	L2
Ovipositing*	L3
Puddling	L4
Resting	L5
Roosting*	Chrysalis

*List Associated Species

- a.
- b.
- c.
- d.
- e.
- f.
- g.
- h.

ACTIVITY 3 ADULT MONARCH SURVEY Side 2

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Monarch Butterfly Observations and Behaviour								
F Flying M Mating *N Nectaring *O Ovipositing P Puddling Re Resting *Ro Roosting * <i>Note associated species</i>								
Ind. #	F	M	*N	*O	P	Re	*Ro	Associated Species
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
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28								
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30								
31								
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33								
34								
35								
36								
37								
38								

MISCELLANEOUS MONARCH OBSERVATIONS

Tally for each observed. List associated plant species and assign them to each tallied count above.

For dead individuals, tally them between parenthesis ()

Adults	Immature stages*
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Mating	L1
Nectaring*	L2
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